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PROFIX® CATALOGUE 2019

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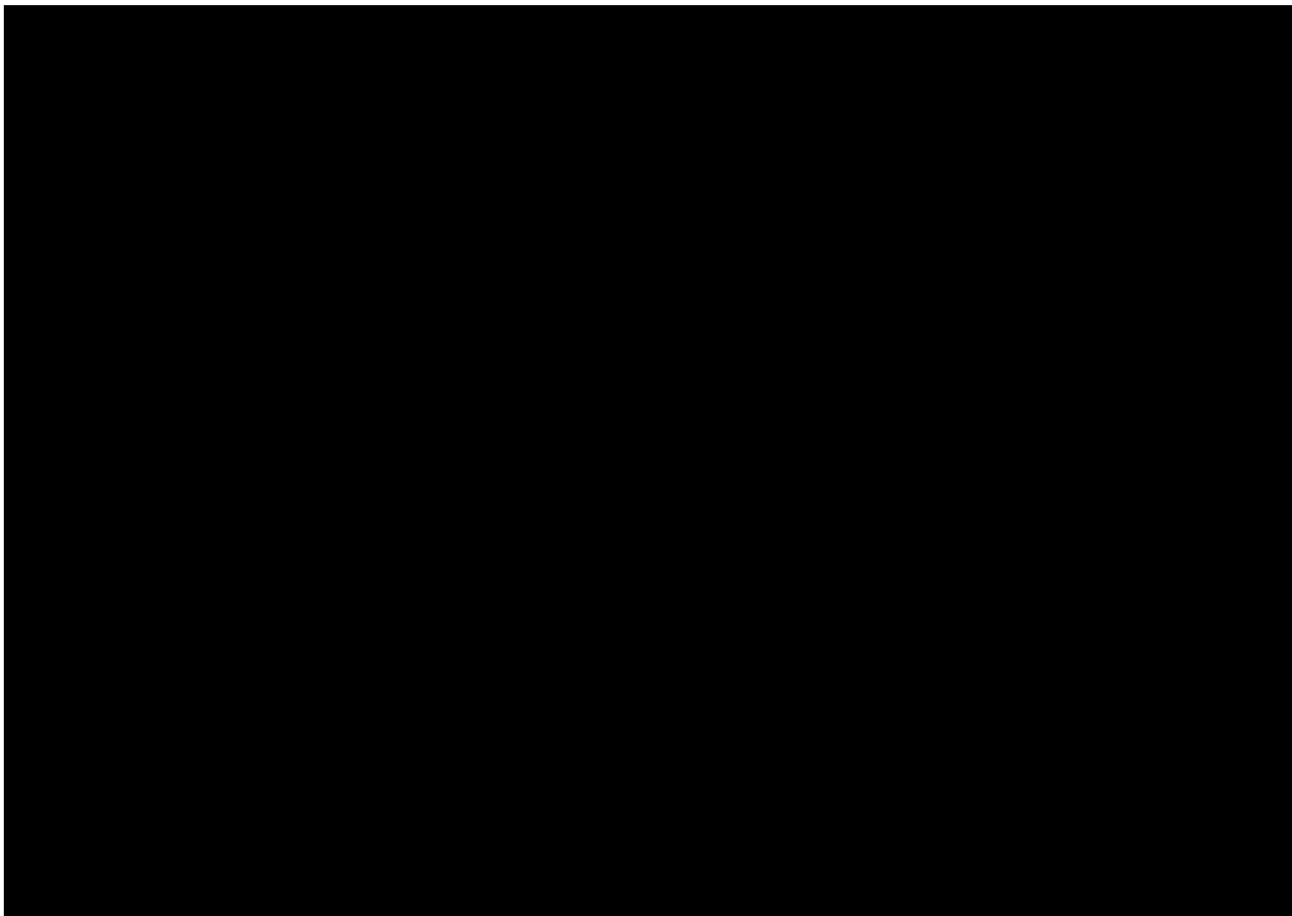
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CATALOGUE

PROFIX®



2019



It is with great satisfaction that we provide you with the next edition of our product catalogue. We have expanded our offer with new product ranges of hand tools, power tools, as well as personal protective equipment. Our offer currently includes over 20,000 top quality products.

This wealth of options and their diversity guarantee that every user will find products that meet their individual expectations. With them work is easy and safe, and professional duties become more pleasant and more efficient.

The huge expansion of our range is not the only change we have made in our company. In July 2018, we completed the first stage of the our Logistics Centre expansion. We now have nearly 20,000 m2 of warehouse and office space at our disposal. During the investment, we have significantly expanded and supplemented the service facilities, the R&D department and the quality control department. Over the coming years this will allow us to dynamically expand our product range and the offered services, with such options as post-warranty repairs or comprehensive brand labeling for clothing using a wide range of techniques.

By providing you with our new catalog, we hope that it will help you in your everyday work and contribute to further development of cooperation with Profix.

Profix management



С большим удовлетворением мы передаем Вам очередное издание нашего каталога изделий. Предлагаемый нами ассортимент мы разнообразили новыми линиями ручных инструментов, электроинструментов, а также средств индивидуальной защиты. В настоящее время наше торговое предложение включает в себя уже свыше 20 000 продуктов наивысшего качества.

Его богатство и вместе с тем разнообразие гарантирует то, что каждый пользователь найдет в нем продукты, которые удовлетворят его индивидуальные ожидания. Позволят удобно и безопасно работать, а выполнение профессиональных обязанностей сделают более приятным и эффективным.

Интенсивное расширение ассортимента - не единственное изменение, которое мы провели в нашей компании. В июле 2018 года мы завершили первый этап расширения Центра Логистики. В настоящее время общая площадь складских и офисных помещений, которой мы располагаем, составляет около 20 000 м2. В ходе инвестиции мы значительно расширили и дооснастили сервисную базу, отдел испытаний и развития, а также отдел контроля качества. Это позволит нам в перспективе последующих лет динамично расширять спектр предлагаемых изделий и услуг, в частности, послегарантийного ремонта, комплексной рекламной маркировки одежды, выполняемой в широком спектре техник.

Передавая Вам наш каталог, мы надеемся, что он поможет Вам в Вашей каждодневной работе и станет импульсом к дальнейшему развитию сотрудничества с компанией Profix.

Правление Profix

Mit echter Zufriedenheit übergeben wir Ihnen die nächste Ausgabe unseres Produktkatalogs. Wir haben unser Angebot um neue Produktlinien für Handwerkzeuge, Elektrowerkzeuge und persönliche Schutzausrüstung erweitert. Derzeit umfasst unser Angebot über 20.000 Produkte von höchster Qualität.Sein Reichtum und seine Vielfalt garantieren gleichzeitig, dass jeder Benutzer Produkte findet, die seinen individuellen Erwartungen entsprechen. Sie ermöglichen Ihnen ein bequemes und sicheres Arbeiten und machen die Ausübung professioneller Aufgaben angenehmer und effizienter.

Die enorme Entwicklung des Sortiments ist nicht die einzige Änderung, die wir in unserem Unternehmen vorgenommen haben. Im Juli 2018 haben wir die erste Ausbaustufe des Logistikzentrums abgeschlossen. Derzeit stehen uns insgesamt 20.000 m2 Lager- und Bürofläche zur Verfügung. Während der Investition haben wir die Serviceeinrichtungen, die Forschungs- und Entwicklungsabteilung und die Qualitätskontrollabteilung erheblich erweitert und ergänzt. Dies ermöglicht es uns, das Spektrum der angebotenen Produkte im Hinblick auf die folgenden Jahre sowie die angebotenen Dienstleistungen wie Reparaturen nach der Garantiezeit oder umfassende Werbekennzeichnung von Bekleidung für eine Vielzahl von Techniken dynamisch zu erweitern.

Wir hoffen, dass wir Ihnen mit unserem neuen Katalog hilfreiche Arbeit leisten und zur Weiterentwicklung der Zusammenarbeit mit Profix beitragen werden.

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Pictograms | Пиктограммы | Piktogramme

PROFIX

Standards, certificates | Атесты, сертификаты | Bescheinigungen, Zertifikate

DIN 3113	According to DIN standards with a given number	Соответствует норме DIN с номером нормы	Entspricht der DIN-Norm mit der angegebenen Nummer
HC-Norm 454-3-1	According to norm with a given number	Соответствует норме под указанным номером	Entspricht der Norm mit der angegebenen Nummer
I	Accuracy class (I, II, III)	Класс точности, может быть I, II, III	Genauigkeitsklasse, kann "I", "II", "III" sein
CE	CE certificated	Имеет обозначение CE	CE-Kennzeichnung
A+	Volatile organic compound [VOC] emission class (very low emission)	Класс эмиссии летучих органических соединений [ЛОС] (очень низкая эмиссия)	Emissionsklasse flüchtiger organischer Verbindungen (VOC) (sehr geringe Emission)
IP44	Protection level	Уровень защиты	Schutzart / Dichtheitsklasse

Packing | Упаковка | Verpackungen

	Card or wallet	Карта или блистер	Karte oder Etui
BOX	Individual box	Индивидуальная упаковка	Einzelbox
BOX	Plastic box with hanger	Пластиковая коробка с петлей	Plastikbox mit Anhänger
	Box with hanger	Коробка с петлей	Box mit Anhänger
	Box quantity	Общая упаковка	Sammelverpackung

Measurements | Размеры | Messung

62mm	Blade length	Длина лезвия	Klingenlänge
0,65mm	Blade width	Высота лезвия	Klingenstärke
14x100mm	Product size	Размеры товара	Produktabmessungen
300mm	Product length	Длина товара	Länge des Produkts
13 mm	Tape width	Ширина ленты	Breite des Bands
85mm	Tool width	Ширина инструмента	Werkzeugbreite

max 38mm	Max. range	Максимальный зев	Maximaler Abstand
8mm	Max. bar diameter	Максимальный диаметр	Maximaler Stangendurchmesser
+/- 0,03 mm	Accuracy	Точность	Genauigkeit
SCALE/ SKALA mm/ inch	Scale cm/inches	Шкала см/дюймы	Skala cm/Zoll
U 0-600 ⎓V	Measurement range of DC voltage	Диапазон измерения напряжения постоянного тока	Gleichspannungsmessbereich
U 0-600 ~V	Measurement range of AC voltage	Диапазон измерения напряжения переменного тока	Wechselspannungsmessbereich
I 0-10 ⎓A	Measurement range of current	Диапазон измерения напряжения тока	Stromstärkenmessbereich
R 0-2 MΩ	Measurement range of resistance	Диапазон измерения сопротивления	Widerstandsmessbereich
BUZZER	Acoustic signal	Звуковой сигнал	Tonsignal
22x10,5x24mm	Disc size	Размер диска	Scheibengröße
300ml	Capacity	Объем	Kapazität
225mm	Frame length	Размер тубы	Abmessungen der Kartusche
-30°C ÷ +130°C	Working temperature	Рабочая амплитуда температуры	Arbeitstemperaturbereich
1/4"	Size in inches	Дюймовый размер	Abmessung in Zoll
Ø max. 1,6mm	Max. diameter	Максимальный диаметр	Maximaler Durchmesser
Ø 120mm	Diameter	Диаметр	Durchmesser
Ø 35-140 mm	Diameter range	Диапазон диаметров	Durchmesserbereich
8mm M8	Bolt diameter	Диаметр стержня	Durchmesser der Spindel
Ø 22mm	Bore diameter	Посадочное отверстие	Durchmesser der Zentrier- / Befestigungsöffnung

Ø22,2 mm	Bore diameter	Посадочное отверстие	Durchmesser der Zentrier- / Befesti-gungsöffnung
3/4"	Hose diameter	Диаметр шланга	Schlauchdurchmess-er
1"	Tap diameter	Диаметр присоединения воды	Wasseranschluss-durchmesser
Ø 6-16 mm	Cable diameter ranges	Диапазон диаметров кабеля	Kabeldurchmesser-bereich
3x1,5 mm²	Quantity and thicknnes of cable	Количество и толщина кабелей	Anzahl und Dicke der Drähte
6,0 kg	Weight	Собственный вес	Eigengewicht
15l	Capacity	Объем	Kapazität
28 ml BUTAN	Capacity	Объем	Kapazität
540 mm	Length	Длина	Länge
0,5-5 mm²	Area range	Диапазон поля	Feldbereich
max 0,8mm	Max. thickness	Максимальная толщина	Maximale Dicke
MAX 11mm	Max. thickness	Макс. толщина	Maximale Dicke
1300°C	Temperature	Температура	Temperatur
1850°C	Flame temperature	Температура пламени	Flammentemperatur
2 kW	Power	Мощность	Leistung
140 g/h LPG	Gas usage	Потребление газа	Gasverbrauch
3t	Lifting capacity in tons or kilograms	Потребление газа	Zulässige Tragfähig-keit in (t) oder (kg)
6 TPI	Teeth per inch	Количество зубцов на дюйм	Anzahl der Zähne pro Zoll
24mm 123mm	Wedge size	Размеры клина	Abmessungen des Keils

18-100 mm	Adjustment range	Диапазон регулировки	Einstellbereich
22 :10 AWG 0,5 -6mm²	Cable size	Размер шнура	Kabelgröße
MAX. 2×500 W	Quantity and power of the lamp	Количество и мощность освещения	Menge und Leistung der Beleuchtung
3,2 mm 4,0 mm 4,8 mm 6,0 mm 6,4 mm	Rivet size	Размеры заклёпок	Größen der Nieten
x 15	Number of nozzles	Количество сопел	Düsenanzahl
x 4	Number of sockets	Количество розеток	Anzahl Steckdosen
LED x 13	Number of LED	Количество диод LED	Anzahl LEDs
10/13	Chuck diameter	Диаметр зажима	Griffdurchmesser
10, 11, 12	Number of teeth	Количество зубцов на дюйм	Anzahl der Zähne
17 GAUGES LISTKÓW	Number of feeler gauge leaves	Количество листов щупа	Anzahl der Fühlerleh-renstreifen
TAPER ZBIEŻNY	Type of feeler gauge end	Тип насадки щупа	Art der Fühlerlehren-spitze

Materials | Материал | Material

HRC 44±2	Steel hardness	Твердость стали с представленной характеристикой	Härte von Stahl mit gegebenem Wert
Sk5	Sk5 Japanese steel	Углеродистая сталь	Kohlenstoffreicher Stahl
3Cr13	3Cr13 chrome steel	Хромированная сталь	Chromstahl 3Cr13
HSS	High speed steel	Быстрорежущая сталь	Schnellarbeitsstahl
HSS M2	High-speed machin-ery steel	Быстрорежущая машинная сталь	Maschinen-Schnellar-beitsstahl
HSS TiN	High speed steel - TiN coated	Быстрорежущая сталь покрыта нитридом титана	Schnellarbeitsstahl mit Titannitridbe-schichtung
HSS Co	High speed cobalt steel	Быстрорежущая сталь с кобальтом	Kobalt-Schnellarbe-itsstahl

Pictograms | Пиктограммы | Piktogramme

PROFIX

CARBON	Carbon steel	Графит	Kohlenstoffstahl
HCS	Carbon steel	Углеродистая сталь	Kohlenstoffstahl
Al	Aluminium	Алюминий	Aluminium
65 Mn	Manganese spring steel	Пружинная марганцевая сталь 65	Mangan-Federstahl
Cr	Chrome steel	Хромированная сталь	Chromstahl
CrV	Chrome-vanadium steel	Хромованадиевая сталь	Chrom-Vanadium-Stahl
CrV 6140	Special chrome-vanadium steel 6140	Хромованадиевая сталь 6140	Chrom-Vanadium-Spezialstahl 6140
S2	Special chrome-vanadium steel S2	Хромованадиевая сталь S2	Chrom-Vanadium-Spezialstahl S2
CrMo	Chrome-molybdenum steel	Хромомолибденовая сталь	Chrom-Molybdän-Stahl
CrMo SCM-440	Chrome-molybdenum steel SCM-440	Хромомолибденовая сталь CSM440	Chrom-Molybdän-Stahl SCM-440
Cr-V-Mo	Chrome-vanadium--molybdenum steel	Хром-ванадий-молибденовая сталь	Chrom-Vanadium-Molybdän-Stahl
9Cr2	Chrome steel 9Cr2	Хромованадиевая сталь 9Cr2	Chromstahl 9Cr2
GR15	Steel GR15	Сталь GR15	GR15 Stahl
STAINLESS	Stainless steel	Нержавеющая сталь	Edelstahl
TCT	Tungsten carbide	Карбид вольфрама	Wolframcarbid
METAL	Metal body/guide	Металлический корпус/ направляющая	Metallkörper / Führung
BI-METAL	Bimetal material	биметалл	Bimetall
Zn-Cu	Brass	Латунь	Messing
Cu Fe	Copper coated steel wire	Стальная омеднённая проволока	Verkupferter Stahl-draht

Al-Ti A380	Titanium alloy	Сплав титана	Titanlegierung
ASME	ASME standard steel	Сталь по стандарту ASME	Stahl nach ASME-Standard hergestellt
	Dry wood	Сухая древесина	Trockenes Holz
	Plywood	ДСП	Furniersperrholz
	Laminate	Ламинат	Laminat
	Steel	Сталь	Stahl
	Concrete	Бетон	Beton
GENUINE HICKORY	Hickory handle	Рукоятка из орешника	Handgriff aus Hickoryholz
GRP	Fibreglass reniforced plastic	Усиленный волокном пластик	Faserverstärkter Verbundstoff
FRP	Fiberglass reinforced plastic	Усиленный стекловолокном пластик	Faserverstärkter Kunststoff
PTFE	Politetrafluoroetylen	Полимер тетрафторэтилена	Polytetrafluorethyl-enpolymer
HDPE	High-density poly-ethylene	Полиэтилен высокой плотности	Polyethylen hoher Dichte
PE	Polyethylene	Полиэтилен	Polyethylen
PET	Polyethylene tere-phthalate	Полиэтилентерефталат	Polyethylenterephthalat
PP	Polypropylene	Полипропилен	Polypropylen
PCW	Polyvinyl chloride	Поливинилхлорид	Polyvinylchlorid
ABS PP	Product made of ABS and PP	Товар изготовлен из АБС-пластика и полипропилена	Produkt aus ABS und PP
ABS	ABS plastic	АБС пластик	Kunststoff ABS
RUBBER	Rubber surface	Резиновая поверхность	Gummioberfläche

PES	Polyester	Полиэфир	Polyester
BEZ KLEJU	No adhesive	Без клея	Ohne Klebstoff
SILIKON	No silicone	Не содержит силикона	Ohne Silikon

Functionality | Функциональность | Funktionalität

HEAVY DUTY	Heavy duty	Повышенная прочность	Besonders langlebig
PRO DRIVE	Increased strength of socket wall	Повышенная прочность стенок головки	Erhöhte Stärke der Kappenwand
360°	Rotary element	Крутящий момент	Rotierendes Element
AUTO STOP	AUTO STOP function	Устройство с функцией АВТОСТОП	Das Gerät ist mit AUTO STOP ausgestattet
LASER	Laser welded diamond saws	Лазерная пайка алмазов	Lasergeschweißte Diamantsegmente für den Scheibenkörper
max 80kg	Max. load	Максимальная нагрузка, кг.	Maximale Belastung
60 kg/m²	Maximum acceptable load per surface area	Максимально допустимая нагрузка на поверхность	Maximal zulässige Belastung der Oberfläche
100 kg/m	Maximum acceptable longitudinal load	Максимально допустимая нагрузка по длине	Maximal zulässige Belastung pro Länge
max. 3 kg	Maximum acceptable vertical load	Максимально допустимая вертикальная нагрузка	Maximal zulässige vertikale Belastung
200Nm	Breaking force	Максимальная нагрузка на обрыв	Reißkraft
max 900mm	Max. size of workpiece	Максимальная величина обрабатываемого предмета	Maximale Größe des Werkstücks
MAX 180/180/270mm	Max. size	Макс. Размеры обрабатываемого предмета	Maximale Abmessungen des Werkstücks
min 85 mm	Min. height of saddle	Максимальная высота седла	Minimale Höhe des Sattels
1 +5°C	Use temperature range	Температурный диапазон использования	Bereich der Anwendungstemperaturen
8 YEARS	Size and scope of possible retention of durability	Масштаб и пределы возможного сохранения прочности	Größe und der Bereich der möglichen Festigkeitserhaltung
24 hours	Possible installation time with self-adhesive strip	Примерное время наклеивания на самоклеющуюся ленту	Mögliche Montagezeit auf dem Selbstklebestreifen

PEX AL PEX	Clamping device for pipe joints PEX-AL-PEX	Трубный зажим PEX-AL-PEX	Crimpwerkzeug für PEX-AL-PEX-Rohrverbindungen
PE-RT AL PE-RT	Clamping device for pipe joints PE-RT-AL-PE-RT	Трубный зажим PE-RT-AL-PE-RT	Crimpwerkzeug für PE-RT-AL-PE-RT-Rohrverbindungen
6T 60kN	Clamping force	Зажимная сила	Klemmkraft
U Ø16	Matrix type for clamping device PEX-AL-PEX	Тип матрицы для зажима PEX-AL-PEX	Matrixtyp für PEX-AL-PEX-Crimpzange
0-2 h	Work time	Режим работы	Arbeitsbereich (Zeit)
3-10cm	Recommended cutting range	Рекомендуемая область среза	Empfohlener Schneidbereich
max 22cm	Recommended cutting range	Рекомендуемая область среза	Maximaldurchmesser des zu schneidenden Werkstücks
10-20cm	Recommended cutting range	Рекомендуемая область среза	Empfohlener Schneidbereich
TURBO CUT	3 polished cutting edges	Зубцы с тремя режущими плоскостями	Zähne mit drei Schneidkanten
	Rotor blade	Оборотное лезвие	Rotierende Klinge
min 507 mm max 140 mm	Working range	Рабочий диапазон	Arbeitsbereich
	Changeable teeth - quantity per inch	Непостоянное количество зубцов	Variable Zahndichte
135°	Drill point angle	Угол острия сверла	Spitzenwinkel des Bohrers
	Changeable blade	Сменное лезвие	Austauschbare Klinge
	Serrated jaws	Зубчатая поверхность лезвия	Gezahnte Klinge
x6	6 carbide blades	6 твердосплавных роликов	6 Hartmetallklingen
x9	Number of spanners in the set	Количество ключей в наборе	Anzahl der Schlüssel im Set
x4	Changable bits	Сменные насадки	Austauschbare Spitzen
	Lubrication required	Необходима смазка	Zur Schmierung

Pictograms | Пиктограммы | Piktogramme

PROFIX

Rectangle section	Прямоугольное сечение	Rechteckiger Querschnitt
Half round section	Полукруглое сечение	Halbkreisförmiger Querschnitt
Round section	Круглое сечение	Kreisförmiger Querschnitt
Three square section	Треугольное сечение	Dreieckiger Querschnitt
Square section	Квадратное сечение	Quadratischer Querschnitt
Size and section	Размер и форма в разрезе	Größe und Form des Querschnitts
Soft touch handle	Прорезиненная рукоятка	Griff mit einer weichen, rutschfesten Beschichtung
Ergonomic design	Исключительно удобные	Besonders bequem
For precision work	Исключительно прецизионные	Besonders präzise
External circlip pliers	Для колец Сегера внешние	Für Seeger-Ringe für Rollen
Internal circlip pliers	Для колец Сегера внутренние	Für Seeger-Ringe für Öffnungen
Diamond coated segments	Сегменты покрытые алмазом	Diamantbeschichtete Segmente
M14 threaded fixing	Тип крепления M14	Befestigung M14
M14 threaded fixing	Тип крепления M14	Befestigung M14
Self - adhesive	Тип крепления - на липучку	Klettverschluss-Befestigung
For angle grinder	Для ушм	Für Winkelschleifer
For power drill	Для дрели	Für Bohrer
For cutting aluminium cable	Для резки алюминиевых кабелей	Zum Schneiden von Aluminiumdrähten
For cutting copper cable	Для резки медных кабелей	Zum Schneiden von Kupferdrähten
For aluminium rivets	Для алюминиевых заклепок	Für Aluminiumnieten
For copper rivets	Для медных заклепок	Für Kupfernieten
For stainless steel rivets	Для заклепок из нержавейки	Für Edelstahlnieten
For cutting aluminium pipes	Для резки алюминиевых труб	Zum Schneiden von Aluminiumrohren
For cutting copper pipes	Для резки медных труб	Zum Schneiden von Kupferrohren
For cutting polyethylene pipes	Для резки полиэтиленовых труб	Zum Schneiden von Polyethylenrohren
For cutting polypropylene pipes	Для резки полипропиленовых труб	Zum Schneiden von Polypropylenrohren
For cutting PVC pipes	Для резки труб из ПВХ	Zum Schneiden von PVC-Rohren
Pocket quantity	Количество кармашков	Anzahl der Taschen
Waterproof rubber base	Водонепроницаемое резиновое основание	Wasserdichte Gummibasis
Steel insert reinforcement	Широко открываемый, с усиленными металлическими вставками	Metallversteifungseinsätze
Reinforced frame	Усиленная рама	Verstärkter Rahmen
Toolbag with wheels	С колесами	Tasche mit Rädern
Toolbag with fold away handle	Выдвижная рукоятка	Tasche mit ausziehbarem Griff
Box	Кейс	Truhe
Aluminium box	Алюминиевый кейс	Aluminiumtruhe
Adjustable nozzle	Регуляция сопла	Einstellbare Düse
Mounting holes every 1m	Монтажные отверстия через 1 м	Montageösen alle 1 Meter
Number of teeth	Количество зубцов	Anzahl der Zähne

36T	Number of teeth in a ratchet	Количество зубьев в трещотке	Anzahl der Zähne in der Ratsche
	Ball bearings	Шариковые подшипники	Wälzlager
3:1	Ratio	Планетарная передача	Übersetzung
max 10000 /min	Max. rotation	Максимальные обороты	Maximale Drehzahl Max.
200 W	Power	Мощность	Nennleistung
max 1356 Nm	Maximum torque	Максимальный вращающий момент	Maximales Drehmoment
6,3 bar	Maximum air pressure	Максимальное давление воздуха	Maximaler Luftdruck
144 l/min	Required air flow	Требуется течечние воздуха	Erforderlicher Luftstrom
1,80kg LIGHT WEIGHT	Small weight of device	Небольшая масса устройства	Geringes Gewicht des Gerätes
TWIN HAMMER	Impact mechanism with double hammer clutch	Ударный механизм с двойной молотковой муфтой	Schlagwerk mit Doppelhammerkupplung
141mm COMPACT SIZE	Compact size of device	Компактный размер устройства	Kompakte Größe des Geräts
n₀:7000/min	Rotational speed of device	Скорость вращения устройства	Drehzahl des Geräts
1/4"	Size of threaded connection	Размер резьбы соединительной детали	Gewindegröße des Verbinders
440 mm	Length of pumping hose	Длина шланга для накачивания	Länge des Pumpschlauches
UNIVERSAL	Universal female quick-release-coupling	Быстросъёмный штуцер типа мама универсальный	Universal-Schnellanschluss weiblich
EURO	EURO type male quick-release-coupling	Быстросъёмный штуцер типа папа типа EURO	EURO-Schnellanschluss männlich
CLICK	Quick-release-coupling mounting system	Система крепления с использованием быстрого соединения	Befestigungssystem für Schnellanschlüsse
11 W (80 W)	Working power starting power	Мощность	Leistungsverbrauch in: Ruhe- und Arbeitszustand
PIEZO	Piezo-electric power	Пьезоподжиг	Piezoelektrische Stromversorgung

	Flat screwdriver	Плоский шлиц	Schlitzschrauben-dreher
	Phillips screwdriver	Шлиц Phillips	Phillips-Schrauben-dreher
	Torx screwdriver	Шлиц Torx	Torx-Schrauben-dreher
	Secutity Torx screw-driver	Шлиц Torx с отверстием	Torx-Schraubendre-her mit Loch
	Secutity Torx screw-driver	Шлиц Pozidrive	Pozidriv-Schrauben-dreher
	Hexagonal socket	Шестигранный шлиц (мама)	Innensechskant
	Hexagonal shank	Шестигранный шлиц (папа)	Sechskantspitze
1/4''	1/4" bit socket	Насадка HEX 1/4"	Innensechskant 1/4 "
	Socket holder	Держатель для головок	Knarrenhalter
	Blade for cutting cables	Лезвия для резки кабеля	Kabelschneideklinge
	Adjustment	Регуляция	Einstellung
	Crimping pliers	Щипцы для зажима кабелей	Backen zum Crimpen der Spitzen
	Deburring tip	Наконечник для удаления заусенцов	Spitze zum Entgraten
	Deburring tip	Наконечник для удаления заусенцов	Spitze zum Entgraten
	Magnet	Магнит	Magnet
R7S ø118 mm	Filament type	Тип элемента накаливания	Glühwendeltyp
● 100% ○ 50% ✳ FLASH	Operating mode	Режим работы	Betriebsarten
LED	LED backlight	LED-подсветка	LED-Beleuchtung
Ra ≥ 70	Colour rendering index	Коэффициент цветопередачи	Farbwiedergabeindex

Pictograms | Пиктограммы | Piktogramme

PROFIX

ENERGY CLASS A+	Energy class	Энергетический класс	Energieklasse
4000K	Colour of light	Окраска света	Lichtfarbe
	Movment sensor	Датчик движения	Bewegungsmelder
110°	Angle of lighting	Угол свечения	Leuchtwinkel
Lm 2550	Luminous power	Мощность светового потока	Leistung des Lichtstroms
Li-Ion 6600 mAh	Battery type and capacity	Тип и ёмкость акумулятора	Akku-Typ und -Kapazität
ZOOM	Zoom function - enables focusing and scattering of light beam	Функция ZOOM - концентрация и рассеяние светового пучка	Zoomfunktion - ermöglicht die Konzentrierung und Streuung eines Lichtstrahls
SOS SIGNAL	SOS signal	Сигнал СОС	SOS-Signal
USB RECHARGEABLE BATTERY	USB charging	Зарядка по USB	Aufladen via USB
AL AIRCRAFT GRADE	Product made of special aluminium alloy used in aviation industry	Продукт изготовлен из специального алюминиевого сплава, который используется в авиапромышленности	Das Produkt besteht aus einer speziellen Aluminiumlegierung, die in der Luftfahrtindustrie verwendet wird
LED 3 W	Power of ilumination	Мощность освещения	Leuchtleistung
HIGH POWER	High power ilumination	Освещение высокой мощности	Hochleistungsbeleuchtung
3 x AAA 3 x 1,5V d.c.	Quantity and type of batteries	Тип и количество необходимых батарей	Art und Anzahl der benötigten Batterien
90°	Work at straight angle	Работа под прямым углом	Arbeiten im rechten Winkel
100mm	Length	Длина	Länge
	Connection points	Пункты соединений	Verbindungspunkte
∅ 1,5mm	Spray gun nozzle diameter	Диаметр сопла краскопульта	Durchmesser der Spritzpistolendüse
HP	High-pressure spray gun	Краскопульт высокого давления	Hochdruck-Spritzpistole

HVLP	Low-pressure spray gun	Краскопульт низкого давления	Niederdruck-Spritzpistole
LVMP	Energy-efficient low-pressure spray gun	Краскопульт низкого давления (небольшое использование материала)	Niederdruck-Spritzpistole mit geringem Verbrauch
max 400 RPM	Maximum speed	Максимальные обороты	Maximale Drehzahl
R/L	Left/Right rotation	Обороты лево/право	Links- / Rechtsdrehung
3 m	Cable length	Длина силового кабеля (провода)	Länge des Netzkabels
TOUCH STRIKE SECURITY SYSTEM	Safety catch	Защита от неконтролируемого выстрела	Schutz vor unkontrolliertem Schießen
POWER REGULATOR	Driving power adjustment	Регулировка силы забивания	Einstellung der Einschlagkraft
SAFETY SWITCH	Safety switch	Выключатель безопасности	Sicherheitsschalter
LCD DISPLAY	LCD display	ЖК дисплей	LCD-Display
	LED	Диоды LED	LED-Diode
0,5mm/m	Accuracy of measurement	Уровень точности	Messgenauigkeit
0° 45° 90°	Work at different angles	Возможность работы при разных углах	Möglichkeit, in verschiedenen Winkeln zu arbeiten
	Tripod	Штатив	Stativ
	Rotation head	Плавающая головка	Rotation-Drehkopf
5/8"	5/8 thread	Резьба 5/8	5/8 Gewinde
	Protective googles	Очки защитные	Schutzbrille
	Self leveling	Самовыравнивание	Selbstnivellierung
10 m	Work distance	Расстояние работы	Arbeitsabstand
LASER	Laser pointer	Лазерный указатель	Laserpointer
RUBBER	Rubber handle	Прорезиненная рукоятка	Gummigriff

Scriber with TCT	Углеродистый стержень	Scriber mit Hartmetall
Scriber with TCT	Углеродистый стержень	Hartmetallklinge
Tungsten tip	Товар с вольфрамовыми лезвиями	Produkt mit Wolfram-klingen
Clip	Клипса	Klammer
Hardened shackle	Закаленный корпус	Gehärteter Bügel
Number of keys	Количество ключей	Anzahl der Schlüssel
Welding position	Позиция варки	Schweißposition
Quick hose connector	Коннектор сквозного быстрого соединения	Schneller Durch-gangsstecker
Max sprinkle area	Макс. поверхность полива	Maximale Benet-zungsfläche
Sprinkle angle	Угол полива	Sprühwinkel
Thermal fuse	Термический предохранитель	Thermische Sicherung
Max voltage	Макс. Допустимое напряжение	Maximal zulässige Spannung
Max permissible current with cable retracted	Макс. ток при смотанном кабле	Maximaler Strom mit aufgerolltem Verlän-gerungskabel
1000 V certificated	Допуск до 1000 В	1000 V zertifiziert
Maximum acceptable use voltage	Максимально допустимое рабочее напряжение	Maximal zulässige Anwendungsspan-nung
Maximum acceptable use pressure	Максимально допустимое рабочее давление	Maximal zulässiger Betriebsdruck
Number of cutting edges	Количество режущих кромок	Anzahl der Schneid-kanten
Max diameter	Макс. Диаметр	Maximaler Durchmesser
Minigrinder	Минишлифмашина	Mini-Schleifer
Krypton bulb	Криптоновая лампа	Krypton Glühbirne

MMA/TIG welding type	Вид сварки MMA/TIG	MMA/WIG-Sch-weißart
TIG PULSE function	Функция TIG PULSE	WIG PULSE Funktion
MMA welding	Сварка методом MMA	MMA-Schweißen
ARC FORCE function	Функция ARC FORCE	ARC FORCE Funktion
HOT AIR function	Функция HOT AIR	HOT AIR Funktion
ANTI STICK function	Функция ANTI STICK	ANTI STICK Funktion
Fan function	Функция вентилятора	Lüfterfunktion
MMA electrode	Электрод MMA	MMA-Elektrode
TIG electrode	Электрод TIG	WIG-Elektrode
Use indoor	Использовать внутри помещений	Zur Nutzung in Innen-räumen bestimmt
May be used outdoors, humidity resistant	Можно использовать снаружи, устойчивы к воздействию влаги	Kann im Freien verwendet werden, resistent gegen Feuchtigkeit
May be used outdoors, humidity resistant, UV resistant	Можно использовать снаружи, устойчивы к воздействию влаги, устойчивы к воздействию УФ-лучей	Kann im Freien verwendet werden, resistent gegen Feuchtigkeit und UV-Strahlung
All weather product	Демисезонный товар	Ganzjahresprodukt
For working in the rain	Влагостойкие	Wasserfest
Self-adhesive	Самоклеющийся	Selbstklebend
Spot light	Точечное освещение	Spotbeleuchtung
Flood light	Рассеивающий свет	Streulicht
Dual light	Два вида освещения	Zwei Arten von Beleuchtung
Hook	Крючок	Haken

Pictograms | Пиктограммы | Piktogramme

PROFIX®

For oil paints and lacquers	Для масляных красок и лаков	Für Ölfarben und Lacke
For acrylic, waterborn paints	Для акриловых красок на водной основе	Für wasserverdünnbare Acrylfarben
Percentage share bristles with maximum lenght	Процент щетинок с максимальной длиной	Prozentsatz der Borsten mit maximaler Länge
Durable, permanent ink	Стойкая перманентная тушь	Permanent dauerhafte Tinte
Small bit	Маленькая насадка	Kleine Spitze
Inverter intended for charging batteries of different vehicles	Выпрямитель предназначен для зарядки аккумуляторов транспортных средств разного типа	Gleichrichter zum Laden von Batterien verschiedener Fahrzeuge
Range of Ah batteries, for which the inverter is intended	Диапазон Ач аккумуляторов, для которых предназначен выпрямитель	Ah-Bereich der Akkus, für die der Gleichrichter bestimmt ist
Charging current	Зарядный ток	Ladestrom
12V socket	Гнездо 12В	12V Buchse
Starting aid	Управление запуском	Starthilfe
For various surfaces such as dry wood, steel, concrete	Предназначено для различных поверхностей, в т.ч. сухое дерево, сталь, бетон	Geeignet für verschiedene Oberflächen, u. a. trockenes Holz, Stahl, Beton
Warranty for material deffects	Гарантия на изъяны материала	Garantie für Sachmängel
Ecologically manufactured without solvents and mostly from organic materials	Произведены экологическим способом без использования растворителей, преимущественно из органических материалов	Ökologisch hergestellt, ohne Verwendung von Lösungsmitteln und großteils aus organischen Materialien
Low noise emission during use	Низкий уровень шума, создаваемого изделием при использовании	Niedriger Geräuschpegel, den das Produkt während des Gebrauchs erzeugt
Solvent-free	Без растворителей	Frei von Lösungsmitteln
Sold on spool	Продается на катушке	Auf Spule verkauft
MAximum burst pressure	Максимальное разрывное давление	Maximaler Berstdruck
Torsion resistance	Стойкость к сворачиванию	Torsionswiderstand

UV radiation resistance	Стойкость к УФ излучению	Beständigkeit gegen UV-Strahlen
Algae build-up resistance	Стойкость к осаживанию водорослей	Beständigkeit gegen Algenablagerung
Resistance to high and low temperatures	Стойкость к высоким и низким температурам	Beständigkeit gegen hohe und niedrige Temperaturen
Do not contain cadmium, bar, lead, phthalates	Не содержит кадмия, бария, свинца, фталатов	Frei von Cadmium, Barium, Blei, Phthalaten
Anticipated waiting time	Ожидаемое время ожидания	Voraussichtliche Wartezeit

Power tools | Электроинструменты | Elektrowerkzeuge

Voltage/frequency	Напряжение, частота	Nennspannung / Frequenz
Insulation class II	Инструмент класса II	Klasse II Werkzeug
Cable length	Длина силового кабеля (провода)	Länge des Netzkabels
Case	Кейс	Truhe
Nominal voltage	Номинальное напряжение	Nennspannung
Torque	Вращающий момент	Drehmoment
Rotations left/right	Обороты влево/вправо	Links-/Rechts-Drehung
Drill chuck diameter	Диаметр сверильного патрона	Durchmesser des Bohrfutters
Number of clutch degrees	Количество ступеней муфты	Anzahl der Kupplungsstufen
Rotational speed	Скорость вращения	Drehzahl
Type and number of batteries	Вид и количество	Art und Anzahl der Batterien
Indicative duration of charging battery	Ориентировочное время зарядки аккумулятора	Ungefähre Ladezeit des Akkus
Airflow velocity	Скорость потока воздуха	Die Geschwindigkeit des Luftstroms
Working length	Длина рабочей части	Länge des Arbeitsteils

Spacing of teeth	Расстояние зубьев	Zahnabstand
Maximum wood cutting thickness	Максимальная толщина резки дерева	Maximale Dicke des Holzschnitts
Maximum metal cutting thickness	Максимальная толщина резки металла	Maximale Dicke des Metallschnitts
Circular saw diameter	Диаметр дисковой пилы	Durchmesser der Kreissäge
Laser	Лазер	Laser
Cutting function	Фнкция разрезания	Schneidefunktion
Blade holder type	Тип держателя полотна	Art des Sägeblatthalters
Leg adjustment range	Диапазон регулировки стопы	Fußverstellbereich
Disc mounting-thread M14	Крепление диска-резьба M14	Befestigung der M14-Gewindescheibe

Personal protective equipment | Рабочая одежда
Persönliche Schutzausrüstungen

Product certified by Central Institute for Labour Protection – National Research Institute	Продукт сертифицирован в Центральном институте охраны труда – Государственный исс ледовательский институт	Vom Centralny Instytut Ochrony Pracy – Państwowy Instytut Badawczy (Zentrales Institut für Arbeitsschutz – Staatliches Forschungsinstitut) zertifiziertes Produkt
Composition of material	Состав материала	Materialzusammen-setzung
Product measurements	Размер артикула	Produktabmessungen
Length 130 cm with possibility of reduction	Длина 130 см с возможностью укорочения	Länge 130 cm mit Verkürzungsmöglich-keit
Double, adjustable fixing strap	Двойные регулируемые крепления	Doppelter, verstellbarer Haken
Gloves with inner flock lining	Рукавицы покрыты изнутри флоком (хлопковой пылью)	Innenseite der Handschuhe ist mit Flock bedeckt
Vertical angle adjustment	Регулировка наклона линз	Vertikale Winkeleinstellung
Horizontal length adjustment	Регулировка длины дужек	Längseinstellung der Länge
Reversible	Металлическая сетка	Metallgitter
Steel mesh instead of lenses	Двухсторонний	Doppelseitig

Width regulation	Регулировка ширины	Breitenverstellung
Width adjustment	Вращающийся элемент	Rotierendes Element
Easy-fix system	Система простого крепления	Einfaches Montagesystem
Number of ventilation holes	Количество вентилляционных отверстий	Anzahl der Lüftungsöffnungen
Removable filter in the helmet	Поднимаемый фильтр в передней части	Anhebbarer Filter im Helm
Sensitivity and delay adjustment	Регулировка чувствительности и задержки	Empfindlichkeits- und Verzögerungseinstel-lung
Shade range adjustment	Регулировка области затемнения	Einstellung des Ver-dunkelungsbereichs
Shade range and filter size	Область затемнения и размер фильтра	Verdunkelungsbe-reich und Filtergröße
UV/IR protection	Защита от ультрафиолетового и инфракрасного излучения	UV-/IR-Strahlenschutz
Number of light sensors	Количество датчиков уровня освещения	Anzahl der Belichtungssensoren
Filter test	Тест фильтра	Filtertest
Auto on/off	Автоматическое включение/ выключение	Automatisches Ein- und Ausschalten
Solar battery powered	Питание от солнечной батареи	Versorgung mit Solarbatterie
Lithium battery powered	Питание от литиевой батарейки	Versorgung mit Lithiumbatterie
Headgear adjustment	Регулировка оголовья	Kopfeinstellung
Optical class	Оптический класс	Optische Klasse
Shade range adjustment	Регулировка области затемнения	Einstellung des Ver-dunkelungsbereichs
Sensitivity adjustment	Регулировка чувствительности	Empfindlichkeitsein-stellung
Delay adjustment	Регулировка задержки	Verzögerungseinstel-lung
Protective glass height	Высота защитного экрана	Höhe des Schutzglases

Pictograms | Пиктограммы | Piktogramme

PROFIX

For working in low temperatures	Для работ при низких температурах	Für das Arbeiten bei niedrigen Temperaturen
Reflective material	Светоотражающие элементы	Reflektierendes Material
Reinforced on the palm and fingers	Махровый материал поглощающий пот	Frottee für die Absorption von Schweiß
Reinforced on the palm and fingers	Армирование на захватной части и на пальцах	Verstärkungen am Griffteil und an den Fingern
Non-slip silicone mesh	Силиконовая нескользящая сетка	Rutschfestes Silikon-Netz
Soft pad on the palm	Мягкая подушка на захватной стороне	Weiches Kissen am Griffteil
Reflective elements	Светоотражающие элементы	Reflektierende Elemente
High-visibility material	Материал с высокой видимостью	Material mit hoher Sichtbarkeit
Open fingertip gloves	Перчатки без пальцев	Fingerlose Handschuhe
Anti-vibration gloves	Антивибрационные рукавицы	Anti-Vibrationshand-schuhe
Anti-static gloves	Антистатические перчатки	Antistatische Handschuhe
Highest resistance to blade cutting (resistance level 5)	Самая высокая степень стойкости к разрезанию лезвием	Höchste Schnittfestigkeit
High visibility	Высокая видимость	Hohe Sichtbarkeit
Protection from low temperature (down to -50°C)	Защита от регулировки диапазона тонирования низкой температурой (до -50°C)	Schutz vor Tieftem-peraturregulierung (bis -50 ° C)
Moisture transportation	Влагоотводящий материал	Material, das Feuchtigkeit ableitet
Reflective elements	Световозвращающие элементы	Reflektierende Elemente
Stretch inserts "4-way elastic" extensibility in 4 directions	Вставки из материала "4-way elastic" (растяжимость в 4 направлениях)	Stretcheinsätze "4-way elastic" (Dehnbarkeit in 4 Richtungen)
Ant-slip tape in waist	Противоскользящая лента в поясе	Anti-Rutsch-Band in der Taille

Width adjustment in waist by means of special structure with elastic tape	Регулировка ширины в поясе с помощью специальной конструкциии с эластической лентой	Weitenverstellung in der Taille durch eine spezielle Konstruktion mit Gummizug
Elastic material with stretch	Эластичный материал с добавкой стрейч ткани	Elastisches Material mit Zusatz von Stretch
Protection against electromagnetic radiation	Защита от электромагнитного излучения	Schutz vor elektromagnetischer Strahlung
Pocket quantity	Количество кармашков	Anzahl der Taschen
Knee protector pockets	Карманы для наколенников	Taschen für Knieschützer
Anti pilling	Материал не лохматится	Fusselfreier Stoff
Soft comfort	Мягкий материал	Weiches Material
Ring spun cotton	Хлопок типа ring-spun	Ringspun Baumwolle
Water proof	Водостойкий материал	Wasserdichtes Material
Breathable	Дышащий материал	Atmungsaktives Material
Thermal	Теплостойкий материал	Thermisches Material
Moisture transferring material	Материал, выводящий влагу	Material, das Feuchtigkeit transportiert
Wind breaker	Ветронепроницаемый материал	Winddichtes Material
Water-proof material	Водостойкий материал	Wasserfestes Material
Tear-proof material	Материал стойкий к разрыву	Reißfestes Material
Lightweight material	Ткань небольшого веса	Material mit geringem Gewicht
Made of polyvinyl chloride	Изготовлено из поливинилхлорида	Polyvinylchlorid
Made of latex	Изготовлено из латекса	Aus Latex hergestellt
Made of nitryl	Изготовлено из нитрила	Aus Nitril hergestellt

EVA LATEX TPR	Made of EVA, latex and TPR	Изготовлены из EVA, латекса и TPR	Aus EVA, Latex und TPR
EVA LATEX	Made of EVA and latex	Изготовлены из EVA и латекса	Aus EVA und Latex
PU	Made from polyurethane	Изготовлено из полиуретана	Aus Polyurethan
NON-SLIP SURFACE	Anti-slip finish	Противоскользящая отелка	Rutschfeste Oberfläche
EXTRA THICK ACRYLIC PADDING	Very thick acrylic lining	Очень толстый акриловый утеплитель	Sehr dicke Acrylisolierung
UV	UV filter	Ультрафиолетовый фильтр	UV-Filter
267 g/m²	Weight per meter square	Плотность материала	Materialgewicht
SPF PROTECTIVE FACTOR	Sun protective factor	Солнцезащитный фактор	Blendschutzfilter
F MECHANICAL RESISTANCE	Mechanical durability class	Класс механической стойкости	Mechanische Widerstandsklasse
ANTI-SCRATCH	Scratch resistance	Стойкость к царапинам	Kratzfestigkeit
ANTI-FOG	Misting resistance	Стойкость к запотеванию	Beständigkeit gegen Beschlagen
EXTREME TEMPERATURE RESISTANCE	Guaranteed mechanical resistance from -5°C ±2°C to +55°C ±2°C	Гарантированная механическая стойкость от -5°C ±2°C до +55°C ±2°C	Garantierte mechanische Beständigkeit von -5 ° C ± 2 ° C bis +55 ° C ± 2 ° C
FFP1	Mechanical resistance	Класс защиты	Schutzklasse
CLASS 1	Visibility class	Класс видимости	Sichtbarkeitsklasse
SNR: 28dB	Noise damping index	Коэффициент шумоподавления	Schalldämpfungs-koeffizient
EN 388 2123x	Product in compliance with the EN 388 norm	Соответствует требованиям стандартов EN 388	Das Produkt erfüllt die Anforderungen der Norm EN 388
Kat. I Cat. I	Personal Protective Equipment Cat. I	Средство индивидуальной защиты первой категории (может быть также второй и третьей)	Die erste Kategorie der persönlichen Schutzausrüstung (kann auch zweite und dritte sein)
H W C	H - Height C - Chest size W - Waist size	H - рост C - обхват груди W - обхват бедер	H - Körpergröße C - Brustumfang W - Taillenumfang
	Heel covered up	Закрытая область пятки	Geschlossener Fersenbereich

	Antistatic footwear	Антиэлектростатические свойства	Antistatisches Schuhwerk
	Energy absorption in heel area	Поглощение энергии в пяточной части	Energieaufnahme im Fersenbereich
	Limited permeability and water absorption	Ограниченное пропускание и поглощение воды	Begrenzte Durchläs-sigkeit und Was-seraufnahme
	Resistance to puncture of 1100N, rugged sole	Устойчивость к проколу с силой 1100 н, рифлёная Подошва	Durchschlagfestigkeit von 1100N, robuste Sohle
	Resistance to punc-ture of 1100N	Устойчивость к проколу с силой 1100 н	Durchschlagfestigkeit von 1100N
	Resistant to fuel oil	Устойчивость к дизельному топливу	Beständig gegen Heizöl
SRA	Slip resistance on ceramic surface	Устойчивость к скольжению на керамическом основании	Rutschfestigkeit auf keramischer Oberfläche
SRC	Slip resistance on steel and ceramic surface	Устойчивость к скольжению на керамическом и стальном основании	Rutschfestigkeit auf Stahl- und Keramiko-berfläche
CI	Composite toe cap - protects against impact of energy of 200J	Композитный защитный носок – обеспечивает защиту пальцев ступни от удара с энергией 200 дж	Verbundstoff-Zehen-schutzkappe - schützt vor Energieein-wirkung von 200J
SI	Steel toe cap - pro-tects against impact of energy of 200J	Стальной защитный носок – обеспечивает защиту пальцев ступни от удара с энергией 200 дж	Stahl-Zehenschutz-kappe - schützt vor Energieeinwirkung von 200J
NO TOE CAP	No toe cap	Без подноска	Keine Zehenkappe
METAL FREE	Metal free	Отсутствие металлических элементов	Metallfrei
RUBBER	Rubber sole	Подошва выполнена из резины	Gummisohle
PU/PU	Dual density polyure-thane sole	Подошва изготовлена из двухплотностного Полиуретана	Polyurethansohle mit doppelter Dichte
PU	Homogeneous density polyurethane sole	Подошва изготовлена из однoплотностного Полиуретана	Polyurethan-Sohle mit homogener Dichte
HRO 300°C HEAT RESISTANCE	Sole resistance to high temperature in a short-term contact (up to 300°C/1min)	Стойкость подошвы на воздействие высокой температуры при кратковременном контакте (до 300°C/1мин)	Sohlenbeständigkeit gegen hohe Tempera-tur im Kurzzeitkontakt (bis 300 °C/1min)
	Made of leather	Изготовлены из кожи	Aus Leder

Pictograms | Пиктограммы | Piktogramme

PROFIX

HIGH QUALITY CRAZY HORSE LEATHER	Made of high-quality trekking facing leather "crazy horse"	Изготовлены из высококачественной облицовочной трекинговой кожи „crazy horse"	Aus hochwertigem, Trekking-Vollleder "Crazy Horse"
LEATHER INSOLE LEATHER LINING	Lining and insert made of leather	Подкладка и стелька изготовлены из кожи	Futter und Einlegesohle aus Leder
	Antistatic footwear	Антиэлектростатические свойства	Antielektrostatische Eigenschaften
	Energy absorption in heel area	Поглощение энергии в пяточной части	Energieaufnahme im Fersenteil
	Resistant to fuel oil	Устойчивость к дизельному топливу	Beständigkeit gegen Diesel
	Entire footwear meade of plastic, water-proof	Обувь полностью изготовлена из пластмассы, водостойкая	Gesamtes Schuhwerk aus Kunststoff, wasserdicht
	Heel covered up	Закрытая область пятки	Ferse bedeckt
SRA	Slip resistance on ceramic surface	Устойчивость к скольжению на керамическом основании	Rutschfestigkeit auf Keramikböden
SRC	Slip resistance on ceramin and steel floor	Противоскользящие свойства на керамической и стальной поверхности	Rutschfestigkeit auf Keramik- und Stahlböden
	Rain boots	Непромокаемая обувь	Regenschuhe
HIGH QUALITY TPR	Outsole made from high-quality thermoplastic rubber	Подошва изготовлена из ермостатической резины высокого качества	Sohle aus hochwertigem Thermostatgummi
x10	Sales unit - 10 pairs	Единица продажи - 10 пар	Verkaufseinheit - 10 Paare
x10 PAIRS	Sales unit - 10 pairs	Единица продажи - 10 пар	Verkaufseinheit - 10 Paare

PROFIX®

PROLINE®









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Proline is the most recognisable Polish brand of hand tools*. As many as 75% of those who voted for Proline in the Consumer's Laurel 2018 awards claim they would recommend products from this brand to their friends.

Thanks to such good opinions, Proline tools were awarded the Silver Consumer's Laurel in the hand tools category in 2018 for the second time in a row. What end-users said proves that Proline products make it easier to perform a number of tasks of varying difficulty. They are characterised by their durability and very good, professional-grade quality. It's worth noting that tools under the Proline brand were made available to Polish buyers in 1997 for the first time. The first products were soft-touch screwdrivers. Over the next twenty years, Proline's offer was successfully expanded. Today, it numbers nearly 5000 high-quality products successfully satisfying the tool needs of professionals and all those who independently carry out repairs and upgrades. No other Polish brand of hand tools can boast of such a wide range.

When choosing Proline, the end user gets a product of the highest quality, which means that all kinds of work can be done faster and more conveniently. An owner of a shopping outlet choosing Proline gains access to a wide range, special sales support campaigns, can participate in numerous training options, as well as join the unique Voyager loyalty program.

* According to data collected as part of the 2018 Consumer's Laurel award.



Proline - самая узнаваемая польская марка ручных инструментов*. Не менее 75% участников, которые голосовали за Proline в номинации конкурса «Признание потребителей 2018», утверждают, что порекомендуют продукты этого бренда своим друзьям. Благодаря такому хорошему отзыву, инструменты Proline во второй раз подряд были удостоены премии «Серебряный потребитель» в категории «Ручные инструменты» в 2018 году. Мнение конечных пользователей доказывает, что продукты Proline облегчают выполнение ряда задач различной сложности. Они характеризуются своей прочностью и очень высоким качеством профессионального уровня.

Стоит также отметить, что инструменты под маркой Proline впервые стали доступны для польских покупателей в 1997 году. Первыми продуктами были отвертки с мягкой рукояткой. В течение следующих двадцати лет предложение Proline успешно расширялось. На сегодняшний день насчитывается около 5000 высококачественных продуктов, успешно используемые профессионалами и всеми, кто самостоятельно выполняет ремонт и обновление. Ни один другой польский бренд ручного инструмента не может похвастаться таким широким ассортиментом.

Выбирая Proline, конечный пользователь получает продукт высочайшего качества, а это означает, что все виды работ можно выполнять быстрее и комфортнее. Владелец торговой точки, выбравшей Proline, получает доступ к широкому спектру специальных кампаний по поддержке продаж, может принять участие во множестве вариантов обучения, а также присоединиться к уникальной программе лояльности Voyager.

* По данным, полученным в рамках конкурса «Признание потребителей 2018».

Proline ist die bekannteste polnische Handwerkzeugmarke*. 75 % all jener, die beim Konsumentenpreis 2018 für Proline gestimmt haben, behaupten, dass sie Produkte dieser Marke ihren Freunden empfehlen würden.

Dank dieser guten Bewertungen, wurden Proline-Werkzeuge 2018 zum zweiten Mal in Folge mit dem Silberkonsumentenpreis ausgezeichnet. Was Endbenutzer sagten, beweist, dass Proline-Produkte die Durchführung einer Reihe von Aufgaben erleichtern. Sie zeichnen sich durch ihre Langlebigkeit und sehr gute, professionelle Qualität aus. Es lohnt sich zu erwähnen, dass Werkzeuge der Marke polnischen Käufern 1997 zum ersten Mal bereitgestellt wurden. Die ersten Produkte waren Soft-Touch-Schraubendreher. In den nächsten zwanzig Jahren wurde Prolines Angebot erfolgreich erweitert. Heute sind es fast 5000 hochwertige Produkte, die die Bedürfnisse von Profis und all jenen, die unabhängige Reparaturen und Renovierungen vornehmen, befriedigen. Keine andere polnische Marke für Handwerkzeuge kann sich mit einem derart breiten Sortiment rühmen.

Wer sich für Proline entscheidet, erhält ein Produkt von höchster Qualität, was bedeutet, dass alle Arbeiten schneller und bequemer ausgeführt werden können. Als Besitzer eines Outlets, der Proline wählt, erhalten Sie Zugriff auf eine breite Palette, Sonerangebote und Aktionen, Teilnahmemöglichkeit an zahlreichen Schulungen sowie die Mitgliedschaft im einzigartigen Voyager-Treueprogramm.

* Gemäß den Angaben die im Rahmen des 2018 Konsumentenpreises gesammelt wurden.

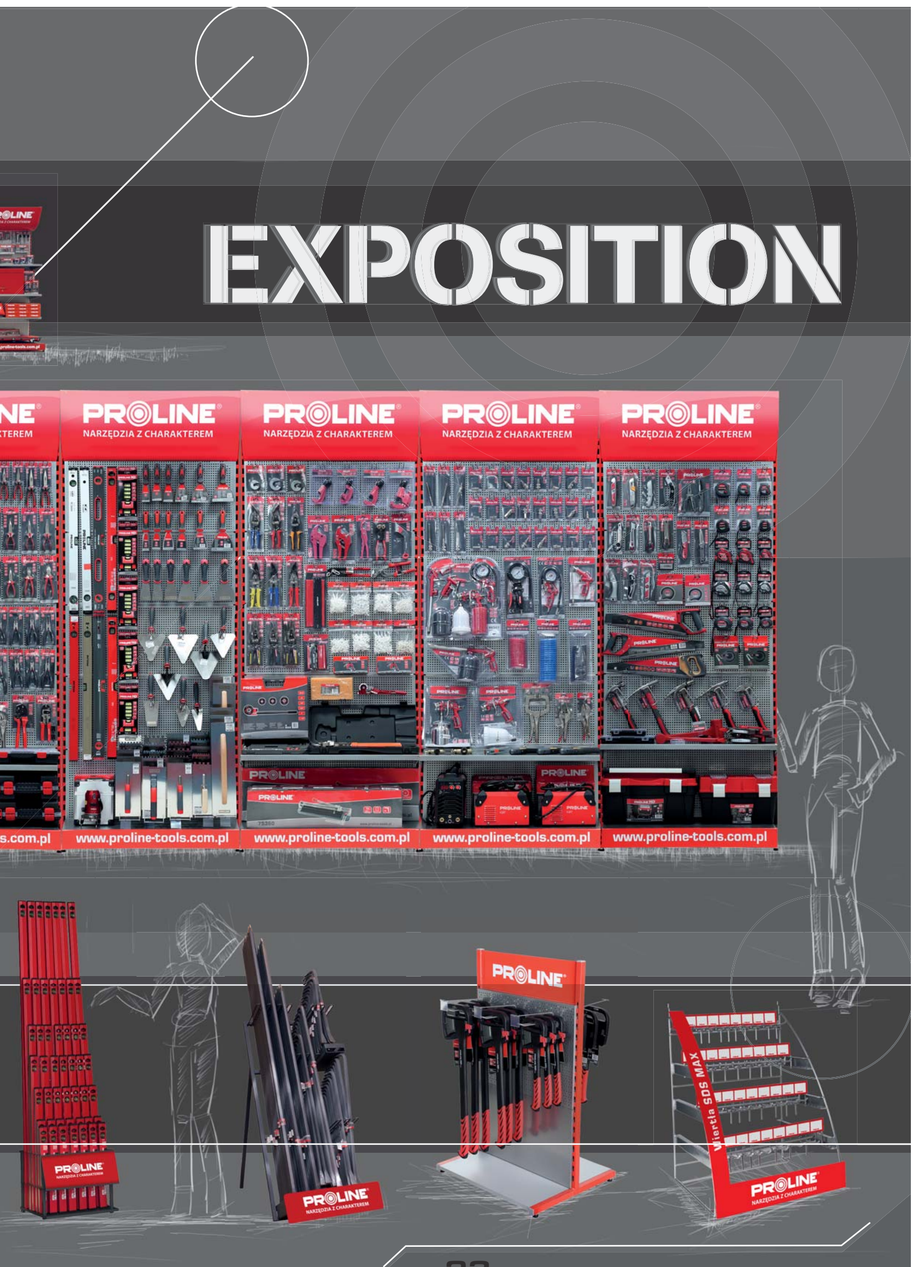

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PROLINE®

1 TOOL CABINET, 7 DRAWERS WITH 250 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 250 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 250 TLG.



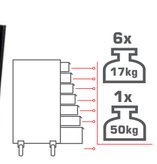

Central lock


Wheel brake


Drawer lock


x2





DRAWER I


587192

• 1/4": (18104-18113) • 1/4" L=50 mm (18121), L=100 mm (18123) • 1/4" (18160) • 1/4" L=115 mm (18162) • (18161) • 1/4" L=145 mm (18178) • 3/8": (18306-18322) • 3/8"" L=150 mm (18343), L=250 mm (18344) • 3/8" (18350) • 1/2" 3/8" (18368) • 3/8" L=200 mm (18378) • 1/2": (18508-18532) • 1/2" 16 mm (18546), 21 mm (18547) • 3/8"" L=125 mm (18552), L=250 mm (18553) • 1/2" (18556) • 3/8" 1/2" (18568) • 1/2" L=250 mm (18578) • 1/2" L=250 mm (18582) • 1/2" (18610-18624) • 1/2" HEX (18644-18652) • 1/2" TORX (18657-18669)

DRAWER II


587194

• 6-32 mm (35606-35632) • 6x7mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32mm (36030) • 9 pcs. Torx spanner set Torx T10-T50 (48339)

DRAWER III


587196

• Screwdrivers: Phillips nr 000 L=63 mm (10080), nr 00 L=63 mm (10081), nr 0 L=75 mm (10161), nr 1 L=100 mm (10162), nr 2 L=100 mm (10163), nr 2 L=150 mm (10164), nr 3 L=150 mm (10165), nr 4 L=200 mm (10167), nr 2 L=38 mm (10168); Flat 6x38 mm (10150), 2.5x63 mm (10151), 3.2x75 mm (10152), 5x100 mm (10153), 5x150 mm (10154), 6x150 mm (10155), 8x150 mm (10156), 3.2x100 mm (10158); Torx with opening T10x100 mm (10190), T15x100 mm (10191), T20x100 mm (10192), T25x100 mm (10193), T27x100 mm (10194), T30x100 mm (10195); T40x100 mm (10196) • Pliers: Combination 160 mm (28750); Side-cutting 160 mm (28760), End-cutting 160 mm (28765), Snipe-nose 160 mm (28770), Flat-nose 160 mm (28772)

DRAWER IV


587198

• Electrical probe (10544) • 1/4" L=50 mm • 1/4" 1/4" (10607), 3/8" 1/4" (10608), 1/2" 1/4" (10609) • 1/4" L=25 mm PH 0, 1, 2, 3; L=50 mm PH 1, 2, 3 L=25 mm PZ 0, 1, 2, 3, L=50 mm PZ 1, 2, 3 L=25 mm 4.5x0.5 mm, 5.5x0.8 mm, 6.5x1.2 mm, 8x1.6 mm TORX L=25 mm T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 L=25 mm Torx with opening T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 L=25 mm HEX 3, 4, 5, 6 mm; Two-sided - PH 1/2 L=50 mm; PH2/PZ2 L=50 mm; PZ 1/2 L=50 mm
• Blind rivet riveter (14007) • Curved-jaw locking pliers 180 mm (28214) • Straight-jaw locking pliers 180 mm (28240)
• Adjustable pipe pliers 250 mm (28580) • Pliers for circlips 150 mm: external-straight (28615), internal-straight (28625), external-bent (28635), internal bent (28645) • Pocket knife (30078) • Blades (31005) • Inspection probe set (46979)
• Hex wrench set 9 pcs. 1.5-10 mm (48309)

Code	Dimensions (mm)	Amount included (pcs.)	
33130	790X490X1010	cabinet with 250 pcs. PROLINE equipment	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 TOOL CABINET, 7 DRAWERS WITH 206 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 206 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 206 TLG.



Working top is a practical organizer with a big working space

Cabinet made of 0,8 mm steel

Drawers with bearings



Central lock



Wheel brake

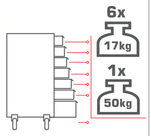


Drawer lock



x2





6x 17kg

1x 50kg

DRAWER I



58782



58784



58724

58782 • 23 mm (35623), 24 mm (35624), 27 mm (35627), 30 mm (35630), 32 mm (35632)

58784 • 6 mm (35606), 8 mm (35608), 9 mm (35609), 10 mm (35610), 12 mm (35612), 13 mm (35613), 14 mm (35614), 15 mm (35615), 17 mm (35617), 18 mm (35618), 19 mm (35619), 22 mm (35622)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58765



58780

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58780 • 6x7 mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32 mm (36030) • Hex wrench set (48309)

DRAWER III



58733



58737



58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18666) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV



58761



58763



58795

58761 • Pliers combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 · 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V



58793



58727



58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33129	790X490X1010	PROLINE HD cabinet with equipment, 206 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 TOOL CABINET, 7 DRAWERS WITH 206 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 206 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 206 TLG.



Working top is a practical organizer with a big working space

Cabinet made of 0,8 mm steel

Drawers with bearings





Central lock

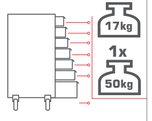


Wheel brake



Drawer lock





DRAWER I



58781 58783 58724

58781 • 23 mm (35423), 24 mm (35424), 27 mm (35427), 30 mm (35430), 32 mm (35432)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58765



58779

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58779 • 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590) • Hex wrench set (48309)

DRAWER III



58733 58737 58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV



58761 58763 58795

58761 • Pliers combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T8, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V



58793 58727 58797

58793 • File set (32265)

58727 • Machinist hammer 500 g (12605) • Rubber hammer 340 g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

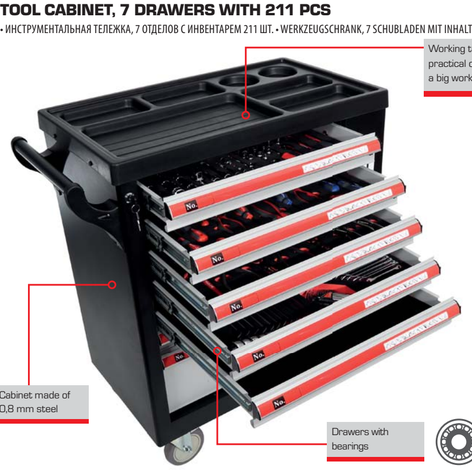
58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33128	790X490X1010	PROLINE cabinet with equipment, 206 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 TOOL CABINET, 7 DRAWERS WITH 211 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 211 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 211 TLG.



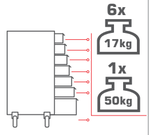



Central lock


Wheel brake


Drawer lock





DRAWER I


58765


58783


58724

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II


58733


58737


58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155)
• 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER III


58761


58763


58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 . 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER IV


58793


58727


58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015)
• Marking tool (31382)

58797 • Set of punches (31361)

Additional equipment:

35701 • Organiser
48308 • HEX wrench set 9 pcs.
48339 • Set of TORX wrenches 9 pcs.
30082 • Scissors
10582 • Electrical probe

Code	Dimensions (mm)	Amount included (pcs.)	
33131	790X490X1010	PROLINE cabinet with equipment, 211 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 TOOL CABINET, 7 DRAWERS WITH 250 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 250 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 250 TLG.

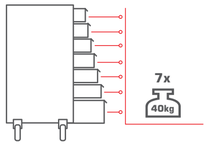



Central lock


Wheel brake


Drawer lock

x2



DRAWER I


587192

• 1/4": (18104-18113) • 1/4" L=50 mm (18121), L=100 mm (18123) • 1/4" (18160) • 1/4" L=115 mm (18162) • (18161) • 1/4" L=145 mm (18178) • 3/8": (18306-18322) • 3/8"" L=150 mm (18343), L=250 mm (18344) • 3/8" (18350) • 1/2" 3/8" (18368) • 3/8" L=200 mm (18378) • 1/2": (18508-18532) • 1/2" 16 mm (18546), 21 mm (18547) • 3/8"" L=125 mm (18552), L=250 mm (18553) • 1/2" (18556) • 3/8" 1/2" (18568) • 1/2" L=250 mm (18578) • 1/2" L=250 mm (18582) • 1/2" (18610-18624) • 1/2" HEX (18544-18652) • 1/2" TORX (18657-18669)

DRAWER II


587194

• 6-32 mm (35606-35632) • 6x7mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32mm (36030) • 9 pcs. Torx spanner set Torx T10-T50 (48339)

DRAWER III


587196

• Screwdrivers: Phillips nr 000 L=63 mm (10080), nr 00 L=63 mm (10081), nr 0 L=75 mm (10161), nr 1 L=100 mm (10162), nr 2 L=100 mm (10163), nr 2 L=150 mm (10164), nr 3 L=150 mm (10165), nr 4 L=200 mm (10167), nr 2 L=38 mm (10168); Flat 6x38 mm (10150), 2.5x63 mm (10151), 3.2x75 mm (10152), 5x100 mm (10153), 5x150 mm (10154), 6x150 mm (10155), 8x150 mm (10156), 3.2x100 mm (10158); Torx with opening T10x100 mm (10190), T15x100 mm (10191), T20x100 mm (10192), T25x100 mm (10193), T27x100 mm (10194), T30x100 mm (10195); T40x100 mm (10196) • Pliers: Combination 160 mm (28750); Side-cutting 160 mm (28760), End-cutting 160 mm (28765), Snipe-nose 160 mm (28770), Flat-nose 160 mm (28772)

DRAWER IV


587198

• Electrical probe (10544) • 1/4" L=50 mm • 1/4" 1/4" (10607), 3/8" 1/4" (10608), 1/2" 1/4" (10609) • 1/4" L=25 mm PH 0, 1, 2, 3; L=50 mm PH 1, 2, 3 L=25 mm PZ 0, 1, 2, 3, L=50 mm PZ 1, 2, 3 L=25 mm 4.5x0.5 mm, 5.5x0.8 mm, 6.5x1.2 mm, 8x1.6 mm TORX L=25 mm T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 L=25 mm Torx with opening T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 L=25 mm HEX 3, 4, 5, 6 mm; Two-sided · PH 1/2 L=50 mm; PH2/PZ2 L=50 mm; PZ 1/2 L=50 mm
• Blind rivet riveter (14007) • Curved-jaw locking pliers 180 mm (28214) • Straight-jaw locking pliers 180 mm (28240) • Adjustable pipe pliers 250 mm (28580) • Pliers for circlips 150 mm: external-straight (28615), internal-straight (28625), external-bent (28635), internal bent (28645) • Pocket knife (30078) • Blades (31005) • Inspection probe set (46979)
• Hex wrench set 9 pcs. 1.5-10 mm (48309)

Code	Dimensions (mm)	Amount included (pcs.)	
33119	706 x 450 x 950	cabinet with 250 pcs. PROLINE equipment	1

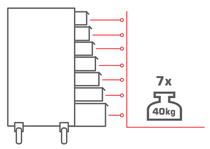
The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 TOOL CABINET, 7 DRAWERS WITH 206 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 206 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 206 TLG.







DRAWER I



58782 58784 58724

58782 • 23 mm (35623), 24 mm (35624), 27 mm (35627), 30 mm (35630), 32 mm (35632)

58784 • 6 mm (35606), 8 mm (35608), 9 mm (35609), 10 mm (35610), 12 mm (35612), 13 mm (35613), 14 mm (35614), 15 mm (35615), 17 mm (35617), 18 mm (35618), 19 mm (35619), 22 mm (35622)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58765 58780

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58780 • 6x7 mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 mm (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32 mm (36030) • Hex wrench set (48309)

DRAWER III



58733 58737 58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155)
• 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV



58761 58763 58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 , 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V



58793 58727 58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015)
• Marking tool (31382)

58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33114	706 x 450 x 950	PROLINE HD cabinet with equipment, 206 pcs.	1

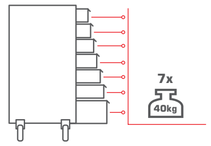
The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 TOOL CABINET, 7 DRAWERS WITH 206 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 206 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 206 TLG.







DRAWER I



58781 58783 58724

58781 • 23 mm (35423), 24 mm (35424), 27 mm (35427), 30 mm (35430), 32 mm (35432)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58765 58779

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18182) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58779 • 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590) • Hex wrench set (48309)

DRAWER III



58733 58737 58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER IV



58761 58763 58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER V



58793 58727 58797

58793 • File set (32265)

58727 • Machinist hammer 500 g (12605) • Rubber hammer 340 g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

58797 • Set of punches (31361)

Code	Dimensions (mm)	Amount included (pcs.)	
33113	706 x 450 x 950	PROLINE cabinet with equipment, 206 pcs.	1

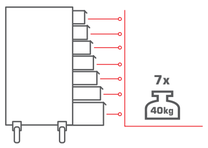
The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

1 TOOL CABINET, 7 DRAWERS WITH 211 PCS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА, 7 ОТДЕЛОВ С ИНВЕНТАРЕМ 211 ШТ. • WERKZEUGSCHRANK, 7 SCHUBLADEN MIT INHALT 211 TLG.







DRAWER I



58765 58783 58724

58765 • 1/4" 145 mm (18178) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18161) • Pocket knife (30078) • Blades (31005)

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58724 • 1/2" L=245 mm (18578) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58733 58737 58787

58733 • Screwdrivers: 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156) • 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

58737 • Screwdrivers: PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

58787 • TORX T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18666) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

DRAWER III



58761 58763 58795

58761 • Pliers: Combination 160 mm (28750) • Pliers side-cutting 160 mm (28760) • Pliers snipe-nose 160 mm (28770) • Pliers end-cutting (28765) • Pliers flat-nose 160 mm (28772)

58763 Pliers for circlips: • External angled 150 mm (28635) • Internal angled 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58795 • 1/4", 3/8", 1/2" • 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm 4.5, 5.5, 6.5, 8.0 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 50 mm PH 1, 2, 3 50 mm PZ 1, 2, 3 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

DRAWER IV



58793 58727 58797

58793 • File set (32265)

58727 • Machinist hammer 500g (12605) • Rubber hammer 340g (12022) • Diamond needle files set 5 pcs. (32015) • Marking tool (31382)

58797 • Set of punches (31361)

Additional equipment:

35701 • Organiser
48309 • HEX wrench set 9 pcs.
48339 • Set of TORX wrenches 9 pcs.
30082 • Scissors
10582 • Electrical probe

Code	Dimensions (mm)	Amount included (pcs.)	
33115	706 x 450 x 950	PROLINE HD cabinet with equipment, 211 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

PROLINE®

1 TOOL CABINETS - 5 OR 6 DRAWERS WITH TOOLS

• ИНСТРУМЕНТАЛЬНЫЕ ТЕЛЕЖКИ, 5 ИЛИ 6 ОТДЕЛОВ С ИНВЕНТАРЕМ • WERKZEUGSCHRANK, 5 ODER 6 SCHUBLADEN MIT INHALT

33117
(6 DRAWERS)





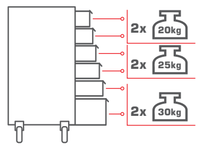
Central lock



Wheel brake



33117



33116

DRAWER I



58763



58765



58724

58763 • Circlip pliers: • External curved 150 mm (28635) • Internal curved 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

58765 • 1/4" 145 mm (18181) • 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • 1/4" L=35 mm (18160) • L=50 mm (18121), L=100 mm (18123) • (18183) • Knife (00079) • Blades (31005)

58724 • 1/2" L=245 mm (18281) • 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • 1/2" L=70 (18556) • 1/2" 16 mm (18546), 21 mm (18547)

DRAWER II



58727



58729



58731

58727 • Machinist's hammer 500g (12605) • Rubber mallet 340g (12022) • Diamond needle files, set of 5 (32015) • Marking-off scriber (31382)

58729 • Pliers: All-purpose 160mm (28700) • Diagonal side 160mm (28710) • Snipe nose 160mm (28720) • Flat nose 160mm (28722) • Automatic wire stripper (28486)

58731 • Screwdrivers: 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • PH1x100 mm (10162) • PH2x100 mm (10163) • PH3x150 mm (10165) • PZ1x100 mm (10172) • PZ2x100 mm (10176)

DRAWER III



58783



58779

58783 • 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

58779 • 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590) • Hex spanner set (48309)

DRAWER IV



58787



58795



58797

58787 • HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652) • TORX T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) • Flashlight (51019)

58795 • 1/4", 3/8", 1/2" • 25mm 4.5, 5.5, 6.5, 8.0 25mm PH 0, 1, 2 (x2), 3 25mm PZ 0, 1, 2, 3 25mm Torx T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm Torx Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 25mm HEX 3, 4, 5, 6 • PH 50 mm 1, 2, 3 50 mm PZ 1, 2, 3 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

58797 • Parallel punch set (31361)

Code	Dimensions (mm)	Number of drawers	Amount included (pcs.)	
33116	688 x 458 x 735	5	cabinet with equipment PROLINE 193 pcs.	1
33117	688 x 458 x 735	6	cabinet with equipment PROLINE 193 pcs.	1

The real set of the cabinet equipment may vary from the specification stated in the catalogue. The tools of similar parameters may be used as a replacement of the specified elements without prior notice.

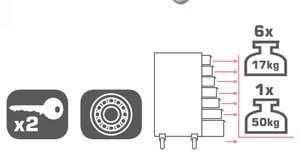
1 TOOL CABINET - 7 DRAWERS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА - 7 ОТДЕЛОВ • WERKZEUGSCHRANK, 7 SCHUBLADEN

- Cabinet made of sheet steel 0.8 mm thick
- Seven versatile drawers allow the necessary tools and accessories to be stored in an orderly manner.
- Practical side storage locker with a key can hold larger accessories, tools, power tools.
- Wheels mounted on ball bearings mean moving a completely loaded cabinet trouble-free, while a steerable pair of wheels makes maneuvering easier.
- The parking brake eliminates the possibility of the cabinet moving without user intervention, allows it to be stably immobilised
- Ball-bearing guides used for the drawers facilitate their opening
- The central lock allows all drawers to be closed with a turn of the key
- Maximum load of drawers: 6 x 17 kg; 1 x 50 kg
- To increase comfort of use, each drawer offers protection against self-opening
- The worktop is made of high quality plastic and has the form of a practical organiser with a large working surface. The contoured spaces for containers holding operating fluids are very practical.







- 6 drawers with dimensions of 53 x 40 cm and a depth of 5.5 cm
- 1 drawer with dimensions of 53 x 40 cm and a depth of 20 cm
- Storage with dimensions: 12.5 x 32 and a height of 70 cm with a practical shelf mounted at half height

Code	Dimensions (mm)	Number of drawers	
33127	790 x 490 x 1010	7	1

1 TOOL CABINET - 7 DRAWERS

• ИНСТРУМЕНТАЛЬНАЯ ТЕЛЕЖКА - 7 ОТДЕЛОВ • WERKZEUGSCHRANK - 7 SCHUBLADEN

Seven universal drawers helps to store your tools and accessories in an orderly fashion

- Wheels on ball bearings make it easy to move even fully loaded cabinet and the pair of turning wheels facilitates maneuvers
- Cabinet wheels can be locked with two brakes
- Ball slides which the drawers move on facilitate their opening
- Additionally, the central lock in a side wall enables to lock all drawers with a single key turning
- Maximum drawer load is 40 kg thanks to which you can store many tools and accessories in your cabinet
- To improve comfort of use, each drawer is protected from spontaneous opening
- Worktop is covered with a rubber lining and the tools situated on it do not displace spontaneously during transport
- The lining protects the cabinet from damage - the same is done by the corners protected with rubber TPR panels



- 5 drawers with dimensions of 53 x 40 cm and a depth of 8 cm
- 2 drawers with dimensions of 53 x 40 cm and a depth of 14 cm

Code	Dimensions (mm)	Number of drawers	
33107	706 x 450 x 950	7	1

1 TOOL CABINETS

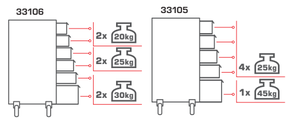
• ИНСТРУМЕНТАЛЬНЫЕ ТЕЛЕЖКИ • WERKZEUGSCHRÄNKE




Central lock


Wheel brake

x2



- Universal drawers help to store your tools and accessories in an orderly fashion • Wheels on ball bearings make it easy to move even fully loaded cabinet and the pair of turning wheels facilitates maneuvers • Cabinet location can be secured with two brakes • Ball slides which the drawers move on facilitate their opening • Additionally, the central lock in a front wall enables to lock all drawers with a single key turning
- **33105**: 5 drawers (dimensions 58 x 41 cm; depth 1 x 20 cm, 4 x 10 cm)
- **33106**: 6 drawers (dimensions 58 x 41 cm; depth 2 x 3 cm, 2 x 8cm a 2 x 14 cm)

Code	Dimensions (mm)	Number of drawers	
33105	688 x 458 x 735	5	1
33106	688 x 458 x 735	6	1

2 TOOL CHEST

• ИНСТРУМЕНТАЛЬНЫЙ ЯЩИК • AUFSATZ-WERKZEUGSCHRANK



- Universal drawers help to store your tools and accessories in an orderly fashion • Ball slides which the drawers move on facilitate their opening • Additionally, the central lock in a front wall enables to lock all drawers with a single key turning • 5 drawers (dimensions 58 x 28cm, depth 3 x 4 cm i 1 x 9.5 cm)

Code	Dimensions (mm)	Number of drawers	
33204	688 x 316 x 386	4	1

3 TOOL TROLLEY

• ТЕЛЕЖКА ДЛЯ ИНСТРУМЕНТОВ • WERKZEUGWAGEN



200kg

- Maximum capacity of 200 kg • Material - steel, 2 mm thick (Side-cutting angle bars), 1.2 mm thick (shelves) • 3 shelves with rubber mats • 2 steerable wheels • Brake • Side handle

Code	Dimensions (mm)	
33205	730 x 380 x 755	1

1 12 PC. TOOL TRAY FOR COMBINATION SPANNERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 12 ШТ. ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • WERKZEUGABLAGE, MAULRINGSCHLÜSSEL MIT RATSCHE, SET 12-TLG.

PROLINE HD



x12 | 395x180 mm | DIN 3113 | CrV 6140 | HRC 47±2

- 6 mm (35606), 8 mm (35608), 9 mm (35609), 10 mm (35610), 12 mm (35612), 13 mm (35613), 14 mm (35614), 15 mm (35615), 17 mm (35617), 18 mm (35618), 19 mm (35619), 22 mm (35622)

Code	Items included	
58714	empty tray	1
58784	combination spanners 12 pcs. PROLINE HD	1

2 12 PC. TOOL TRAY FOR COMBINATION SPANNERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 12 ШТ. ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • WERKZEUGABLAGE, MAULRINGSCHLÜSSEL MIT RATSCHE, SET 12-TLG.



x12 | 395x180 mm | DIN 3113 | CrV

- 6 mm (35406), 8 mm (35408), 9 mm (35409), 10 mm (35410), 12 mm (35412), 13 mm (35413), 14 mm (35414), 15 mm (35415), 17 mm (35417), 18 mm (35418), 19 mm (35419), 22 mm (35422)

Code	Items included	
58714	empty tray	1
58783	combination spanners 12 pcs.	1

3 5 PC. TOOL TRAY FOR COMBINATION SPANNERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 5 ШТ. ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • WERKZEUGABLAGE, MAULRINGSCHLÜSSEL, SET 5-TLG.

PROLINE HD



x5 | 395x180 mm | DIN 3113 | CrV 6140 | HRC 47±2

- 23 mm (35623), 24 mm (35624), 27 mm (35627), 30 mm (35630), 32 mm (35632)

Code	Items included	
58713	empty tray	1
58782	combination spanners 5 pcs. PROLINE HD	1

4 5 PC. TOOL TRAY FOR COMBINATION SPANNERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 5 ШТ. ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • WERKZEUGABLAGE, MAULRINGSCHLÜSSEL, SET 5-TLG.



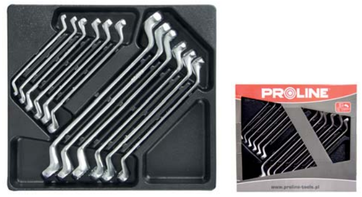
x5 | 395x180 mm | DIN 3113 | CrV

- 23 mm (35423), 24 mm (35424), 27 mm (35427), 30 mm (35430), 32 mm (35432)

Code	Items included	
58713	empty tray	1
58781	combination spanners 5 pcs.	1

1 12 PC. TOOL TRAY FOR RING SPANNERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 12 ШТ. ГАЕЧНЫХ НАКИДНЫХ ИЗОГНУТЫХ КЛЮЧЕЙ • WERKZEUGABLAGE, RINGSCHLÜSSEL GEKRÖPFT, SET 12-TLG.



x12 | 395x360 mm | DIN 838 | CrV

- 6x7 mm (36566), 8x9 mm (36568), 10x11 mm (36570), 12x13 mm (36572), 14x15 mm (36574), 16x17 mm (36576), 18x19 mm (36578), 20x22 mm (36580), 21x23 mm (36581), 24x27 mm (36584), 25x28 mm (36585), 30x32 mm (36590)

Code	Items included	
58711	empty tray	1
58779	ring spanners 12 pcs.	1

2 TOOL TRAY FOR RING SPANNERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 12 ШТ. ГАЕЧНЫХ НАКИДНЫХ ИЗОГНУТЫХ КЛЮЧЕЙ • WERKZEUGABLAGE, RINGSCHLÜSSEL GEKRÖPFT, SET 12-TLG.

PROLINE HD





x12 | 395x360 mm | DIN 838 | CrV 6140 | HRC 47±2

- 6x7 mm (36006), 8x9 mm (36008), 10x11 mm (36010), 12x13 mm (36012), 14x15 mm (36014), 16x17 mm (36016), 18x19 (36018), 20x22 mm (36020), 21x23 mm (36021), 24x27 mm (36024), 25x28 mm (36025), 30x32 mm (36030)

Code	Items included	
58711	empty tray	1
58780	ring spanners 12 pcs. PROLINE HD	1

3 20 PC. TOOL TRAY 20PCS. SOCKET SET WITH 1/2" DRIVE

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 20 ШТ. ТОРЦЕВЫХ ГОЛОВОК • WERKZEUGABLAGE, EINSÄTZE HEX, SET 18-TLG. 1/2"





x20 | 395x180 mm | 72 | 1/2" | CrV | PRO DRIVE

- 1/2" L=245 mm (18578) • O 1/2": 8 mm (18508), 9 mm (18509), 10 mm (18510), 11 mm (18511), 12 mm (18512), 13 mm (18513), 14 mm (18514), 15 mm (18515), 17 mm (18517), 19 mm (18519), 22 mm (18522), 24 mm (18524), 27 mm (18527), 30 mm (18530), 32 mm (18532) • 1/2" L=250 mm (18582) • O 1/2" L=70 (18556) • 1/2" ◉ 16 mm (18546), 21 mm (18547)

Code	Items included	
58723	empty tray	1
58724	socket set 1/2" 20 pcs.	1

4 52 PC. TOOL TRAY SOCKET SET WITH 1/2" DRIVE

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 52 ШТ. БИТОВ • WERKZEUGABLAGE, BITS, SET 52-TLG.





x52 | 395x180 mm | 50mm | 25mm | CrV | 1/4" | HRC 58±2

- O 1/4", 3/8", 1/2" • • ⊕ 25mm PH 0, 1, 2 (x2), 3 ⊕ 25mm PZ 0, 1, 2, 3 ⊖ 25mm 4.5, 5.5, 6.5, 8.0 ◉ 25mm TORX T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 ◎ 25mm TORX Security T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 ◉ 25mm HEX 3, 4, 5, 6 ⊕ 50 mm PH 1, 2, 3 ⊕ 50 mm PZ 1, 2, 3 ⊕ - ⊕ 50 mm PH1-PH2, PH2-PZ2, PZ1-PZ2

Code	Items included	
58795	socket set with 1/2" drive 52 pcs.	1

1 27 PC. TOOL TRAY SOCKET SET WITH 1/4" DRIVE

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 27 ШТ. 1/4" • WERKZEUGABLAGE, SET 16-TLG. 1/4"



x27 | 395x180 mm | 72 | 1/4" | CrV | PRO DRIVE

- 1/4" 145 mm (18178) • O 1/4": 4 mm (18104), 5 mm (18105), 6 mm (18106), 7 mm (18107), 8 mm (18108), 9 mm (18109), 10 mm (18110), 11 mm (18111), 12 mm (18112), 13 mm (18113) • 1/4" L=115 mm (18162) • O 1/4" L=35 mm (18160) • O L=50 mm (18121), L=100 mm (18123)
- (18161) • Knife (30078) • Blades (31005)

Code	Items included	
58703	empty tray	1
58765	socket set 1/4" 16 pcs.	1

2 8 PC. TOOL TRAY FOR SCREWDRIVERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР ОТВЕРТОК 8 ШТ. • WERKZEUGABLAGE, SCHRAUBENDREHER, SET



x8 | 395x180 mm | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- **Screwdrivers:** 2.5x63 mm (10151) • 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • 8.0x150 mm (10156)
- 3.2 X 75 mm (10152) • 6.0 x 38 mm (10150) • 5.0 x 150 mm (10154)

Code	Items included	
58733	slot screwdrivers 8 pcs.	1

3 19 PC. TOOL TRAY FOR SOCKET BITS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР БИТ-ГОЛОВОК 19 ШТ. • WERKZEUGABLAGE, BITEINSÄTZE, SET 19-TLG.



x19 | 395x180 mm | 1/2" | CrV

- TORX: T20 (18657), T25 (18658), T27 (18659), T30 (18660), T40 (18661), T45 (18662), T50 (18663), T55 (18664), T60 (18665), T70 (18669) HEX: 4 mm (18644), 5 mm (18645), 6 mm (18646), 7 mm (18647), 8 mm (18648), 10 mm (18649), 12 mm (18650), 14 mm (18651), 17 mm (18652)

Code	Items included	
58787	Hex and Torx socket bits 19 pcs.	1

4 8 PC. TOOL TRAY FOR SCREWDRIVERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР ОТВЕРТОК ПЛОСКИХ, PHILLIPS И POZIDRIV 8 ШТ. • WERKZEUGABLAGE, SCHRAUBENDREHER, SET



x8 | 395x180 mm | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- **Screwdrivers:** 3.2x100 mm (10158) • 5.0x100 mm (10153) • 6.0x150 mm (10155) • PH1x100 mm (10162) • PH2x100 mm (10163)
- PH3x150 mm (10165) • PZ1x100 mm (10172) • PZ2x100 mm (10176)

Code	Items included	
58730	empty tray	1
58731	slot and phillips screwdrivers 8 pcs.	1

5 8 PC. TOOL TRAY FOR PHILLIPS SCREWDRIVERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР ОТВЕРТОК PHILLIPS 8 ШТ. • WERKZEUGABLAGE, SCHRAUBENDREHER KREUZ, SET



x8 | 395x180 mm | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- **Screwdrivers:** PH0x75 mm (10161), PH1x100 mm (10162), PH2x100 mm (10163), PH3x150 mm (10165), PH4x200 mm (10167), PH000x63 mm (10080), PH00x63 mm (10081), PH2x150 mm (10164)

Code	Items included	
58736	empty tray	1
58737	Philips screwdrivers 8 pcs.	1

1 5 PC. TOOL TRAY FOR PLIERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР КЛЕЩЕЙ 5 ШТ. • WERKZEUGABLAGE, ZANGEN, SET 5-TLG.



x5 | 395x180 mm

• **Pliers:** • Universal 160mm (28750) • Side-cutting 160mm (28760)
• Half-round 160 mm (28770) • End-cutting (28765) • Flat-nose 160 mm (28772)

Code	Items included	
58701	empty tray	1
58761	pliers 5 pcs.	1

2 5 PC. TOOL TRAY FOR PLIERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР КЛЕЩЕЙ 5 ШТ. • WERKZEUGABLAGE, ZANGEN, SET 5-TLG.



x5 | 395x180 mm | CrV

• **Pliers:** • All-purpose 160mm (28700) • Diagonal side 160mm (28710)
• Snipe nose 160mm (28720) • Flat nose 160mm (28722) • Automatic wire stripper (28486)

Code	Items included	
58728	empty tray	1
58729	pliers 1000V, 5 pcs.	1

3 4 PC. TOOL TRAY FOR CIRCLIP PLIERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ ДЛЯ ЩИПЦОВ ДЛЯ СТОПОРНЫХ КОЛЕЦ 4 ШТ. • WERKZEUGABLAGE FÜR SICHERUNGSRINGZANGEN



395x180 mm | CrV | HRC 44±2 | x4

• **Circlip pliers:** • External curved 150 mm (28635) • Internal curved 150 mm (28645) • External straight 150 mm (28615) • Internal straight 150 mm (28625)

Code	Items included	
58702	empty tray	1
58763	circlip pliers 4 pcs.	1

4 8 PC. TOOL TRAY FOR HAMMERS

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ №5 ДЛЯ МОЛОТКОВ 8 ШТ. • WERKZEUGABLAGE, HÄMMER, SET 2-TLG.



x8 | 395x180 mm | 12605 DIN 1041 | HRC 54±2

• Machinist's hammer 500g (12605) • Rubber mallet 340g (12022)
• Diamond needle files, set of 5 (32015) • Marking-off scriber (31382)

Code	Items included	
58726	empty tray	1
58727	hammers 8 pcs.	1

5 5 PC. TOOL TRAY FOR ENGINEERING FILES

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 5 ШТ. СЛЕСАРНЫХ НАПИЛЬНИКОВ • WERKZEUGABLAGE, FEILE, SET 5-TLG.



x5 | 395x180 mm | 200 mm | HRC 62±2

• File set (32265) • High-quality tool steel • Cut no. 2 • Two-composite, non-slip TPR handle

Code	Items included	
58718	empty tray	1
58793	engineering files 5 pcs.	1

6 12 PC. TOOL TRAY FOR CHISELS AND PUNCHES

• ИНСТРУМЕНТАЛЬНЫЕ ЛОТКИ НАБОР 12 ШТ. КЕРНЕРОВ,ЗУБИЛ,ПРОБОЙНИКОВ • WERKZEUGABLAGE, AUSTREIBDORNE, MEISSEL UND KÖRNER, SET 12-TLG.



x12 | 395x180 mm | CrV | HRC 55±2

• Set (31361)
• The set contains:
- Center punch: 100 mm x 6 mm, 115 mm x 8 mm
- Taper pin punch 140 mm x 2 mm
- Chisels: 140 mm x 10 mm, 150 mm x 12 mm, 170 mm x 16 mm
- Parallel punches: 150 mm x 8 mm, 150 mm x 6 mm, 150 mm x 5 mm, 150 mm x 4 mm, 150 mm x 3 mm, 150 mm x 1.5 mm

Code	Items included	
58722	empty tray	1
58797	chisels and punches 12 pcs.	1

PROLINE

1 19 PC. SOCKET SET, 1/2" DRIVE, 8-32 MM

• НАБОР 19 ШТ., 1/2" КВАДРАТ, 8-32 MM • 19-TLG. SET, 1/2" QUADRAT, 8-32 MM



36 | 1/2" | CrV | PRO DRIVE

• 1/2" ○ 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm • 1/2" 36 T • CRV material, chromium-plated and polished

Code	Amount included (pcs.)	
18719	19	10

2 43 PC. SOCKET SET, 1/4" DRIVE, 4-14 MM

• НАБОР 43 ШТ., 1/4" КВАДРАТ, 4-14 MM • 43-TLG. SET, 1/4" QUADRAT, 4-14 MM



72 | 1/4" | CrV | PRO DRIVE

• 1/4" ○ 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 72 T • 1/4" ○ 50, 150 mm • 1/4" ○
• 1/4" • 3/8" 1/4" • 1/4" 145 mm • 1/4" ⊕ PH 1, 2, 3 ⊕ PZ 1, 2, 3 ⊖ 4, 5.5, 6.5 mm ◉ TORX T8, T9, T10, T15, T20, T25, T27, T30, T40 ◉ HEX 3, 4, 5, 6, 8 mm • Made from CrV, chromium-plated and polished, delivered in a plastic case (two-material), metal hinge, metal clamps

Code	Amount included (pcs.)	
58743	43	10

3 43 PC. SOCKET SET, 1/4" DRIVE, 4-14 MM

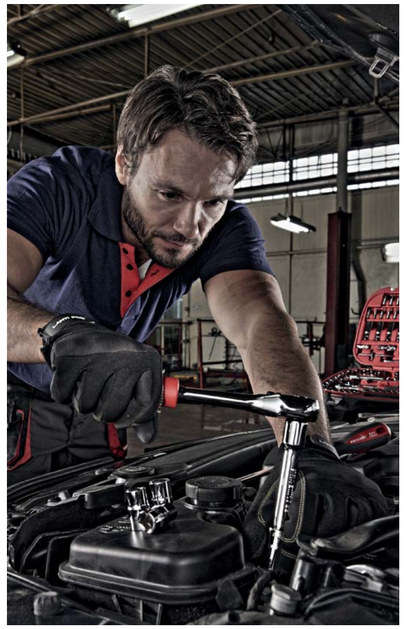
• НАБОР 43 ШТ., 1/4" КВАДРАТ, 4-14 MM • 43-TLG . SET, 1/4" QUADRAT, 4-14 MM



72 | 1/4" | CrV | PRO DRIVE

• 1/4" ○ 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 72 T • 1/4" ○ 50, 150 mm • 1/4" ○ • 1/4" • 3/8" 1/4" • 1/4" 145 mm • 1/4" ⊕ PH 1, 2, 3 ⊕ PZ 1, 2, 3 ⊖ 4, 5.5, 6.5 mm ◉ TORX T8, T9, T10, T15, T20, T25, T27, T30, T40 ◉ HEX 3, 4, 5, 6, 8 mm • Made from CrV, satin, knurled sockets, delivered in a plastic case metal hinge, metal clamps

Code	Amount included (pcs.)	
58843	43	10



1 25 PC. SOCKET SET, 1/2" DRIVE, 8-32 MM

• НАБОР 25 ШТ., 1/2" КВАДРАТ, 8-32 ММ • 25-TLG. SET, 1/2" QUADRAT, 8-32 MM



72 | 1/2" | CrV | PRO DRIVE

- 1/2" O 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm
- 1/2" 72 T • 1/2" O • 1/2" • 1/2" O 125, 250mm
- 1/2" ◉ 16, 21 mm • Made from CrV, chromium-plated, delivered in a plastic case (two-material), metal hinge, metal clamps

Code	Amount included (pcs.)	
58725	25	5



2 25 PC. SOCKET SET, 1/2" DRIVE, 8-32 MM

• НАБОР 25 ШТ., 1/2" КВАДРАТ, 8-32 ММ • 25-TLG . SET, 1/2" QUADRAT, 8-32 MM



72 | 1/2" | CrV | PRO DRIVE

- 1/2" O 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm • 1/2" 72 T • 1/2" O • 1/2"
- 1/2" O 125, 250mm • 1/2" ◉ 16, 21 mm • Stal CrV, • Satin • Knurled sockets • Delivered in a plastic case •Metal hinge, metal clamps

Code	Amount included (pcs.)	
58825	25	4

3 56 PC. SOCKET SET, 1/2" DRIVE, 8-32 MM

• НАБОР 56 ШТ., 1/2" КВАДРАТ, 8-32 ММ • 56-TLG . SET, 1/2" QUADRAT, 8-32 MM



72 | 1/2" | CrV | PRO DRIVE

- 1/2" O 8, 10, 11, 12, 13, 14, 15, 17, 18, 19, 22, 24, 27, 30, 32 mm
- 1/2" 72 T• 1/2" ◉ 16, 21 mm • 3/8" 1/2"
- 1/2" O 125, 250 mm • 1/2" O 10 mm• 1/2" ◉ TP T50, T55, T60 ⊕ PZ 1, 2, 3, 4 • 10 mm ⊕ PH 1, 2, 3, 4 ⊖ 6.5, 8, 10, 12 mm ◉ TORX T10, T15, T20, T25, T27, T30 ◉ TP T10, T15, T20, T25, T27, T30, T40, T45 ◉ HEX 4, 5, 6, 8, 10 mm • Made from CrV • Satin • Knurled sockets • Delivered in a plastic case
- Metal hinge, metal clamps

Code	Amount included (pcs.)	
58856	56	4

PROLINE

PROLINE
LAHTI PRO
MAGNA
JAZZO
OTHER BRANDS
EDOX
KLAUKSPOR
EXPRESS
ACTION CAN
TRYTON
VULCAN

1 94 PC. SOCKET SET, 1/4", 1/2" DRIVE, 4-32 MM

• НАБОР 94 ШТ., 1/4", 1/2" КВАДРАТ, 4-32 MM • 94-TLG. SET, 1/4", 1/2" QUADRAT, 4-32 MM



72 | 1/4" | 1/2" | CrV | PRO DRIVE

• 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm • 1/2" 14, 15, 17, 19 mm • 1/2" 16, 21 mm
• 1/2" 72 T • 1/2" 125, 250 mm • 1/2" • 1/2" • 1/2" 5/16" • 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/4" PH1, 2 PZ1, 2 4, 5.5, 7 mm TORX T8, T10, T15, T20, T25, T30 HEX 3, 4, 5, 6 mm • 5/16" PH1, 2 PZ1, 2 8, 10, 12 mm TORX T40, T45, T50, T55 HEX 8, 10, 12, 14 mm • 1/4" 72 T
• 1/4" 50, 100 mm 1/4" 150 mm • 1/4" • 1/4" • 1/4" • 1/4" • 1.5, 2, 2.5 mm • Made from CrV, chromium-plated and polished, delivered in a plastic case (two-material), metal hinge, metal clamps

Code	Amount included (pcs.)	
58794	94	2

2 94 PC. SOCKET WRENCH SET

• НАБОР 94 ШТ. ГОЛОВОК И ПРИНАДЛАЖНОСТЕЙ • 94-TLG . STECKSCHLÜSSEL SET,



1/4" | 1/2" | CrV | PRO DRIVE | x94

• 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm
• 1/2" 14, 15, 17, 19 mm • 1/2" 16, 21 mm • 1/2" 250 mm
• 1/2" 125 mm • 250 mm • 1/2"
• 1/2" - 5/16" • 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 • 1/4" 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/4" PH 1, 2 PZ 1, 2 4, 5.5, 7 mm TORX T8, T10, T15, T20, T25, T30 HEX 3, 4, 5, 6 mm • 1/4" PH 3, 4 PZ 3, 4 8, 10, 12 mm TORX T40, T45, T50, T55 HEX 8, 10, 12, 14 mm • 1/4"
• 1/4" • 1/4" 125 mm • 1/4" 50, 100 mm • 1/4" 150 mm • 1/4" • 1/4"
• 1.5, 2, 2.5

Code	Amount included (pcs.)	
48794	94	3



1 150 PC. SOCKET SET, 1/4", 3/8" AND 1/2" DRIVE, 4-32 MM

• НАБОР 150 ШТ., 1/4", 3/8", 1/2" КВАДРАТ, 4-32 MM • 150-TLG . SET, 1/4", 3/8" UND 1/2",QUADRAT, 4-32 MM





72 | 1/4" | 3/8" | 1/2" | CrV | PRO DRIVE

- 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 4, 5, 6, 7, 8, 9, 10 mm • 1/4" TORX E4, E5, E6, E7, E8 • 1/4" 72 T • 1/4"
- 1/4" • 1/4" 50, 100 mm • 1/4" • 1/4" PH 0, 1, 2 PZ 0, 1, 2 4, 5.5, 6.5, 7 mm TORX T8, T9, T10, T15 T20, T25, T27, T30 TP T8, T9, T10, T15, T20, T25, T27, T30 HEX 3, 4, 5, 6 mm
- 3/8" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm • 3/8" 10, 11, 12, 13, 14, 15 mm • 3/8" TORX E10, E11, E12, E14, E16, E18 • 3/8" 72 T • 3/8"
- 3/8" 125 mm • 3/8" 5/16" • 3/8" 18 mm • 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32 mm • 1/2" 16, 17, 18, 19, 22 mm • 1/2" TORX E20, E24 • 1/2" 72 T • 1/2" 125, 250 mm • 1/2" • 1/2" 16, 21 mm • 3/8" 1/2"
- 1/2" 5/16" • 1.27, 1.5, 2, 2.5, 3, 4, 5 mm
- 5/16" PH 3, 4 PZ 3, 4 8, 10, 12 mm TORX T40, T45, T50, T55, T60, T70 TP T40, T45, T50, T55, T60, T70 HEX 7, 8, 10, 12, 14 mm • Stal CrV
- Satin • Knurled sockets • Delivered in a plastic case
- Metal hinge, metal clamps

Code	Amount included (pcs.)	
588150	150	2

PROLINE®

1 217 PC. SOCKET SET, 1/4”, 3/8” AND 1/2” DRIVE, 3.5-32 MM WITH COMBINATION SPANNERS 8-49 MM

• НАБОР 217 ШТ., 1/4”, 3/8”, 1/2” КВАДРАТ, 3,5-32 ММ С ГАЕЧНЫМИ РОЖКОВО-НАКИДНЫМИ КЛЮЧАМИ 8-19 ММ • 217-TLG. SET, 1/4”, 3/8”, 1/2” QUADRAT, 3,5-32 MM MIT MAULRINGSCHLÜSSELN



- 1/2” 10, 11, 12, 13, 14, 15, 17, 19, 20, 21, 22, 24, 27, 30, 32 mm
- 1/2” 16, 17, 18, 19, 22 mm
- 1/2” TORX E20, E22, E24
- 1/2” 16, 21 mm
- 1/2” 72 T
- 1/2” 125, 250 mm
- 1/2”
- 1/2”
- 1/2” T55, T60
- 1/2” 5/16” 3/8” 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
- 3/8” 10, 11, 12, 13, 14, 15 mm
- 3/8” TORX E10, E11, E12, E14, E16, E18 mm
- 3/8” 18 mm
- 3/8” 72 T
- 3/8” 125 mm
- 3/8”
- 3/8” 5/16”
- 1/4” 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
- 1/4” 4, 5, 6, 7, 8, 9, 10 mm
- 1/4” TORX E4, E5, E6, E7, E8 mm
- 1/4” 72 T
- 1/4” 50, 100 mm
- 1/4”
- 1/4”
- 1/4” 5/16”
- 1/4”
- 1/4” 1/4”
- 1/4”

- 1/4” PH 1, 2, 3 PZ 1, 2, 3 4, 5.5, 6.5, 7 mm TORX T8, T9, T10, T15, T20, T25, T27, T30 T8, T9, T10, T15, T20, T25, T27, T30 HEX 3, 4, 5, 6 mm
- 1/4” PH 0, 1, 2 PZ 1, 2 4, 5.5, 6.5 mm TORX T8, T10, T15, T20, T25 T8, T10, T15, T20, T25 TS10, TS15, TS20, TS25, TS30 HEX 3, 4, 5, 6 mm M5, M6, M8 3, 4, 5, 6 mm 1, 2 4, 6, 8 mm 1, 2, 3 6, 8, 10
- 1.27, 1.5, 2, 2.5, 3, 4, 5 mm
- 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
- 5/16” PH 3, 4 PZ 3, 4 6, 7, 8 mm TORX T25, T27, T30, T35, T40, T45, T50 T25, T27, T30, T35, T40, T45, T50 HEX 4, 5, 6, 7, 8 mm M5, M6, M8, M10
- Made from CrV
- Chromium-plated and polished
- Delivered in a plastic case
- Metal clamps
- The set includes combination spanners
- Three socket sizes 1/4”,3/8” and 1/2”
- Three ratchets 1/2”, 3/8”, 1/4”

x12 | 72 | 1/4” | 3/8” | 1/2” | CrV

Code	Amount included (pcs.)	
58217	217	2

1 17 PC. GO THRU SOCKET SET

• НАБОР 17 ШТ. ТОРЦЕВЫХ СКВОЗНЫХ ГОЛОВОК • DURCHSTECKSCHLÜSSEL-SET 17-TLG.





x17 CrV

- Universal shape, enabling to work with hex metric and unified-thread, TORX and SPLINE nuts and bolts
- Makes it possible to work with long bolts in places difficult to reach with standard sockets

Code	Amount included (pcs.)	
58717	17	10



2 11 PC. TORX SOCKET SET, 1/4", 3/8",1/2" E4-E20

• НАБОР ТОРЦЕВЫХ ГОЛОВОК 1/2", 1/4", 3/8" С ПРОФИЛЕМ НАСАДОК TORX E4- E20, ЧИСЛО ПРЕДМЕТОВ – 11 • 11-TLG. SET, 1/4", 3/8", 1/2" QUADRAT, EINSÄTZE MIT AUSSEN-TORX E4-E20



1/4" 3/8" 1/2" CrV

- 1/2" TORX E14, E18, E20 • 3/8" TORX E7, E8, E10, E11, E12 • 1/4" TORX E4, E5, E6 • Delivered in a metal case

Code	Amount included (pcs.)	
18711	11	20

3 12 PC. TORX SOCKET SET, 1/4", 3/8", 1/2" T8-T60

• НАБОР 12 ШТ. ТОРЦЕВЫХ ГОЛОВОК 1/2", 1/4", 3/8" С ПРОФИЛЕМ ВСТАВОК TORX T8-T60 • 12-TLG. SET, TORX 1/4", 3/8", 1/2" QUADRAT, T8-T60



1/4" 3/8" 1/2" CrV

- 1/2" TORX T40, T45, T50, T55, T60
- 3/8" TORX T20, T25, T27, T30
- 1/4" TORX T8, T10, T15
- Delivered in a metal case

Code	Amount included (pcs.)	
18712	12	20

4 21 PC. SOCKET SET, 3/4" DRIVE, 19-50 MM

• НАБОР 21 ШТ. ТОРЦЕВЫХ ГОЛОВОК С 6-ГРАННЫМ ПРОФИЛЕМ 3/4", 19-50 MM • 21-TLG. SET, 3/4" QUADRAT, 19-50 MM



24 3/4" CrV PRO DRIVE

- 3/4" 19, 21, 22, 23, 24, 26, 27, 29, 30, 32, 35, 36, 38, 41, 46, 50 mm • 3/4" 24 T • 3/4" 100, 200, 400 mm • 3/4" • Delivered in a metal case

Code	Amount included (pcs.)	
18811	21	1

5 14 PC. SOCKET SET, 3/4" DRIVE, 22-50 MM

• НАБОР 21 ШТ. ТОРЦЕВЫХ ГОЛОВОК С 6-ГРАННЫМ ПРОФИЛЕМ 3/4", 22-50 MM • 14-TLG. SET, 3/4" QUADRAT, 22-50 MM



24 3/4" CrV PRO DRIVE

- 3/4" 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm • 3/4" 24 T • 3/4" 100, 200 mm • 3/4"
- Delivered in a metal case

Code	Amount included (pcs.)	
18804	14	1

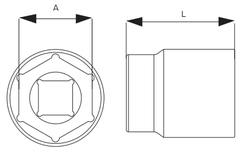
PROLINE

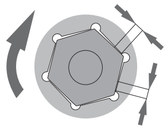
1 6 PT. SOCKETS

• ТОРЦЕВЫЕ ГОЛОВКИ С 6-ГРАННЫМ ПРОФИЛЕМ • SECHSKANTAUFSÄTZE

PRODRIVE HEX SOCKETS PROLINE

- Standard and extended hex sockets are offered in a wide range of sizes • The sockets exceed strength requirements of the DIN 3124 and PN-ISO 1711 standards • Forged chrome vanadium steel sockets, subjected to a precise hardening and tempering process that guarantees proper hardness and durability
- Chrome-plated and polished • PROLINE sockets have specially profiled edges between the working planes - PRO-DRIVE system for mitigating excessive point loads and to protect against excessive „wearing out" of the screw head and surfaces of the socket • Supplied in a cardboard box or on the suspension







1/4" 3/8" 1/2" 3/4" CrV PRO DRIVE

Code	Code on the suspension	A (mm)	L (mm)	
1/4"				
18104	ZR18104	4	25	50/600
18104P	ZR18104P	4.5	25	50/600
18105	ZR18105	5	25	50/500
18105P	ZR18105P	5.5	25	50/500
18106	ZR18106	6	25	50/500
18107	ZR18107	7	25	50/500
18108	ZR18108	8	25	50/500
18109	ZR18109	9	25	50/500
18110	ZR18110	10	25	50/500
18111	ZR18111	11	25	50/500
18112	ZR18112	12	25	50/500
18113	ZR18113	13	25	50/500
3/8"				
18306	ZR18306	6	28	24/288
18307	ZR18307	7	28	24/288
18308	ZR18308	8	28	24/288
18310	ZR18310	10	28	12/288
18312	ZR18312	12	28	24/288
18313	ZR18313	13	28	12/288
18314	ZR18314	14	28	18/288
18315	ZR18315	15	28	24/288
18316	ZR18316	16	28	24/288
18317	ZR18317	17	28	12/192
18319	ZR18319	19	28	24/192
18320	ZR18320	20	28	24/192
18321	ZR18321	21	28	24/192
18322	ZR18322	22	28	24/192
18324	ZR18324	24	28	24/192

Code	Code on the suspension	A (mm)	L (mm)	
1/2"				
18508	ZR18508	8	38	50/300
18509	ZR18509	9	38	50/300
18510	ZR18510	10	38	50/300
18511	ZR18511	11	38	50/300
18512	ZR18512	12	38	50/300
18513	ZR18513	13	38	50/300
18514	ZR18514	14	38	50/300
18515	ZR18515	15	38	50/300
18516	ZR18516	16	38	50/250
18517	ZR18517	17	38	50/250
18518	ZR18518	18	38	50/250
18519	ZR18519	19	38	50/250
18520	ZR18520	20	38	50/250
18521	ZR18521	21	38	50/200
18522	ZR18522	22	38	50/200
18523	ZR18523	23	38	50/200
18524	ZR18524	24	38	50/200
18525	ZR18525	25	42	12/144
18527	ZR18527	27	42	50/100
18528	ZR18528	28	42	50/100
18529	ZR18529	29	42	50/100
18530	ZR18530	30	42	50/100
18532	ZR18532	32	42	50/100
3/4"				
18819	ZR18819	19	50	10/80
18821	ZR18821	21	50	10/80
18822	ZR18822	22	50	10/80
18824	ZR18824	24	51	10/80
18826	ZR18826	26	51	10/80
18827	ZR18827	27	52	10/80
18830	ZR18830	30	53	10/80
18832	ZR18832	32	54	10/80
18835	ZR18835	35	58	10/40
18836	ZR18836	36	58	10/40
18838	ZR18838	38	60	10/40
18841	ZR18841	41	64	10/20
18846	ZR18846	46	68	10/20
18850	ZR18850	50	72	10/20

2 6 PT. DEEP SOCKETS

• ТОРЦЕВЫЕ ГОЛОВКИ С 6-ГРАННЫМ ПРОФИЛЕМ УДЛИНЕННЫЕ
• SECHSKANTAUFSÄTZE VERLÄNGERT



1/4" 3/8" 1/2" CrV PRO DRIVE

- Delivered in carton box or on the suspensions

Code	Code on the suspension	A (mm)	L (mm)	
1/4"				
18163	ZR18163	4	50	50/400
18165	ZR18165	4.5	50	50/400
18166	ZR18166	5	50	50/400
18167	ZR18167	5.5	50	50/400
18169	ZR18169	6	50	50/400
18176	ZR18176	7	50	50/400
18179	ZR18179	8	50	50/500
18182	ZR18182	9	50	50/400
18183	ZR18183	10	50	50/500
18184	ZR18184	11	50	50/400
18185	ZR18185	12	50	50/200
18186	ZR18186	13	50	50/250
3/8"				
18360	ZR18360	7	63	50/300
18361	ZR18361	8	63	50/300
18362	ZR18362	9	63	50/300
18363	ZR18363	10	63	50/300
18364	ZR18364	11	63	50/300
18365	ZR18365	12	63	50/300
18367	ZR18367	13	63	50/200
18369	ZR18369	14	63	50/150
18382	ZR18382	15	63	50/150
18383	ZR18383	16	63	50/150
18384	ZR18384	17	63	50/150
18385	ZR18385	18	63	50/150
18386	ZR18386	19	63	50/150
1/2"				
18610	ZR18610	10	77	10/160
18611	ZR18611	11	77	10/160
18612	ZR18612	12	77	10/160
18613	ZR18613	13	77	10/160
18614	ZR18614	14	77	10/160
18615	ZR18615	15	77	10/160
18616	ZR18616	16	77	10/160
18617	ZR18617	17	77	10/160
18618	ZR18618	18	77	10/140
18619	ZR18619	19	77	10/140
18620	ZR18620	20	77	10/110
18621	ZR18621	21	77	10/110
18622	ZR18622	22	77	10/110
18624	ZR18624	24	77	10/90
18627	ZR18627	27	77	10/90
18630	ZR18630	30	77	8/64
18632	ZR18632	32	77	6/30

1 12 PT SOCKETS, 1/2" DRIVE

• ТОРЦЕВЫЕ ГОЛОВКИ С 12-ГРАННЫМ ПРОФИЛЕМ 1/2"
• ZWÖLFKANTAUFSÄTZE, 1/2"



1/2" CrV

Code	Code on the suspension	A (mm)	L (mm)	
18559	ZR18559	8	38	12/240
18560	ZR18560	9	38	12/240
18561	ZR18561	10	38	12/240
18562	ZR18562	11	38	12/240
18563	ZR18563	12	38	12/240
18564	ZR18564	13	38	12/240
18565	ZR18565	14	38	12/240
18566	ZR18566	15	38	12/240
18567	ZR18567	16	38	12/240
18569	ZR18569	17	38	12/240
18570	ZR18570	18	38	12/240
18571	ZR18571	19	38	12/240
18575	ZR18575	20	38	12/240
18583	ZR18583	21	38	12/144
18587	ZR18587	22	38	12/144
18588	ZR18588	23	38	12/144
18589	ZR18589	24	40	12/144
18590	ZR18590	25	42	12/144
18591	ZR18591	27	42	12/144
18592	ZR18592	28	42	12/96
18593	ZR18593	29	42	12/96
18594	ZR18594	30	45	12/96
18595	ZR18595	32	45	12/96

2 12 PT DEEP SOCKETS, 1/2" DRIVE

• ТОРЦЕВЫЕ УДЛИНЕННЫЕ ГОЛОВКИ С 12-ГРАННЫМ ПРОФИЛЕМ 1/2" • ZWÖLFKANTAUFSÄTZE, 1/2", VERLÄNGERT



1/2" CrV

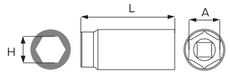
Code	Code on the suspension	A (mm)	L (mm)	
18608	ZR18608	8	77	20/160
18609	ZR18609	9	77	20/160
18623	ZR18623	10	77	20/160
18625	ZR18625	11	77	20/160
18626	ZR18626	12	77	20/160
18628	ZR18628	13	77	15/120
18629	ZR18629	14	77	15/120
18631	ZR18631	15	77	15/120
18633	ZR18633	16	77	15/120
18634	ZR18634	17	77	15/120
18635	ZR18635	18	77	15/120
18636	ZR18636	19	77	15/120
18637	ZR18637	20	77	10/80
18638	ZR18638	21	77	10/80
18639	ZR18639	22	77	10/80
18640	ZR18640	24	77	10/80
18641	ZR18641	27	77	5/50
18642	ZR18642	30	77	5/50
18643	ZR18643	32	77	5/50

3 SPARK PLUG SOCKETS

• СВЕЧНЫЕ ГОЛОВКИ С 6-ГРАННЫМ ПРОФИЛЕМ • SECHSKANT-INSÄTZE FÜR ZÜNDKERZEN



18547 18546



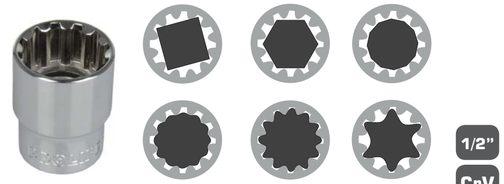
1/2" CrV PRO DRIVE

• With a rubber insert, protecting the plug from falling out and the ceramic fixture from damage • The sockets with eyelets are available for special order

Code	Code on the suspension	A (mm)	L (mm)	H (mm)	
18546	ZR18546	16	64	-	20/160
18547	ZR18547	21	64	23.6	20/100

4 SPLINE SOCKETS, 1/2" DRIVE

• УНИВЕРСАЛЬНЫЕ ГОЛОВКИ SPLINE 1/2" • UNIVERSALEINSÄTZE SPLINE, 1/2"



1/2" CrV

• Universal shape enables to use for hex nuts and bolts with metric and inch sizes, square, TORX and SPLINE

Code	Code on the suspension	A (mm)	Hex bolt size (mm)	L (mm)	
18500	ZR18500	M8	8	38	10/240
18501	ZR18501	M9	9	38	10/240
18502	ZR18502	M10	10	38	10/240
18503	ZR18503	M11	11	38	10/240
18504	ZR18504	M12	12	38	50/300
18505	ZR18505	M13	13	38	50/300
18506	ZR18506	M14	14	38	10/240
18507	ZR18507	M15	15	38	10/240
18526	ZR18526	M16	16	38	10/240
18531	ZR18531	M17	17	38	10/240
18533	ZR18533	M18	18	38	50/250
18534	ZR18534	M19	19	38	10/240
18535	ZR18535	M20	20	38	10/240
18536	ZR18536	M21	21	38	10/240
18537	ZR18537	M22	22	38	10/100
18538	ZR18538	M24	24	38	10/100
18539	ZR18539	M27	27	42	10/100
18540	ZR18540	M30	30	42	10/80
18541	ZR18541	M32	32	42	10/80

5 TORX SOCKETS BITS

• ГОЛОВКИ TORX • TORX STECKSCHLÜSSEL BITS



1/2" 1/4" S2 3/8" CrV

Code	Code on the suspension	A (mm)	L (mm)	
1/4"				
18150	ZR18150	E4	25	50/300
18151	ZR18151	E5	25	50/300
18152	ZR18152	E6	25	50/300
18153	ZR18153	E7	25	50/300
18154	ZR18154	E8	25	50/300
18155	ZR18155	E10	25	50/300
3/8"				
18355	ZR18355	E10	28	50/300
18356	ZR18356	E11	28	50/300
18357	ZR18357	E12	28	50/300
18358	ZR18358	E14	28	50/300
18359	ZR18359	E16	28	50/300
1/2"				
18542	ZR18542	E8	38	50/300
18543	ZR18543	E10	38	50/300
18544	ZR18544	E11	38	50/300
18545	ZR18545	E12	38	50/300
18548	ZR18548	E14	38	50/250
18549	ZR18549	E16	38	50/200
18558	ZR18558	E18	38	50/250
18550	ZR18550	E20	38	50/250
18554	ZR18554	E22	38	50/200
18557	ZR18557	E24	38	20/240

PROLINE

1 1/4“ PHILIPS SOCKET BITS

• БИТЫ-ГОЛОВКИ PHILIPS 1/4“ • 1/4“ PHILIPS STECKSCHLÜSSEL BITS



1/4” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58135	ZR58135	PH1	37	50/300
58136	ZR58136	PH2	37	50/300
58137	ZR58137	PH3	37	50/300

2 1/4“ POZIDRIV SOCKET BITS

• БИТЫ-ГОЛОВКИ POZIDRIV 1/4“ • 1/4“ POZIDRIV STECKSCHLÜSSEL BITS



1/4” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58138	ZR58138	PZ1	37	50/300
58139	ZR58139	PZ2	37	50/300
58140	ZR58140	PZ3	37	50/300

3 HEX SOCKET BITS

• БИТЫ-ГОЛОВКИ HEX • INNENSECHSKANT BITS



1/2” S2 1/4” CrV

Code	Code on the suspension	A (mm)	L (mm)	
1/4”				
58120	ZR58120	3	37	50/300
58121	ZR58121	4	37	50/300
58122	ZR58122	5	37	50/300
58123	ZR58123	6	37	50/500
58124	ZR58124	7	37	50/300
58125	ZR58125	8	37	50/500
1/2”				
58500	ZR58500	3	55	50/300
18644	ZR18644	4	55	10/120
18645	ZR18645	5	55	10/120
18646	ZR18646	6	55	50/250
18647	ZR18647	7	55	50/250
18648	ZR18648	8	55	50/250
58501	ZR58501	9	55	50/300
18649	ZR18649	10	55	50/300
18650	ZR18650	12	55	50/300
18651	ZR18651	14	55	50/200
18652	ZR18652	17	55	50/100
58502	ZR58502	19	55	50/100

4 HEX SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ HEX 1/2“ • INNENSECHSKANT BITS



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58503	ZR58503	4	100	50/200
58504	ZR58504	5	100	50/200
58505	ZR58505	6	100	50/250
58506	ZR58506	7	100	50/150
58507	ZR58507	8	100	50/250
58508	ZR58508	10	100	50/150
58509	ZR58509	12	100	50/150
58510	ZR58510	14	100	50/100
58511	ZR58511	17	100	50/100

5 HEX SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ HEX 1/2“ • INNENSECHSKANT BITS



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58512	ZR58512	5	140	50/150
58513	ZR58513	6	140	50/200
58514	ZR58514	7	140	50/150
58515	ZR58515	8	140	50/150
58516	ZR58516	10	140	50/150
58517	ZR58517	12	140	50/100
58518	ZR58518	14	140	50/100

6 BALL END HEX SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ С ШАРИКОМ 1/2“ • INNENSECHSKANT BITS 1/2“ MIT KUGELKOPF



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58519	ZR58519	5	140	50/100
58520	ZR58520	6	140	50/100
58521	ZR58521	7	140	50/100
58522	ZR58522	8	140	50/100
58523	ZR58523	10	140	50/100

7 TORX SOCKET BITS

• БИТЫ-ГОЛОВКИ TORX • TORX STECKSCHLÜSSEL BITS



1/2” 1/4” S2 3/8” CrV

Code	Code on the suspension	A (mm)	L (mm)	
1/4”				
58126	ZR58126	T8	37	50/500
58127	ZR58127	T9	37	50/300
58128	ZR58128	T10	37	50/300
58129	ZR58129	T15	37	50/300
58130	ZR58130	T20	37	50/300
58131	ZR58131	T25	37	50/300
58132	ZR58132	T27	37	50/300
58133	ZR58133	T30	37	50/300
58134	ZR58134	T40	37	50/300
3/8”				
58300	ZR58300	T8	48	50/300
58301	ZR58301	T9	48	50/300
58302	ZR58302	T10	48	50/300
58303	ZR58303	T15	48	50/300
58304	ZR58304	T20	48	50/300
58305	ZR58305	T25	48	50/300
58306	ZR58306	T27	48	50/300
58307	ZR58307	T30	48	50/500
58308	ZR58308	T40	48	50/300
58309	ZR58309	T50	48	50/500
58310	ZR58310	T55	48	50/300
1/2”				
18657	ZR18657	T20	55	10/120
18658	ZR18658	T25	55	10/120
18659	ZR18659	T27	55	10/120
18660	ZR18660	T30	55	50/250
18661	ZR18661	T40	55	50/200
18662	ZR18662	T45	55	50/200
18663	ZR18663	T50	55	50/200
18664	ZR18664	T55	55	50/200
18665	ZR18665	T60	55	50/200
18669	ZR18669	T70	55	10/120

8 TORX SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ TORX 1/2“ • TORX STECKSCHLÜSSEL BITS



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58533	ZR58533	T20	100	50/200
58534	ZR58534	T25	100	50/200
58535	ZR58535	T27	100	50/150
58536	ZR58536	T30	100	50/250
58537	ZR58537	T40	100	50/150
58538	ZR58538	T45	100	50/150
58539	ZR58539	T50	100	50/250
58540	ZR58540	T55	100	50/150
58541	ZR58541	T60	100	50/150
58542	ZR58542	T70	100	50/100

1 TORX SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ TORX 1/2" • TORX STECKSCHLÜSSEL BITS



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58547	ZR58547	T40	120	50/150
58548	ZR58548	T50	120	50/150
58543	ZR58543	T50	140	50/150
58544	ZR58544	T55	140	50/150
58545	ZR58545	T60	140	50/100
58546	ZR58546	T70	140	50/100

2 RIBE SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ RIBE 1/2" • RIBE STECKSCHLÜSSEL BITS 1/2"



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58524	ZR58524	R7	55	50/300
58525	ZR58525	R9	55	50/300
58526	ZR58526	R10	55	50/300
58527	ZR58527	R12	55	50/200
58528	ZR58528	R14	55	50/150
58529	ZR58529	R16	55	50/150

3 RIBE SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ RIBE 1/2" • RIBE STECKSCHLÜSSEL BITS 1/2"



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58530	ZR58530	R12	100	50/100
58531	ZR58531	R14	100	50/100
58532	ZR58532	R16	100	50/100

4 SPLINE SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ SPLINE 1/2" • SPLINE STECKSCHLÜSSEL BITS 1/2"



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
18666	ZR18666	M5	55	10/120
18653	ZR18653	M6	55	10/120
18654	ZR18654	M8	55	10/120
18655	ZR18655	M10	55	10/120
18656	ZR18656	M12	55	10/120
18667	ZR18667	M14	55	10/120
18668	ZR18668	M16	55	10/120

5 SPLINE SOCKET BITS 1/2“

• БИТЫ-ГОЛОВКИ SPLINE 1/2" • SPLINE STECKSCHLÜSSEL BITS 1/2"



1/2” S2 CrV

Code	Code on the suspension	A (mm)	L (mm)	
58549	ZR58549	M6	100	50/150
58550	ZR58550	M8	100	50/250
58551	ZR58551	M10	100	50/150
58552	ZR58552	M12	100	50/150
58553	ZR58553	M14	100	50/150
58554	ZR58554	M16	100	50/100



6 SOCKET AND SOCKET BIT RAILS 1/4”, 3/8”, 1/2”

• ПЛАНКИ ДЛЯ ГОЛОВОК И БИТ-ГОЛОВОК 1/4", 3/8" И 1/2" • STECKSCHLÜSSEL UND BITSCHIENEN 1/4", 3/8", 1/2"



Code	Type	L (mm)	Amount (pcs)		
18199	1/4", 6 clips	120	2	x	200
18399	3/8", 6 clips	280	2	x	200
18599	1/2", 6 clips	280	2	x	200

PROLINE

1 REVERSIBLE RATCHETS

• КЛЮЧИ ТРЕЩОТОЧНЫЕ • GRIFFE MIT RATSCHE



108 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Handle with plastic insert • Pitch 3.33° • Reduced head dimensions

Code	Square	L (mm)		
18191	1/4"	133	x	25/100
18391	3/8"	192	x	12/48
18691	1/2"	260	x	6/24

2 REVERSIBLE RATCHETS

• КЛЮЧИ ТРЕЩОТОЧНЫЕ • GRIFFE MIT RATSCHE



72 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Swan-neck ratchet with a socket made from two-component material, with rubber components cast-in

Code	Code on the suspension	Square	L (mm)	
18172	**ZR18172**	1/4"	145	25/100
18372	**ZR18372**	3/8"	200	12/48
18572	**ZR18572**	1/2"	250	6/24

3 REVERSIBLE RATCHETS

• КЛЮЧИ ТРЕЩОТОЧНЫЕ • GRIFFE MIT RATSCHE



72 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Push button

Code	Square	L (mm)		
18194	1/4"	157	x	12/96
18394	3/8"	201	x	12/48
18694	1/2"	258	x	6/24

4 COMPOSITE REVERSIBLE RATCHETS

• РУКОЯТКИ КОМПОЗИТНЫЕ С ТРЕЩОТКОЙ • ZUSAMMENGESETZTE UMSCHALTKNARREN



72 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Push button • Two-component handle TPR/PP

Code	Square	L (mm)		
18195	1/4"	144	x	25/100
18295	3/8"	202	x	12/48
18695	1/2"	257	x	6/24

5 REVERSIBLE RATCHETS WITH FLEXIBLE HEAD

• КЛЮЧИ ТРЕЩОТОЧНЫЕ С ШАРНИРОМ • GRIFFE MIT RATSCHE UND BEWEGLICHEM KOPF



36 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Ring switch • Moving head

Code	Square	L (mm)		
18192	1/4"	178	x	12/96
18392	3/8"	257	x	12/48
18692	1/2"	305	x	6/24

6 EXTENDABLE REVERSIBLE RATCHETS WITH FLEXIBLE HEAD

• РУКОЯТКИ С ТРЕЩОТКОЙ ТЕЛЕСКОПИЧЕСКИЕ С ШАРНИРОМ • AUSZIEHBARE UMSCHALTKNARREN MIT FLEXIBLEM KOPF



36 | 1/4" | 3/8" | 1/2" | CrV | TPR/PP

• Ring switch • Moving head

Code	Square	L (mm)		
18193	1/4"	197-245	x	12/72
18393	3/8"	273-375	x	6/36
18693	1/2"	368-508	x	5/20

1 REVERSIBLE RATCHETS

• КЛЮЧИ ТРЕЩОТОЧНЫЕ • GRIFFE MIT RATSCHE



72 | 1/4" | 3/8" | 1/2" | CrV

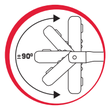
• Push button • Two-component material handle

Code	Code on the suspension	Square	L (mm)	
18178	ZR18178	1/4"	145	50/150
18378	ZR18378	3/8"	200	30/60
18578	ZR18578	1/2"	250	15/30

2 REVERSIBLE RATCHETS WITH FLEXIBLE HEAD

• КЛЮЧИ ТРЕЩОТОЧНЫЕ С ШАРНИРОМ • GRIFFE MIT RATSCHE UND BEWEGLICHEM KOPF





72 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Ratchet with a socket made from two-component material, with rubber components cast-in • Moveable head

Code	Code on the suspension	Square	L (mm)	
18180	ZR18180	1/4"	164	25/100
18580	ZR18580	1/2"	285	6/24

3 REVERSIBLE RATCHETS

• КЛЮЧИ ТРЕЩОТОЧНЫЕ • GRIFFE MIT RATSCHE



24 | 1/4" | 3/8" | 1/2" | CrV

• Push button • Two-component material handle

Code	Square	L (mm)		
18196	1/4"	145	x	50/150
18396	3/8"	200	x	30/60
18696	1/2"	250	x	15/30

4 STUBBY DOUBLE SIDED RATCHET

• КЛЮЧ ТРЕЩОТОЧНЫЙ КОРОТКИЙ, ДВУХСТОРОННИЙ • KURZER GRIFF MIT RATSCHE



72 | 3/8" | 1/2" | CrV

• Push button • Two-component material handle

Code	Square	L (mm)	
18579	1/2" x 3/8"	135	20/80

5 REVERSIBLE RATCHETS

• КЛЮЧИ ТРЕЩОТОЧНЫЕ • GRIFFE MIT RATSCHE



24 | 1/4" | 3/8" | 1/2" | CrV

• Rotary switch • Polished

Code	Code on the suspension	Square	L (mm)	
18175	ZR18175	1/4"	145	25/100
18375	ZR18375	3/8"	200	15/60
18576	ZR18576	1/2"	250	15/30

6 REVERSIBLE RATCHET

• КЛЮЧ ТРЕЩОТОЧНЫЙ • GRIFFE MIT RATSCHE



24 | 3/4" | CrV

• Push button • Knurled handle

Code	Code on the suspension	Square	L (mm)	
18860	ZR18860	3/4"	510	5/10

7 OFF-SET HANDLES

• ВОРОТКИ • VERSETZTE GRIFFE



1/2" | 3/4" | CrV

• Knurled handle

Code	Code on the suspension	Square	L (mm)	
18581	ZR18581	1/2"	200	15/60
18865	ZR18865	3/4"	450	10

8 FLEXIBLE HANDLES

• ВОРОТКИ ШАРНИРНЫЕ • GELENKGRIFFE



1/4" | 3/8" | 1/2" | 3/4" | CrV

• Knurled handle

Code	Code on the suspension	Square	L (mm)	
18164	ZR18164	1/4"	150	36/144
18354	ZR18354	3/8"	200	24/96
18584	ZR18584	1/2"	250	15/60
18585	ZR18585	1/2"	375	20
18586	ZR18586	1/2"	450	20
18864	ZR18864	3/4"	510	10

1 SLIDING T-BARS

• ВОРОТКИ Т-ОБРАЗНЫЕ • T-GRIFFE VERSCHIEBBAR



1/4" 3/8" 1/2" 3/4" CrV

• Knurled handle

Code	Code on the suspension	Square	L (mm)	
18162	ZR18162	1/4"	115	24/384
18352	ZR18352	3/8"	165	12/144
18582	ZR18582	1/2"	250	15/60
18863	ZR18863	3/4"	460	10

2 SPINNER HANDLE 1/4"

• РУКОЯТКА ДЛЯ ГОЛОВОК 1/4" • STECKGRIFF 1/4"



1/4" CrV

• Two-component handle

Code	Square	L (mm)		
18161	1/4"	150	x	30/60

3 SPINNER HANDLE 1/4"

• РУКОЯТКА ДЛЯ ГОЛОВОК 1/4" • STECKGRIFF 1/4"



1/4" CrV

• Two-component handle

Code	Square	L (mm)		
18171	1/4"	150	x	30/60

4 UNIVERSAL JOINTS

• ШАРНИРЫ КАРДАННЫЕ
• KARDANGELENKE UNIVERSAL



1/4" 3/8" 1/2" 3/4" CrV

• Enables to apply torque from 0° to 75°

Code	Code on the suspension	Square	L (mm)	
18160	ZR18160	1/4"	35	48/384
18350	ZR18350	3/8"	50	24/288
18556	ZR18556	1/2"	70	12/144
18858	ZR18858	3/4"	100	10/20

5 ADAPTORS

• АДАПТЕРЫ-ПЕРЕХОДНИКИ • VERBINDUNGSSTÜCKE (REDUKTIONEN)





3/8" 1/2" 3/4" CrV

• Enables cooperation of ratchets, sockets and other accessories with different dimensions of the socket and pivot

Code	Code on the suspension	Socket (F)	Foot (M)	
18368	ZR18368	1/2"	3/8"	25/300
18568	ZR18568	3/8"	1/2"	25/300
18867	ZR18867	3/4"	1/2"	12/96
18868	ZR18868	1/2"	3/4"	25/150

6 EXTENSION BARS

• УДЛИНИТЕЛИ • VERLÄNGERUNGEN



1/4" 3/8" 1/2" 3/4" CrV

• Enables work in places difficult to reach • With a locking ball securing the attachment during use • Extensions have a square socket on one end and a rounded square pin on the other end to help work at angles

Code	Code on the suspension	Square	L (mm)	
18121	ZR18121	1/4"	50	48/576
18122	ZR18122	1/4"	75	32/576
18123	ZR18123	1/4"	100	24/384
18124	ZR18124	1/4"	150	24/288
18341	ZR18341	3/8"	75	24/288
18342	ZR18342	3/8"	125	24/144
18343	ZR18343	3/8"	150	12/144
18344	ZR18344	3/8"	250	50/100
18551	ZR18551	1/2"	75	50/150
18552	ZR18552	1/2"	125	50/100
18553	ZR18553	1/2"	250	50
18871	ZR18871	3/4"	100	50
18872	ZR18872	3/4"	200	25
18874	ZR18874	3/4"	400	10

7 WOBBLE EXTENSION BARS

• УДЛИНИТЕЛИ ОТКЛОНЯЕМЫЕ • ZAPFEN-VERLÄNGERUNGSSTANGEN



1/4" 3/8" 1/2" CrV

• Enables work in places difficult to reach • With a locking ball securing the attachment during use • Extensions have a square socket on one end and a rounded square pin on the other end to help work at angles

Code	Code on the suspension	Square	L (mm)	
18126	ZR18126	1/4"	50	50/300
18127	ZR18127	1/4"	100	50/300
18128	ZR18128	1/4"	150	50/150
18129	ZR18129	1/4"	250	50/150
18346	ZR18346	3/8"	50	50/300
18347	ZR18347	3/8"	100	50/150
18348	ZR18348	3/8"	150	50/150
18349	ZR18349	3/8"	250	50/100
18671	ZR18671	1/2"	75	50/150
18672	ZR18672	1/2"	125	50/100
18673	ZR18673	1/2"	200	50
18674	ZR18674	1/2"	250	50

8 FLEXIBLE EXTENSION BARS

• УДЛИНИТЕЛИ ГИБКИЕ • VERLÄNGERUNGEN ELASTISCH



1/4" 3/8" 1/2" CrV

Code	Code on the suspension	Square	L (mm)	
18125	ZR18125	1/4"	145	12/300
18345	ZR18345	3/8"	200	10/150
18555	ZR18555	1/2"	200	10/60

1 6 PT. IMPACT SOCKETS

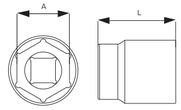
• УДАРНЫЕ ТОРЦЕВЫЕ ГОЛОВКИ С 6-ГРАННЫМ ПРОФИЛЕМ • SCHLAG-SECHSKANTAUFSÄTZE



1/2" 3/4" CrMo SCM-440 PRO DRIVE

- Standard-length and elongated PROLINE hex impact sockets are offered in a wide selection of sizes • Cooperate with pneumatic devices, dedicated to difficult working conditions and changeable loads • Made from strong CrMo steel thanks to which they have longer working lifecycle, twice higher tensile strength and three times higher yield point than the ordinary sockets from chromium and vanadium tool steel • PROLINE sockets have special, profiled, rounded open angles between the work planes - PRO-DRIVE system - to level spot overloads, accumulating in the internal edges of the socket. PRO-DRIVE system ensures increased torque without the socket wall break, improved socket lifecycle and protects the edges of the bolt head
- Square sockets are compatible with most locking mechanisms in renowned pneumatic devices • Delivered in a cardboard box or on a suspension





	Code	Code on the suspension	A (mm)	L (mm)	
1/2"	18410	ZR18410	10	39	60/240
	18411	ZR18411	11	39	60/240
	18412	ZR18412	12	39	60/240
	18413	ZR18413	13	39	60/240
	18414	ZR18414	14	39	60/240
	18415	ZR18415	15	39	40/160
	18416	ZR18416	16	39	40/160
	18417	ZR18417	17	39	40/160
	18418	ZR18418	18	39	40/160
	18419	ZR18419	19	39	40/160
	18420	ZR18420	20	39	40/160
	18421	ZR18421	21	39	40/160
	18422	ZR18422	22	39	30/120
	18423	ZR18423	23	39	30/120
	18424	ZR18424	24	43	30/120
	18425	ZR18425	25	43	30/120
	18426	ZR18426	26	43	24/96
	18427	ZR18427	27	43	24/96
	18428	ZR18428	28	48	24/96
	18429	ZR18429	29	48	22/88
	18430	ZR18430	30	48	24/96
	18432	ZR18432	32	48	20/80
3/4"	18919	ZR18919	19	50	16/64
	18921	ZR18921	21	50	16/64
	18922	ZR18922	22	50	16/64
	18923	ZR18923	23	50	16/64
	18924	ZR18924	24	50	16/64
	18925	ZR18925	25	50	16/64
	18926	ZR18926	26	50	16/64
	18927	ZR18927	27	53	16/64
	18928	ZR18928	28	53	16/64
	18929	ZR18929	29	53	12/48
	18930	ZR18930	30	53	12/48
	18932	ZR18932	32	56	12/48
	18933	ZR18933	33	56	8/32
	18934	ZR18934	34	56	8/32
	18935	ZR18935	35	56	6/24
	18936	ZR18936	36	56	6/24
	18938	ZR18938	38	57	6/24
	18941	ZR18941	41	57	5/20
	18942	ZR18942	42	57	4/16
	18943	ZR18943	43	57	4/16
	18946	ZR18946	46	62	3/12
	18948	ZR18948	48	67	3/12
	18950	ZR18950	50	72	3/12
	18952	ZR18952	52	72	2/8
	18955	ZR18955	55	74	2/4
	18960	ZR18960	60	74	2/4

2 6 PT. DEEP IMPACT SOCKETS

• УДАРНЫЕ ТОРЦЕВЫЕ ГОЛОВКИ УДЛИНЕННЫЕ С 6-ГРАННЫМ ПРОФИЛЕМ • SCHLAG-SECHSKANTAUFSÄTZE VERLÄNGERT



1/2" 3/4" CrMo SCM-440 PRO DRIVE

- Delivered in a cardboard box or on a suspension

	Code	Code on the suspension	A (mm)	L (mm)	
1/2"	18440	ZR18440	10	78	30/120
	18441	ZR18441	11	78	30/120
	18442	ZR18442	12	78	30/120
	18443	ZR18443	13	78	30/120
	18444	ZR18444	14	78	30/120
	18445	ZR18445	15	78	30/120
	18446	ZR18446	16	78	30/120
	18447	ZR18447	17	78	25/100
	18448	ZR18448	18	78	24/96
	18449	ZR18449	19	78	24/96
	18450	ZR18450	20	78	20/80
	18451	ZR18451	21	78	20/80
	18452	ZR18452	22	78	18/72
	18453	ZR18453	23	78	15/60
	18454	ZR18454	24	78	15/60
	18455	ZR18455	25	78	15/60
	18456	ZR18456	26	78	12/48
	18457	ZR18457	27	78	12/48
	18458	ZR18458	28	78	12/48
	18459	ZR18459	29	78	10/40
	18460	ZR18460	30	78	10/40
	18462	ZR18462	32	78	10/40
3/4"	18969	ZR18969	19	90	9/36
	18971	ZR18971	21	90	9/36
	18972	ZR18972	22	90	9/36
	18973	ZR18973	23	90	9/36
	18974	ZR18974	24	90	9/36
	18975	ZR18975	25	90	9/36
	18976	ZR18976	26	90	9/36
	18977	ZR18977	27	90	9/36
	18978	ZR18978	28	90	8/32
	18979	ZR18979	29	90	8/32
	18980	ZR18980	30	90	7/28
	18982	ZR18982	32	90	7/28
	18983	ZR18983	33	90	6/24
	18984	ZR18984	34	90	6/24
	18985	ZR18985	35	90	6/24
	18986	ZR18986	36	90	6/24
	18988	ZR18988	38	90	6/24
	18991	ZR18991	41	90	5/20
	18992	ZR18992	42	90	4/16
	18993	ZR18993	43	90	3/12
	18996	ZR18996	46	90	2/12
	18998	ZR18998	48	90	2/8
	18999	ZR18999	50	90	2/8

1 IMPACT HEX SOCKET BITS 1/2”

• БИТЫ-ГОЛОВКИ УДАРНЫЕ HEX 1/2” • SCHLAG-INNENSECHSKANT BITS 1/2”



1/2” | CrMo SCM-440

• Made of Cr-Mo steel, adapted to operate the hammer

Code	Code on the suspension	Size (mm)	L (mm)	
18400	ZR18400	5	60	100/200
18401	ZR18401	6	60	100/200
18402	ZR18402	7	60	100/200
18403	ZR18403	8	60	100/200
18404	ZR18404	10	60	80/160
18405	ZR18405	12	60	80/160
18406	ZR18406	14	60	80/160
18407	ZR18407	17	60	50/100
18408	ZR18408	19	60	50/100
18409	ZR18409	5	78	100/200
18431	ZR18431	6	78	100/200
18433	ZR18433	7	78	80/160
18434	ZR18434	8	78	80/160
18435	ZR18435	10	78	80/160
18436	ZR18436	12	78	50/100
18437	ZR18437	14	78	50/100
18438	ZR18438	17	78	50/100
18439	ZR18439	19	78	40/80

2 IMPACT TORX SOCKET BITS 1/2”

• БИТЫ-ГОЛОВКИ УДАРНЫЕ TORX 1/2” • SCHLAG-TORX--STECKSCHLÜSSEL-BITS1/2”



1/2” | CrMo SCM-440

• Made of Cr-Mo steel, adapted to operate the hammer

Code	Code on the suspension	Size	L (mm)	
18461	ZR18461	T30	60	100/200
18463	ZR18463	T40	60	100/200
18464	ZR18464	T45	60	100/200
18465	ZR18465	T50	60	100/200
18466	ZR18466	T55	60	80/160
18467	ZR18467	T60	60	80/160
18496	ZR18496	T70	60	80/160
18497	ZR18497	T80	60	80/160
18468	ZR18468	T30	78	100/200
18469	ZR18469	T40	78	100/200
18470	ZR18470	T45	78	80/160
18474	ZR18474	T50	78	80/160
18475	ZR18475	T55	78	50/100
18476	ZR18476	T60	78	50/100

3 IMPACT TORX SOCKET 1/2”

• ГОЛОВКИ УДАРНЫЕ TORX 1/2” • SCHLAG-TORX-STECKSCHLÜSSEL 1/2”



1/2” | CrMo SCM-440

• Made of Cr-Mo steel, adapted to operate the hammer

Code	Code on the suspension	Size (mm)	L (mm)	
18477	ZR18477	E10	60	90/180
18479	ZR18479	E11	60	90/180
18480	ZR18480	E12	60	90/180
18485	ZR18485	E14	60	90/180
18486	ZR18486	E16	60	90/180
18487	ZR18487	E18	60	90/180
18488	ZR18488	E20	60	75/150

4 8 PC. IMPACT HEX SOCKET SETS 1/2”

• НАБОРЫ 8 ШТ. БИТ-ГОЛОВОК УДАРНЫХ HEX 1/2” • 8 STK. SCHLAG-INNENSECHSKANT STECKSCHLÜSSEL-SATZ 1/2”



1/2” | CrMo SCM-440

• Made of Cr-Mo steel, adapted to operate the hammer

Code	Size (mm)	Package	
18489	5, 6, 8, 10, 12, 14, 17, 19	rail/ cardboard	20
18491	5, 6, 8, 10, 12, 14, 17, 19	plastic box	10

5 8 PC. IMPACT TORX SOCKET SETS 1/2”

• НАБОРЫ 8 ШТ. БИТ-ГОЛОВОК УДАРНЫХ TORX 1/2” • 8 STK. SCHLAG T TORX STECKSCHLÜSSEL-SATZ 1/2”



1/2” | CrMo SCM-440

• Made of Cr-Mo steel, adapted to operate the hammer

Code	Type	Package type	
18492	T30, T40, T45, T50, T55, T60, T70, T80	rail/ cardboard	20
18493	T30, T40, T45, T50, T55, T60, T70, T80	plastic box	10

6 IMPACT EXTENSION BARS

• УДЛИНИТЕЛИ УДАРНЫЕ • SCHLAG-VERLÄNGERUNGEN



1/2” | 3/4” | CrMo SCM-440

• Enable work in places difficult to access
• Made from strong CrMo steel thanks to which they do not break during impact work

Code	Code on the suspension	Socket	L (mm)	
1/2”				
18471	ZR18471	1/2”	75	40/160
18472	ZR18472	1/2”	125	28/112
18473	ZR18473	1/2”	250	30/60
3/4”				
18901	ZR18901	3/4”	100	5/20
18902	ZR18902	3/4”	175	8/16
18903	ZR18903	3/4”	250	6/12
18904	ZR18904	3/4”	330	5/20

7 IMPACT UNIVERSAL JOINTS

• КАРДАНЫ УДАРНЫЕ • SCHLAG-KUGELGELENKE



1/2” | 3/4” | CrMo SCM-440

• Enable to work at 0 to 25 degrees

Code	Code on the suspension	Socket	L (mm)	
18478	ZR18478	1/2”	63	25/100
18906	ZR18906	3/4”	102	4/32

8 IMPACT ADAPTORS

• УДАРНЫЕ АДАПТЕРЫ-ПЕРЕХОДНИКИ • SCHLAG-VERBINDUNGS-STÜCKE (REDUKTIONEN)



1/2” | 3/4” | CrMo SCM-440

• Enable cooperation of ratchets, sockets and other accessories with different dimensions

Code	Code on the suspension	Socket (F)	Foot (M)	
18481	ZR18481	1/2”	3/8”	60/240
18482	ZR18482	1/2”	3/4”	40/160
18484	ZR18484	3/4”	1/2”	12/48
18907	ZR18907	3/4”	1”	12/48

1 IMPACT SOCKET SETS

• НАБОР УДАРНЫХ ТОРЦЕВЫХ ГОЛОВОК • SCHLAG-STECKSCHLÜSSELSÄTZE



1/2" 3/4" CrMo SCM-440 PRO DRIVE

• **18490** - 1/2" - 10, 12, 13, 14, 15, 16, 17, 18, 19, 22 (L = 39) • **18908** - 3/4" - 22, 24, 27, 30, 31 (L = 52) • 41 (L = 62)
• Delivered in metal boxes

Code	Square	Range (mm)	Quantity (pcs)	
18490	1/2"	10 - 22	10	12
18908	3/4"	22 - 41	8	4

2 DEEP IMPACT SOCKET SETS

• НАБОР УДАРНЫХ ТОРЦЕВЫХ ГОЛОВОК УДЛИНЕННЫХ • SCHLAG-STECKSCHLÜSSELSÄTZE VERLÄNGERT



1/2" 3/4" CrMo SCM-440 PRO DRIVE

• **18494** - 1/2" - 10, 12, 13, 14, 15, 16, 17, 18, 19, 23, 24 (L = 78) • **18495** - 1/2" - 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm (L = 78) • **18909** - 3/4" - 22, 24, 27, 30, 32, 36 • (L = 90) • 38, 41 mm (L = 92) • Delivered in metal boxes

Code	Square	Range (mm)	Quantity (pcs)	
18494	1/2"	10 - 24	11	8
18495	1/2"	10 - 32	15	4
18909	3/4"	22 - 41	8	3

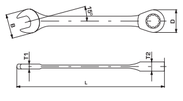
PROLINE

1 RATCHET COMBINATION SPANNERS

PROLINE HD

• КОМБИНИРОВАННЫЕ ТРЕЩОТОЧНЫЕ КЛЮЧИ • MAULRINGSCHLÜSSEL MIT RATSCHE









10 lat GWARANCJI 10 LAT GUARANTEE

72

CrV 6140

HRC 47±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)	BOX	
35468	8	134.4	16.7	17.1	4.7	7.4	x	10/100
35469	9	158.5	21.0	21.0	5.5	7.4	x	10/100
35470	10	158.5	21.0	21.0	5.5	7.4	x	10/100
35471	11	164.6	23.0	22.6	6.0	8.7	x	10/100
35472	12	167.7	25.0	23.8	6.2	8.7	x	10/100
35473	13	177.4	27.5	24.9	6.0	8.7	x	10/100
35474	14	189.5	29.0	27.0	7.0	8.7	x	10/100
35475	15	198.4	31.5	28.1	7.2	10.3	x	10/100
35476	16	205.4	33.0	29.9	7.5	10.3	x	10/100
35477	17	224.4	34.9	31.9	8.0	10.3	x	10/100
35478	18	235.4	36.5	33.4	8.6	10.6	x	10/100
35479	19	246.4	38.9	34.4	8.8	10.6	x	8/80

2 FLEXIBLE RATCHET COMBINATION SPANNERS SET

PROLINE HD

• НАБОР КОМБИНИРОВАННЫХ ТРЕЩОТОЧНЫХ КЛЮЧЕЙ
• FLEXIBLER KNARREN-KOMBINATIONSSCHLÜSSEL SET





10 lat GWARANCJI 10 LAT GUARANTEE

72

CrV 6140

HRC 47±2

• Forged • Chromium-plated • Satin • Minimum work angle: 5°
• **7 pcs.:** 8, 10, 12, 13, 14, 17, 19 mm

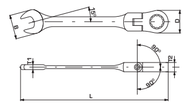
Code	Quantity (pcs)	Range (mm)	BOX	
35487	7	8 - 19	x	20

3 FLEXIBLE RATCHET COMBINATION SPANNERS

PROLINE HD

• КОМБИНИРОВАННЫЕ ТРЕЩОТОЧНЫЕ КЛЮЧИ С ШАРНИРОМ • MAULRINGSCHLÜSSEL MIT RATSCHE UND GELENK









10 lat GWARANCJI 10 LAT GUARANTEE

72

CrV 6140

HRC 47±2

• Forged • Chromium-plated • Satin • Joint range of motion: ±90°
• Minimum work angle: 15°

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)	BOX	
35448	8	135	17.0	17.4	4.9	7.4	x	10/100
35449	9	158	20.8	20.9	5.8	7.4	x	10/100
35450	10	160	20.8	20.9	5.8	7.4	x	10/100
35451	11	175	25.1	23.4	6.2	8.7	x	10/100
35452	12	175	25.1	23.4	6.2	8.7	x	10/100
35453	13	185	27.2	24.9	6.4	8.7	x	10/100
35454	14	193	29.3	27.4	7.0	8.7	x	10/100
35455	15	220	33.0	30.4	7.4	10.3	x	10/100
35456	16	213	33.0	30.4	7.4	10.3	x	10/100
35457	17	230	35.2	31.9	8.2	10.3	x	10/100
35458	18	249	39.4	34.5	9.0	10.5	x	10/80
35459	19	250	39.4	34.5	9.0	10.5	x	10/80

4 FLEXIBLE RATCHET COMBINATION SPANNERS SET

PROLINE HD

• НАБОР КОМБИНИРОВАННЫХ ТРЕЩОТОЧНЫХ КЛЮЧЕЙ С ШАРНИРОМ
• FLEXIBLER KNARREN-KOMBINATIONSSCHLÜSSEL SET





10 lat GWARANCJI 10 LAT GUARANTEE

72

CrV 6140

HRC 47±2

• Forged • Chromium-plated • Satin • Joint range of motion: ±90°
• Minimum work angle: 5° • **7 pcs.:** 8, 10, 12, 13, 14, 17, 19 mm

Code	Quantity (pcs)	Range (mm)	BOX	
35497	7	8 - 19	x	20

1 RATCHET COMBINATION SPANNERS WITH SWITCH

PROLINE HD

- КОМБИНИРОВАННЫЕ ТРЕЩОТОЧНЫЕ КЛЮЧИ С ПЕРЕКЛЮЧАТЕЛЕМ
- KNARREN-KOMBINATIONSSCHLÜSSEL MIT SCHALTER



10 lat GUARANTEE · 72 · CrV 6140 · HRC 44±2

- Forged • Chromium-plated • Satin • Minimum work angle: 5°
- Ratchet mechanism reversible by a switch

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)	T (mm)	C (mm)		
35688	8	135	18.5	17.7	7.7	5.1	3.0	8.3	x	10/100
35689	9	142	20.5	19.1	7.7	5.3	3.3	9.2	x	10/100
35690	10	158	22.5	21.2	8.2	5.8	3.6	9.8	x	10/100
35691	11	167	25.0	22.6	8.2	5.9	3.9	11.2	x	10/100
35692	12	173	26.9	23.8	8.8	6.1	4.1	11.9	x	10/100
35693	13	179	29.0	25.9	8.9	6.6	4.4	12.5	x	10/100
35694	14	189	31.5	27.7	9.3	7.5	4.8	13.1	x	10/100
35695	15	199	34.0	29.2	9.4	7.9	5.0	14.5	x	10/100
35696	16	215	35.7	31.8	9.9	7.9	5.2	15.1	x	10/100
35697	17	232	38.3	34.1	10.6	8.0	5.4	15.7	x	10/50
35698	18	238	40.1	34.0	11.0	8.5	5.5	16.0	x	10/50
35699	19	247	42.0	35.1	11.2	8.9	6.0	17.7	x	10/50

2 STUBBY RATCHET COMBINATION SPANNERS

PROLINE HD

- КОМБИНИРОВАННЫЕ ТРЕЩОТОЧНЫЕ КЛЮЧИ КОРОТКИЕ
- KURZE KNARREN-KOMBINATIONSSCHLÜSSEL



10 lat GUARANTEE · 72 · CrV 6140 · HRC 44±2

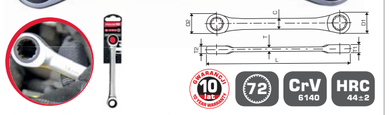
- Forged • Chromium-plated • Satin • Minimum work angle: 5°

Code	Size (mm)	L (mm)	D (mm)	B (mm)	T1 (mm)	T2 (mm)	T (mm)	C (mm)		
35378	8	88	17.5	18	7.0	5.1	3.2	8.6	x	20/100
35380	10	96	21	21.3	7.7	5.5	4	10.6	x	20/100
35381	11	100	22.7	23.7	8.3	5.9	4.3	11.5	x	20/100
35382	12	104	24	25.4	8.7	6.1	4.5	12.2	x	20/100
35383	13	108	26	26.8	9.3	6.3	4.7	12.8	x	20/100
35384	14	114	27.7	29.8	9.4	6.7	5.2	14.2	x	20/100
35385	15	118	29.1	31.6	10.0	7.1	5.3	14.8	x	20/100
35386	16	122	30.7	33.8	10.6	7.9	5.4	15.4	x	20/100
35387	17	128	32.6	36.2	10.9	7.8	5.6	16.0	x	20/100
35389	19	138	34.8	40	11.5	8.5	6.3	17.4	x	20/100

3 RATCHET RING SPANNERS

PROLINE HD

- КЛЮЧИ НАКИДНЫЕ С ТРЕЩОТКОЙ • KNARREN-RINGSCHLÜSSEL



10 lat GUARANTEE · 72 · CrV 6140 · HRC 44±2

- Forged • Chromium-plated • Satin • Minimum work angle: 5°

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)	T (mm)	C (mm)		
36658	8 x 9	128	21.0	17.5	7.7	7.0	4.0	10.6	x	20/100
36659	8 x 10	128	21.0	17.5	7.7	7.0	4.0	10.6	x	20/100
36660	10 x 13	160	26.0	21.0	9.3	7.7	4.7	12.8	x	20/100
36662	12 x 13	170	26.0	24.0	9.3	8.7	4.7	12.8	x	20/100
36664	14 x 15	190	30.7	27.7	10.0	9.4	5.4	15.4	x	20/100
36666	16 x 18	230	34.8	32.6	11.2	10.6	6.3	17.4	x	20/100
36667	17 x 19	230	34.8	32.6	11.5	10.9	6.3	17.4	x	20/100
36670	20 x 24	290	47.5	42.0	14.5	13.0	7.0	20.6	x	10/50
36672	22 x 24	290	47.5	42.0	14.5	13.0	7.0	20.6	x	10/50

4 RATCHET RING SPANNERS SET

PROLINE HD

- НАБОР КЛЮЧЕЙ НАКИДНЫХ С ТРЕЩОТКОЙ • KNARREN-RINGSCHLÜSSEL-SATZ



10 lat GUARANTEE · 72 · CrV 6140 · HRC 44±2

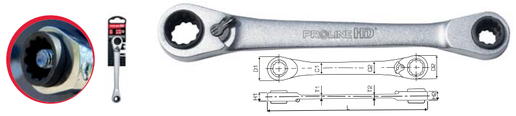
- Forged • Chromium-plated • Satin • Minimum work angle: 5°
- **5 pcs.:** 8x10, 12x13, 14x15, 16x18, 17x19 mm

Code	Quantity (pcs)	Range (mm)	BOX	
36650	5	8 - 19	x	10

5 4 IN1 RATCHET SPANNERS

PROLINE HD

- КЛЮЧИ С ТРЕЩОТКОЙ «4 В ОДНОМ» • 4 IN 1 KNARRENSCHLÜSSEL



10 lat GUARANTEE · 4in1 · 72 · CrV 6140 · HRC 44±2

- Forged • Chromium-plated • Satin • Minimum work angle: 5° • Four dimensions in a single spanner with a mechanism reversible by a switch

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	H1 (mm)	H2 (mm)	C1 (mm)	C2 (mm)	T1 (mm)	T2 (mm)		
36811	8 x 10 x 12 x 13	160	21.5	26.5	8.9	9.8	10.1	12.8	3.4	4.0	x	10/100
36812	10 x 13 x 17 x 19	210	26.5	35.6	9.8	12.2	15.3	18.0	4.0	5.8	x	5/50
36813	16 x 17 x 18 x 19	230	34.5	35.6	11.7	12.2	16.0	18.0	5.2	5.8	x	5/50

1 COMBINATION SPANNERS

PROLINE HD

• КОМБИНИРОВАННЫЕ ГАЕЧНЫЕ РОЖКОВО-НАКИДНЫЕ КЛЮЧИ • MAULRINGSCHLÜSSEL

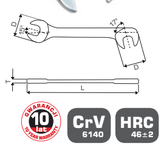


1 DOUBLE OPEN END SPANNERS FOR MICROMECHANICAL WORKS

PROLINE HD

- РОЖКОВЫЕ ГАЕЧНЫЕ КЛЮЧИ ДЛЯ МИКРОМЕХАНИКИ
- DOPPELMAULSCHLÜSSEL FÜR MIKROMECHANISCHE ARBEITEN

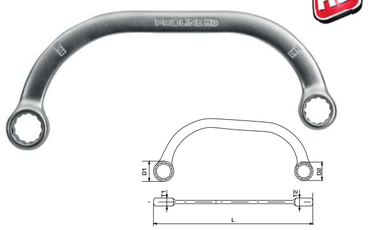




1 'C' TYPE RING SPANNERS

• КЛЮЧИ ГАЕЧНЫЕ НАКИДНЫЕ ИЗОГНУТЫЕ (СТАРТЕРНЫЕ) • RINGSCHLÜSSEL TYP C

PROLINE HD





CrV 6140 HRC 46±2

• Forged • Chromium-plated • Satin

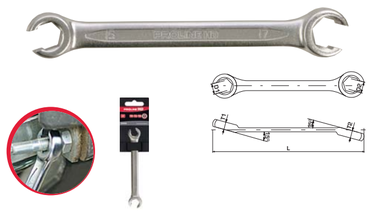
Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36068	8 x 10	137	14.3	15.6	6.5	6.2	x	10/200
36070	10 x 12	141	18.2	15.6	6.6	6.5	x	10/200
36071	11 x 13	166	21.0	18.2	8.2	8.0	x	10/100
36073	13 x 15	190	25.0	22.0	9.2	8.2	x	10/100
36074	14 x 17	190	25.0	22.0	9.2	8.2	x	10/100
36079	19 x 22	256	32.5	28.6	11.1	10.1	x	6/60

2 FLARE NUT SPANNERS

• КЛЮЧИ ГАЕЧНЫЕ НАКИДНЫЕ С РАЗРЕЗОМ

• DOPPELRINGSCHLÜSSEL

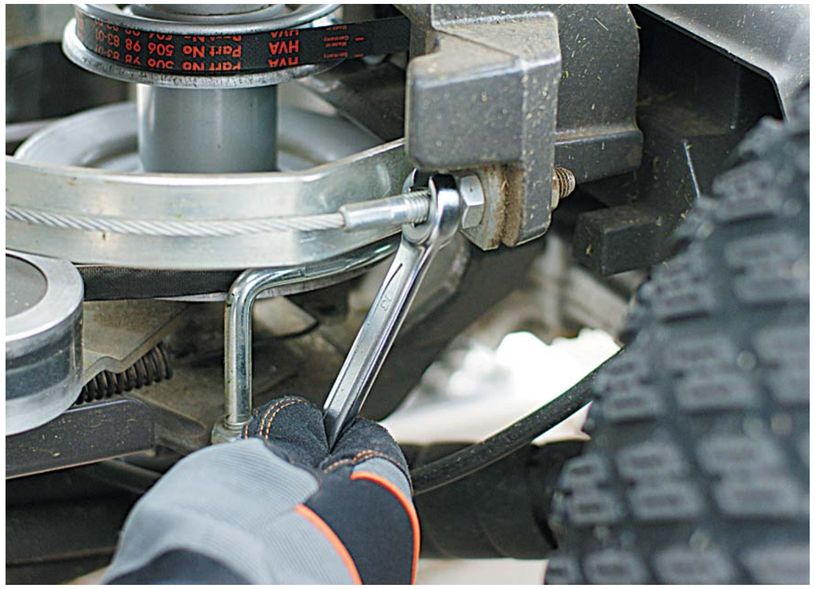
PROLINE HD



CrV 6140 DIN 3118 HRC 46±2

• Forged • Chromium-plated • Satin

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T 1 (mm)	T2 (mm)		
36046	6 x 8	126	4.5	6.0	6.6	8.2	x	10/200
36048	8 x 9	145	6.0	6.5	7.0	8.5	x	10/200
36049	9 x 11	152	6.5	8.5	8.5	9.0	x	10/200
36050	10 x 12	152	7.0	9.0	8.5	9.0	x	10/200
36052	12 x13	165	9.0	10.0	9.0	10.5	x	10/200
36053	13 x 14	178	10.0	11.0	9.5	11.0	x	10/100
36055	15 x 17	196	12.0	14.0	11.0	12.0	x	10/100
36059	19 x 21	233	15.0	16.0	14.0	16.0	x	10/60
36062	22 x 24	252	17.0	18.0	16.0	17.0	x	10/80



1 RING TORX SPANNERS

PROLINE HD

• КЛЮЧИ НАКИДНЫЕ TORX • RING-TORXSCHLÜSSEL



• Forged • Chromium-plated • Satin

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36686	E6 x E8	113	11.2	9.2	5.6	4.6	x	20/200
36690	E10 x E12	142	16.7	14.4	7.8	6.5	x	20/200
36694	E14 x E18	182	21.2	17.2	9.8	8.2	x	20/200
36695	E20 x E24	224	28.7	24.8	13.0	11.0	x	10/100

2 RING TORX SPANNERS

PROLINE HD

• НАБОР КЛЮЧЕЙ НАКИДНЫХ TORX • RING-TORXSCHLÜSSEL







• Forged • Chromium-plated • Satin
• **4 pcs.**: E6xE8, E10xE12, E14xE18, E20xE24 mm

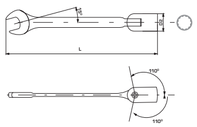
Code	Quantity (pcs)	Range (mm)	BOX	
36680	4	E6 x E8 - E20 x E24	x	10

3 FLEXIBLE SOCKET COMBINATION SPANNERS

PROLINE HD

• КЛЮЧИ ГАЕЧНЫЕ КОМБИНИРОВАННЫЕ РОЖКОВО-ТОРЦЕВЫЕ ШАРНИРНЫЕ • FLEXIBLE STECKSCHLÜSSEL-KOMBINATIONSSCHLÜSSEL









CrV 6140 | HRC 46±2

• Forged • Chromium-plated • Satin • Ground heads
• Socket: 50BV30 • Head range of motion: 220° ±5°

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)		
36090	10	180	15	15	x	30/120
36093	13	210	19	19	x	25/100
36097	17	235	24	24	x	25/50
36099	19	235	26	26	x	25/50

4 FLEXIBLE SOCKET SPANNERS

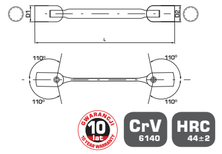
PROLINE HD

• КЛЮЧИ ШАРНИРНО-ТОРЦЕВЫЕ • FLEXIBLE STECKSCHLÜSSEL









CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • Ground heads • Socket: 50BV30
• Head range of motion: 220° ±5°

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)		
36136	6 x 7	180	9.5	10.9	x	25/100
36138	8 x 9	180	13.0	14.0	x	25/100
36140	10 x 11	200	15.0	16.0	x	25/100
36142	12 x 13	220	18.0	19.0	x	30/120
36144	14 x 15	242	20.0	22.0	x	25/100
36146	16 x 17	254	24.0	24.0	x	25/50
36147	17 x 19	260	24.0	26.0	x	30/60
36148	18 x 19	275	26.0	26.0	x	25/50
36150	20 x 22	305	28.0	30.5	x	12/24
36151	21 x 23	305	29.8	33.0	x	12/24
36154	24 x 27	335	33.0	37.0	x	12/24
36160	30 x 32	350	40.0	42.0	x	6/12

5 FLEXIBLE SOCKET SPANNER SET

PROLINE HD

• НАБОР ГАЕЧНЫХ НАКИДНЫХ ИЗОГНУТЫХ (СТАРТЕРНЫХ) КЛЮЧЕЙ
• FLEXIBLER STECKSCHLÜSSEL-SÄTZE







• Forged • Chromium-plated • Satin
• Ground heads • Socket: 50BV30
• Head range of motion: 220° ±5°
• **6 pcs.**: 8x9, 10x11, 12x13, 14x15, 16x17, 18x19 mm

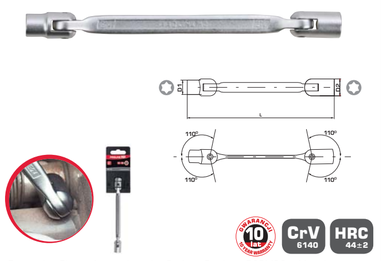
CrV 6140 | HRC 44±2

Code	Quantity (pcs)	Range (mm)	BOX	
36166	6	8x9 - 18x19	x	12

1 FLEXIBLE TORX SOCKET SPANNERS

PROLINE HD

• КЛЮЧИ КОМБИНИРОВАННЫЕ ТОРЦЕВЫЕ- TORX ШАРНИРНЫЕ
• FLEXIBLE TORX-STECKSCHLÜSSEL





10 lat GWARANCJI 10 LAT GUARANTEE | CrV 6140 | HRC 44±2

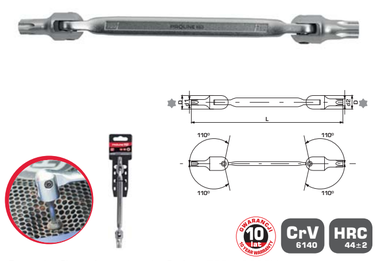
• Forged • Chromium-plated • Satin • Socket: 50BV30 • Head range of motion: 220° ±5°

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	BOX	
36116	E6 x E8	182	8.3	9.9	x	25/100
36120	E10 x E12	200	12.0	15.0	x	25/100
36124	E14 x E16	220	16.3	19.0	x	25/100
36128	E18 x E20	240	20.5	22.0	x	25/50
36132	E22 x E24	258	25.0	26.0	x	25/50

2 FLEXIBLE TORX SPANNERS

PROLINE HD

• КЛЮЧИ ШАРНИРНЫЕ TORX • FLEXIBLE TORX-SCHLÜSSEL

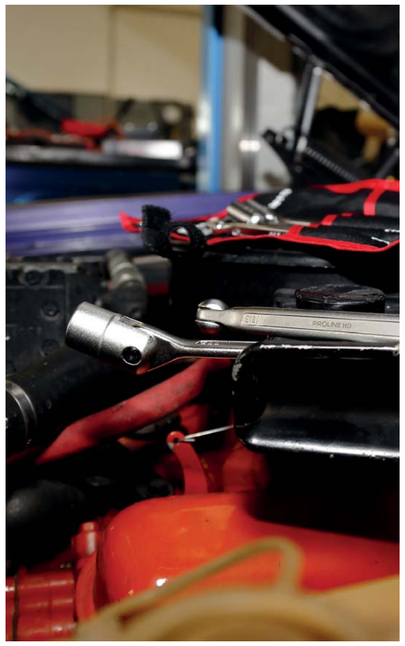




10 lat GWARANCJI 10 LAT GUARANTEE | CrV 6140 | HRC 44±2

• Forged • Chromium-plated • Satin • TORX: 8660V
• Head range of motion: 220° ±5°

Code	Size (mm)	L (mm)	d1 (mm)	d2 (mm)	D (mm)	BOX	
36106	T15 x T20	220	3.26	3.8	15	x	25/100
36107	T25 x T27	220	4.40	5.0	15	x	25/100
36108	T30 x T40	220	5.48	6.6	15	x	25/100
36109	T45 x T50	240	7.70	8.8	18	x	25/50
36110	T55 x T60	240	11.17	13.2	18	x	25/50



3 FLEXIBLE TORX SPANNER SET

PROLINE HD

• НАБОР КЛЮЧЕЙ ШАРНИРНЫХ TORX •FLEXIBLER TORX-SCHLÜSSELSATZ







10 lat GWARANCJI 10 LAT GUARANTEE | CrV 6140 | HRC 44±2

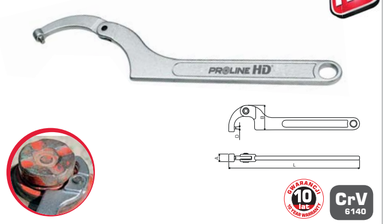
• Forged • Chromium-plated • Satin • Head range of motion: 220° ±5° • The maximum torque is 30% higher than in German DIN 896 standard
• **5 pcs.**: T15xT20, T25xT27, T30xT40, T45xT50, T55xT60

Code	Quantity (pcs)	Range (mm)	BOX	
36105	5	T15xT20 - T55xT60	x	12

1 FLEXIBLE HOOK „PIN" WRENCHES

PROLINE HD

- КЛЮЧИ ШАРНИРНЫЕ ДЛЯ КРУГЛЫХ ШЛИЦЕВЫХ ГАЕК, СО «ШТИФТОМ»
- FLEXIBELE HAKEN „PIN" SCHLÜSSEL



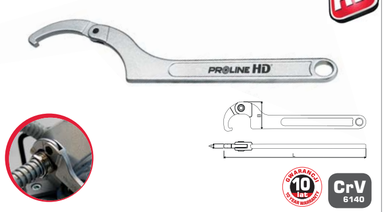
• Forged • Chromium-plated • Satin

Code	Range (mm)	L (mm)	A (mm)	B (mm)	Ø D (mm)	
36805	15-35	168	9.8	31	2.8	10/100
36806	35-50	202	10.7	39	3.8	10/50
36807	50-80	280	14.0	55	4.8	10/50
36808	80-120	345	17.2	75	5.8	10/20
36809	120-180	465	19.2	110	7.8	10

2 FLEXIBLE HOOK „CLAW" WRENCHES

PROLINE HD

- КЛЮЧИ ШАРНИРНЫЕ ДЛЯ КРУГЛЫХ ШЛИЦЕВЫХ ГАЕК, С «КОГТЕМ»
- FLEXIBLE HAKEN „KRALLE" SCHLÜSSEL



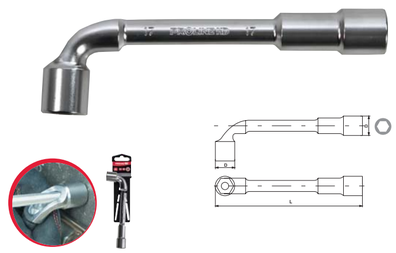
• Forged • Chromium-plated • Satin

Code	Range (mm)	L (mm)	A (mm)	B (mm)	
36800	15-35	168	5.2	31	10/100
36801	35-50	202	5.9	39	10/100
36802	50-80	280	7.5	55	10/50
36803	80-120	345	8.2	75	10/20
36804	120-180	465	10.8	110	10

3 'L' TYPE SPANNERS

- КЛЮЧИ ДВОЙНЫЕ ТОРЦЕВЫЕ ИЗОГНУТЫЕ • WINKEL-STECKSCHLÜSSEL DOPPELSEITIG

PROLINE HD



•Forged • Chromium-plated • Satin • With one-side opening

Code	Size (mm)	L (mm)	D (mm)		
36168	8	114	12.5	x	10/100
36170	10	129	15.0	x	10/100
36172	12	144	18.0	x	10/100
36173	13	152	19.5	x	10/100
36174	14	160	21.0	x	10/100
36175	15	169	22.5	x	10/60
36177	17	187	25.5	x	10/40
36179	19	204	28.0	x	10/40
36182	22	230	32.0	x	10/20
36184	24	250	34.5	x	10/20
36187	27	280	38.0	x	5/10
36190	30	310	42.0	x	5/10
36192	32	330	44.5	x	5/10

4 TUBE SPANNERS

PROLINE HD

- КЛЮЧИ ТОРЦЕВЫЕ ТРУБЧАТЫЕ • ROHRSCHLÜSSEL





• Forged • Chromium-plated • Satin

Code	Size (mm)	L (mm)	d (mm)	D1 (mm)	D2 (mm)		
36216	6 x 7	105	3	10	11	x	20/400
36218	8 x 9	110	3	13	14	x	10/300
36220	10 x 11	120	5	15	16	x	10/300
36222	12 x 13	140	6	18	19	x	10/120
36224	14 x 15	145	6	20	22	x	10/120
36226	16 x 17	155	7	23	24	x	12/120
36228	18 x 19	165	8	25	26	x	10/100
36230	20 x 22	170	8	28	30	x	10/100
36234	24 x 26	190	12	33	35	x	5/40
36237	27 x 29	210	12	37	39	x	5/40
36240	30 x 32	210	13	40	42	x	5/30

5 TUBE SPANNER SET

PROLINE HD

- НАБОР ТОРЦЕВЫХ ТРУБЧАТЫХ КЛЮЧЕЙ • ROHRSCHLÜSSELSATZ DOPPELSEITIG





• Forged • Chromium-plated • Satin
• **5 pcs.**: 8x9, 10x11, 12x13, 14x15, 16x17mm



Code	Quantity (pcs)	Range (mm)		
36215	5	8x9 - 16x17	x	10

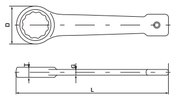
1 RING SLUGGING SPANNERS

• КЛЮЧИ НАКИДНЫЕ УДАРНЫЕ • SCHLAG-RINGSCHLÜSSEL

PROLINE HD







10 LAT GWARANCJI / 10 YEARS WARRANTY · CrMo · DIN 7444*

- Forged • Phosphated • Reinforced slogging head • Made from CrMo steel

* not applicable to: 36922, 36924, 36938

	Code	Size (mm)	L (mm)	D (mm)	T (mm)	G (mm)	
HRC 38±2	**36922**	22	160	42.0	15.5	8.0	5/50
	36924	24	162	42.0	15.5	8.0	5/50
	36927	27	178	45.5	16.5	9.5	5/50
	36930	30	187	51.5	17.0	9.5	5/50
	36932	32	190	51.5	17.5	9.5	5/50
	36936	36	203	57.0	18.0	10.5	5/40
	36938	38	204	57.0	18.0	10.5	5/40
	36941	41	230	66.0	21.0	12.0	5/20
	36946	46	237	73.0	22.0	13.5	5/20
HRC 34±2	**36950**	50	253	79.5	24.5	15.5	2/16
	36955	55	270	88.0	25.5	16.5	2/12
	36960	60	280	93.0	27.5	18.0	2/12
	36965	65	280	101.0	28.5	17.5	2/12

2 WRENCH FOR RING NUTS WITH FRONT HOLES

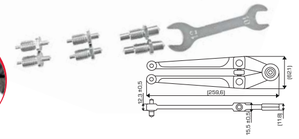
• КЛЮЧ ДЛЯ ТОРЦЕВЫХ ГАЕК С ОТВЕРСТИЯМИ • SCHLÜSSEL FÜR RINGMUTTERN MIT FRONTLÖCHERN

PROLINE HD









10 LAT GWARANCJI / 10 YEARS WARRANTY · 18-100 mm · x4 · CrV 6140

- Forged • Chromium-plated • Satin • Designed for unscrewing and tightening nuts with frontal openings • Adjusted with a knob
- Adjustment range from 18 to 100 mm • The box contains 4 pairs of replaceable, round and two-sided pins of different sizes and a spanner

Code	Pins' size (mm)	Range (mm)	
36810	2.5, 3, 4, 5, 6, 7, 8, 9	18-100	20

Spanners PROLINE HD

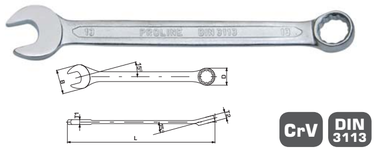


Forged, chromium-plated, satin

From high quality CrMo steel 6140

1 COMBINATION SPANNERS

• КОМБИНИРОВАННЫЕ ГАЕЧНЫЕ РОЖКОВО- НАКИДНЫЕ КЛЮЧИ • MAULRINGSCHLÜSSEL



CrV DIN 3113

• Cold forged • Ground heads • Chromium-plated

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)		
35406	6	100	15.0	9.5	3.4	5.2	x	20/600
35407	7	110	17.5	10.5	3.6	5.7	x	20/600
35408	8	120	19.5	12.0	3.8	6.2	x	20/600
35409	9	129	21.5	13.5	4.0	6.7	x	20/400
35410	10	139	22.5	15.0	4.2	7.2	x	20/320
35411	11	149	24.0	16.5	4.5	7.7	x	20/320
35412	12	159	27.0	18.0	4.8	8.2	x	20/240
35413	13	169	29.0	19.5	5.0	8.7	x	20/240
35414	14	179	31.0	21.0	5.2	9.2	x	20/180
35415	15	189	33.0	22.5	6.0	9.7	x	20/180
35416	16	199	33.3	24.0	6.3	10.2	x	20/120
35417	17	209	37.0	25.5	6.7	10.7	x	20/120
35418	18	219	37.3	27.0	7.0	11.2	x	10/120
35419	19	228	39.0	28.5	7.4	11.5	x	10/100
35420	20	238	40.8	30.0	7.8	12.0	x	10/100
35421	21	248	43.0	31.5	8.5	12.5	x	10/80
35422	22	259	47.0	33.0	8.8	13.0	x	10/80
35423	23	269	47.5	34.5	8.7	13.5	x	10/60
35424	24	278	49.0	36.0	8.6	14.0	x	10/60
35427	27	309	57.0	40.5	8.8	15.5	x	10/40
35430	30	338	62.0	43.0	9.2	17.0	x	5/40
35432	32	348	65.0	46.0	9.5	18.0	x	5/40

2 COMBINATION SPANNER SETS

• НАБОР КОМБИНИРОВАННЫХ ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • MAULRINGSCHLÜSSELSATZ



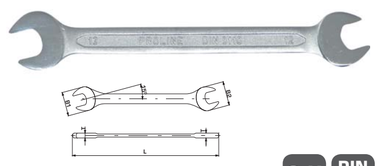
CrV DIN 3113

• Cold forged • Ground heads • Chromium-plated
• **6 pcs.**: 8, 10, 12, 13, 14, 17 mm
• **8 pcs.**: 6, 8, 10, 12, 13, 14, 17, 19 mm
• **12 pcs.**: 6, 8, 9, 10, 12, 13, 14, 15, 17, 18, 19, 22 mm

Code	Quantity (pcs)	Range (mm)	
35306	6	8 - 17	4/32
35308	8	6 - 19	4/24
35312	12	6 - 22	2/16

3 DOUBLE OPEN END SPANNERS

• КЛЮЧИ ГАЕЧНЫЕ РОЖКОВЫЕ • MAULSCHLÜSSEL



CrV DIN 3110

• Cold forged • Ground heads • Chromium-plated

Code	Size (mm)	L (mm)	B1 (mm)	B2 (mm)	T (mm)		
34306	6 x 7	123	17.3	15.5	3.5	x	20/600
34308	8 x 9	139	21.2	19.5	3.8	x	20/400
34309	8 x 10	138	21.2	19.2	3.8	x	20/400
34310	10 x 11	155	24.8	21.8	4.5	x	20/320
34312	12 x 13	170	28.0	26.8	5.0	x	20/240
34313	10 x 13	171	28.0	22.3	5.3	x	20/240
34314	14 x 15	188	31.8	30.5	5.3	x	20/160
34316	16 x 17	203	36.8	34.5	6.5	x	20/160
34317	13 x 17	203	36.8	30.5	6.2	x	20/160
34318	18 x 19	222	40.4	38.5	6.3	x	20/120
34319	17 x 19	223	40.4	38.5	6.3	x	20/120
34320	20 x 22	233	44.5	40.5	7.2	x	10/80
34321	21 x 23	251	47.5	43.9	8.2	x	10/80
34322	19 x 22	234	44.8	40.8	7.5	x	10/80
34324	24 x 27	264	55.7	51.0	8.5	x	10/60
34325	25 x 28	280	57.5	52.0	8.5	x	10/40
34327	27 x 32	301	64.5	55.0	9.5	x	10/40
34330	30 x 32	301	64.5	60.5	9.5	x	10/40

4 COMBINATION SPANNER SET

• НАБОР КОМБИНИРОВАННЫХ ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • MAULRINGSCHLÜSSELSATZ



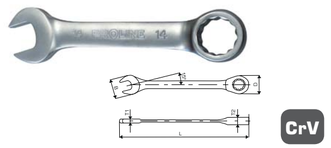
CrV DIN 3113

• Cold forged • Ground heads • Chromium-plated
• **24 pcs.**: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32 mm

Code	Quantity (pcs)	Range (mm)	BOX	
35324	24	6 - 32	x	4

1 STUBBY COMBINATION SPANNERS

• КЛЮЧИ НАКИДНЫЕ ПЛОСКИЕ КОРОТКИЕ • KURZE KOMBINATIONSSCHLÜSSEL



CrV

• Forged cold • Chromium-plated

Code	Size (mm)	L (mm)	B (mm)	D (mm)	T1 (mm)	T2 (mm)	BOX	
35348	8	88	17.6	14.2	4.6	6.7	x	10/120
35349	9	92	19.4	15.5	4.7	7	x	10/120
35350	10	101	21.3	16.5	5	7.5	x	10/120
35351	11	106	23.2	18.9	5.6	8	x	10/120
35352	12	109	25	19.8	5.9	8.5	x	10/120
35353	13	115	26.9	20.9	6.2	9	x	10/120
35354	14	118	29.4	22.8	6.4	9.5	x	10/120
35355	15	123	30.2	24.8	6.6	10	x	10/120
35356	16	127	33.4	25.8	6.8	10.5	x	10/120
35357	17	134	35.5	27.2	7.1	11	x	10/120
35358	18	138	37.5	28.7	7.5	11.5	x	10/120
35359	19	140	38	30.2	7.8	12	x	10/120

2 STUBBY COMBINATION SPANNER SET

• НАБОР КЛЮЧЕЙ НАКИДНЫХ ПЛОСКИХ КОРОТКИХ
• KURZER KOMBINATIONSSCHLÜSSEL-SATZ



CrV

• Forged cold • Chromium-plated
• **6 pcs.**: 10, 12, 13, 14, 15, 17 mm

Code	Quantity (pcs)	Range (mm)	BOX	
35340	6	10 - 17	x	40

3 DOUBLE OPEN END SPANNER SETS

• НАБОР ГАЕЧНЫХ РОЖКОВЫХ КЛЮЧЕЙ • MAULSCHLÜSSELSÄTZE



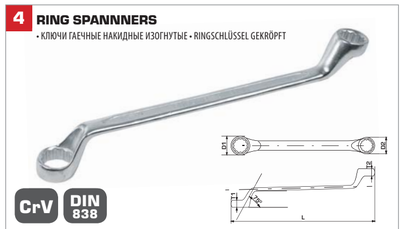
CrV DIN 3110

• Cold forged • Ground heads
• Chromium-plated
• **6 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17 mm
• **8 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 mm
• **12 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm

Code	Quantity (pcs)	Range (mm)	
34406	6	6x7 - 16x17	4/32
34408	8	6x7 - 20x22	4/16
34412	12	6x7 - 30x32	2/8

4 RING SPANNNERS

• КЛЮЧИ ГАЕЧНЫЕ НАКИДНЫЕ ИЗОГНУТЫЕ • RINGSCHLÜSSEL GEKRÖPFT



CrV DIN 838

• Cold forged • Ground heads • Chromium-plated

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)	BOX	
36566	6 x 7	175	12.1	10.4	6.2	5.2	x	20/320
36568	8 x 9	182	14.7	13.4	7.2	6.3	x	20/300
36570	10 x 11	195	17.6	16.2	9.2	8.1	x	10/200
36572	12 x 13	222	20.5	19.2	10.0	9.9	x	10/160
36574	14 x 15	223	23.2	22.0	10.8	10.5	x	10/120
36576	16 x 17	244	26.4	25.2	12.1	11.6	x	10/80
36578	18 x 19	278	29.5	27.5	12.6	12.5	x	10/80
36580	20 x 22	287	33.5	30.5	14.5	13.4	x	10/60
36581	21 x 23	307	34.0	31.2	14.3	12.8	x	5/40
36584	24 x 27	330	40.8	37.5	15.5	14.5	x	5/40
36585	25 x 28	345	42.5	38.2	15.5	14.5	x	5/40
36590	30 x 32	370	47.5	44.3	16.5	16.3	x	5/30

5 RING SPANNER SETS

• НАБОР ГАЕЧНЫХ НАКИДНЫХ ИЗОГНУТЫХ КЛЮЧЕЙ • RINGSCHLÜSSELSÄTZE GEKRÖPFT





CrV DIN 838

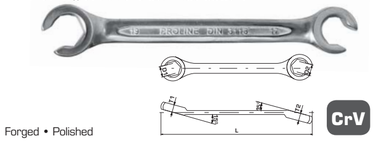
• Cold forged • Ground heads • Chromium-plated
• **6 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17 mm
• **8 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 mm
• **12 pcs.**: 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32 mm

Code	Quantity (pcs)	Range (mm)	BOX	
36506	6	6x7 - 16x17	x	20
36508	8	6x7 - 20x22	x	12
36512	12	6x7 - 30x32	x	4



1 FLARE NUT SPANNERS

• ГАЕЧНЫЕ НАКИДНЫЕ КЛЮЧИ С РАЗРЕЗОМ • RINGSCHLÜSSEL OFFEN



• Forged • Polished

CrV

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36408	8 x 9	140	6.5	5.3	6.1	5.4	x	10/300
36410	10 x 11	152	8.7	7.2	7.7	7.0	x	10/300
36412	12 x 13	160	10.3	9.2	9.7	8.6	x	10/200
36413	13 x 14	170	11.2	10.2	10.3	9.3	x	10/200
36415	15 x 17	195	14.3	12.3	11.3	10.5	x	10/100
36417	17 x 19	209	15.3	14.3	12.8	12.2	x	10/80
36419	19 x 21	229	17.3	15.2	14.2	12.6	x	10/80

2 FLARE NUT SPANNER SET

• НАБОР ГАЕЧНЫХ НАКИДНЫХ КЛЮЧЕЙ С РАЗРЕЗОМ • RINGSCHLÜSSELSÄTZE OFFEN



CrV

• Forged • Polished
• **5 pcs.**: 10x11, 12x13, 13x14, 15x17, 17x19 mm

Code	Quantity (pcs)	Range (mm)	BOX	
36445	5	10x11 - 17x19	x	20

3 'C' TYPE RING SPANNERS

• ГАЕЧНЫЕ НАКИДНЫЕ ДВУСТОРОННИЕ „СТАРТЕРНЫЕ" КЛЮЧИ • RINGSCHLÜSSEL TYP C



• Forged • Polished

CrV

Code	Size (mm)	L (mm)	D1 (mm)	D2 (mm)	T1 (mm)	T2 (mm)		
36428	8 x 9	150	15.5	15.1	6.7	6.1	x	10/300
36430	10 x 11	150	17.7	17.0	6.7	6.3	x	10/300
36432	12 x 13	150	20.5	18.0	7.0	6.0	x	10/200
36434	14 x 15	185	23.5	22.2	8.0	7.6	x	10/160
36436	16 x 17	186	26.2	25.3	8.0	7.8	x	10/100
36437	17 x 19	185	28.2	26.5	9.8	8.3	x	10/100
36439	19 x 21	221	34.8	33.8	12.7	12.2	x	10/80

4 'C' TYPE RING SPANNER SET

• НАБОР ГАЕЧНЫХ НАКИДНЫХ ДВУСТОРОННИХ „СТАРТЕРНЫХ" КЛЮЧЕЙ • RINGSCHLÜSSELSÄTZE TYP C



CrV

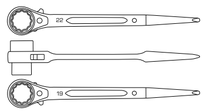
• Forged • Polished
• **5 pcs.**: 10x11, 12x13, 14x15, 16x17, 17x19 mm

Code	Quantity (pcs)	Range (mm)	BOX	
36455	5	10x11 - 17x19	x	20

5 RATCHET SCAFFOLD SPANNER

• КЛЮЧ ДЛЯ СТРОИТЕЛЬНЫХ ЛЕСОВ С ТРЕЩОТКОЙ • RINGSCHLÜSSEL-SATZ TYP C







32 CrV

• Forged • Designed especially for works related to scaffolding assembly and dismounting • Chromium-plated • Satin • A long and profiled handle facilitates scaffolding levering and extending • The opening in the handle facilitating spanner fixing and securing during works at height

Code	Size (mm)		
36722	19x22	x	10/40

1 FLEXIBLE JOINT GLOW PLUG SOCKET SET

• ТОРЦЕВЫЕ КЛЮЧИ ДЛЯ СВЕЧ НАКАЛИВАНИЯ – НАБОР • FLEXIBLES GELENK GLÜHKERZEN-STECK-SCHLÜSSEL-SATZ



3/8" CrV

- Spanners for mounting and dismounting glow plugs • Articulated
- **6 pcs.**: 8, 9, 10, 12, 14, 16

Code	Range (mm)	Square	
46841	8-16	3/8"	10

2 OPEN END RING SPANNER SET

• КЛЮЧИ НАКИДНЫЕ ОТКРЫТЫЕ – НАБОР • MAULSCHLÜSSELSATZ



1/2" CrMo SCM-440

- For driving screws and bolts in and out in places hard to reach
- Easy access when removing cables or sensors
- **6 pcs.**: 12, 14, 16, 17, 18, 19 mm

Code	Range (mm)	
46842	12-19	10

3 T-TYPE SOCKET WRENCHES

• КЛЮЧИ ТОРЦЕВЫЕ Т-ОБРАЗНЫЕ • STECKSCHLÜSSEL TYP T



CrV 300 mm

Code	Size (mm)	
29083	8	25/100
29084	9	25/100
29085	10	25/100
29086	11	25/100
29087	12	25/100
29088	13	25/100
29089	14	25/100
29090	15	20/80
29092	17	20/80

4 CROSS-RIM WRENCHES

• КЛЮЧИ БАЛОННЫЕ КРЕСТОВЫЕ • RADMUTTERNSCHLÜSSEL TYP X



CrV

- Made from high quality CrV steel • Wide working range • For professional applications

Code	Size (mm)	Square	L (mm)		
29020	17 x 19 x 21	1/2"	400	x	5/10
29021	24 x 27 x 32	3/4"	600	-	1/6

5 L-TYPE RIM WRENCH

• КЛЮЧ БАЛОННЫЙ L-ОБРАЗНЫЙ • RADMUTTERNSCHLÜSSEL TYP L



CrV

- Made from high quality CrV steel • Wide working range • For professional applications • The set includes 2 sockets sized 17 x 19 mm and 21 x 23 mm

Code	Size (mm)	Square	L (mm)	
29023	17 x 19 21 x 23	1/2"	350 - 530	6/12

1 CROSS-RIM WRENCH

• КЛЮЧ БАЛОННЫЙ КРЕСТОВОЙ • RADMUTTERNSCHLÜSSEL TYP X



CrV

- Made from high quality CrV steel
- Wide working range • For professional applications

Code	Size (mm)	L (mm)		
29019	17 x 19 x 21 x 22	400	x	5/10

2 T-TYPE RIM WRENCH

• КЛЮЧ БАЛОННЫЙ Т-ОБРАЗНЫЙ • RADMUTTERNSCHLÜSSEL TYP T



CrV

• Made from high quality CrV steel • Wide working range • For professional applications • The set includes 2 sockets sized 17 x 19 mm and 21 x 23 mm • Case

Code	Size (mm)	Square	L (mm)	
29022	17 x 19 21 x 23	1/2"	400	10

3 T-TYPE SPARK PLUG WRENCHES

• КЛЮЧИ БАЛОННЫЕ Т-ОБРАЗНЫЕ • ZÜNDKERZENSCHLÜSSEL TYP T



285 mm CrV

• Brass insert protecting the plug

Code	Hexagon (mm)	
29116	16	20/40
29121	21	20/40



1 TORQUE WRENCHES

• КЛЮЧИ ДИНАМОМЕТРИЧЕСКИЕ • DREHMOMENTSCHLÜSSEL



48 · CrV 6140

• Calibration certificate inside • Delivered in plastic box

Code	Square	Range (Nm)	Length (mm)	
66800	1/4"	5-25	300	6
66801	3/8"	20-100	381	6
66802	1/2"	20-100	381	6
66803	1/2"	40-200	481	6
66804	1/2"	60-340	584	4
66805	3/4"	150-750	1210	1

2 TORQUE WRENCH

• КЛЮЧ ДИНАМОМЕТРИЧЕСКИЙ • DREHMOMENTSCHLÜSSEL



x12 · 48 · CrV 6140

• Calibration certificate inside • Delivered in plastic box
• 13 mm, 14 mm, 15 mm, 17 mm, 19 mm, 22 mm, 24 mm, 27 mm, 30 mm, 32 mm

Code	Square	Range (Nm)	Length (mm)	
66812	1/2"	40-200	472	4

3 DIGITAL TORQUE WRENCH

• ЭЛЕКТРОННЫЙ ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ • DIGITALER DREHMOMENTSCHLÜSSEL



36 · CrV · 3 x AAA 3 x 1.5V LR03 · CE

• Calibration certificate inside• Allows angles to be measured • Additional functions (storing results, setting an angle, tracking torque, backlighting for the result, light and sound signaling)
• Delivered in plastic box

Code	Square	Range (Nm)	Length (mm)	
66813	1/2"	40-200	530	3/6

4 TORQUE SCREWDRIVER

• ОТВЁРТКА ДИНАМОМЕТРИЧЕСКАЯ • DREHMOMENT-SCHRAUBENDREHER

CrV



• Calibration certificate inside

Code	Hex	Range (Nm)	Length (mm)	
66814	1/4"	1-6	195	30

5 TORQUE WRENCHES

• КЛЮЧИ ДИНАМОМЕТРИЧЕСКИЕ • DREHMOMENTSCHLÜSSEL



CrV

• Calibration certificate inside • Delivered in plastic box

Code	Square	Range (Nm)	Length (mm)	
66700	3/8"	20-110	404	12
66701	1/2"	40 - 210	460	12
66702	1/2"	50 - 350	553	12

6 TORQUE MULTIPLIER

• УСИЛИТЕЛЬ КРУТЯЩЕГО МОМЕНТА
• DREHMOMENTVERSTÄRKER



MAX 4800 Nm · 1:64 · 32 mm 33 mm · CrV

• Delivered in plastic box

Code	Square	Length (mm)	
46861	1"	315	3

7 TORQUE MULTIPLIER

• УСИЛИТЕЛЬ КРУТЯЩЕГО МОМЕНТА
• DREHMOMENTVERSTÄRKER



MAX 6800 Nm · 1:64 · 27 mm 30 mm 32 mm 33 mm · CrV

• Delivered in plastic box

Code	Square	Length (mm)	
46862	1"	345	3

8 TORQUE SETTING ANGULAR GAUGE

• УГЛОМЕР ДЛЯ ДИНАМОМЕТРИЧЕСКОГО КЛЮЧА
• DREHMOMENTEINSTELLUNG WINKELMESSGERÄT



1/2" · 360°

Code	Size (mm)	Range		
66510	1/2"	360°	x	12/48

1 DIESEL INJECTOR SOCKET SET

• НАСАДКИ ДЛЯ ФОРСУНОК ДИЗЕЛЬНЫХ ДВИГАТЕЛЕЙ – НАБОР
• DIESEL-EINSPRITZDÜSEN-STECKSCHLÜSSEL-SET



x6 | 1/2” | CrV

- The set includes 12-angle bits:
  - 1/2” x 27 mm x 78 mm
  - 1/2” x 22 mm x 78 mm
  - 1/2” x 28 mm x 78 mm
  - 1/2” x 21mm x 90 mm

The set includes 6-angle bits:
- 1/2” x 22 mm x 110 mm
- 1/2” x 28 mm x 83 mm

Code	Quantity (pcs)	
46843	6	12

2 OXYGEN SENSORS AND FUEL INJECTOR SOCKET SET

• НАБОР НАСАДОК ДЛЯ ЛЯМБДЫ-ЗОНДА И ФОРСУНОК • SAUERSTOFFSENSOR- UND KRAFTSTOFFEIN-SPRITZDÜSEN-STECKSCHLÜSSEL-SET



x7 | 1/2” | 3/8” | CrV | CrMo SCM-440

- The set includes 12-angle bits:
  - 1/2” x 27 mm x 78 mm

The set includes 6-angle bits:
- 1/2” x 29 mm x 90 mm
- 1/2” x 22 mm x 50 mm
- 3/8” x 22 mm x 90 mm
- 3/8” x 22 mm x 80 mm
- 3/8” x 27 mm x 74 mm
- 3/8” x 22 mm x 30 mm

Code	Quantity (pcs)	
46844	7	10

3 DIESEL INJECTOR TOOTHMED SOCKET SET

• КЛЮЧИ ДЛЯ ФОРСУНОК ДИЗЕЛЬНЫХ ДВИГАТЕЛЕЙ – НАБОР • DIESEL-EINSPRITZVENTIL ZAHN-STECK-SCHLÜSSEL-SET



x4 | 1/2” | H32 | CrV

- The set includes:
  - 1/2” x 72 mm x 4 teeth
  - 1/2” x 120 mm x 3 teeth
  - H32 x 70 mm x 4 teeth (M14 x 1.5 mm)
  - H32 x 120 mm x 4 teeth

Code	Quantity (pcs)	
46845	4	20

4 OXYGEN SENSOR SOCKET SET

• ТОРЦЕВЫЕ КЛЮЧИ ДЛЯ ЛЯМБДЫ-ЗОНДА – НАБОР • SAUERSTOFFSENSOR-STECKSCHLÜSSEL-SET



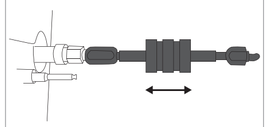
x3 | 1/2” | 3/8” | CrV | CrMo SCM-440

- The set includes 6-angle bits:
  - 3/8” x 22mm x 80 mm
  - 1/2” x 22mm x 50 mm
  - 3/8” x 22mm x 30 mm

Code	Quantity (pcs)	
46846	3	20

1 INJECTOR PULLER WITH SLIDE HAMMER

• СЪЁМНИК ИНЕРЦИОННЫЙ ДЛЯ ФОРСУНОК • EINSPRITZDÜSEN--ZIEHER MIT GLEITHAMMER





M8 | M12 | M14 | CrV

• For installing injectors by BOSCH and LUCAS in Diesel engines • The set includes adapters M8, M12, M14

Code	Length (mm)	
46847	220	20

2 DEEP IMPACT SOCKET SET FOR ALLOY WHEELS

• НАБОР УДАРНЫХ ТОРЦЕВЫХ ГОЛОВОК ДЛЯ АЛЮМИНИЕВЫХ ДИСКОВ • SCHLAG-FELGENSTECKSCHLÜSSELSÄTZE





x3 | 1/2" | CrMo SCM-440 | PRO DRIVE

• 17 - Ø outer 26 mm • 19 - Ø outer 29 mm
• 21 - Ø outer 31 mm • Delivered in plastic box

Code	Square	Range (mm)	Quantity (pcs)	
29080	1/2"	17 - 21	3	20

3 DEEP IMPACT SOCKET FOR ALLOY WHEELS

• УДАРНЫЕ ТОРЦЕВЫЕ ГОЛОВКИ ДЛЯ АЛЮМИНИЕВЫХ ДИСКОВ • SCHLAG-STECKSCHLÜSSEL FÜR LEICHTMETALLRÄDER





1/2" | CrMo SCM-440 | PRO DRIVE

• 17 - Ø ext. 26 mm • 19 - Ø ext. 28 mm
• 21 - Ø ext. 30 mm • 22 - Ø ext. 32 mm

Code	Range (mm)	Square	
29095	17	1/2"	25/50
29096	19	1/2"	25/50
29097	21	1/2"	25/50
29098	22	1/2"	25/50



4 LEVER GREASE GUN

• ШПРИЦ - МАСЛЕНКА РУЧНАЯ • HANDFETTPRESSE MIT MUNDSTÜCKSATZ



300 mm | max 70MPa | 500 cm³

• Aluminium head • Structure enabling to load grease in two ways • Work pressure 31 MPa • Two dispensers: flexible (300 mm) and rigid (160 mm) • 4-jaw grease gun tips

Code	Capacity (cm³)	
42506	500	10

5 HAND GREASE GUN

• МАСЛЕНКА РУЧНАЯ • HANDFETTPRESSE



220 mm | 100 cm³

• Useful for gardening, recreational equipment, cars, motorcycles etc.

Code	Capacity (cm³)	
42500	100	12/36

6 OIL SUCTION GUN

• ШПРИЦ - МАСЛЕНКА РУЧНАЯ • ÖLABSAUGER



300 mm | 500 cm³

• Flexible dispenser Ø10 mm (260 mm)

Code	Capacity (cm³)	
42507	500	20

1 MAGNETIC BOWL
• ЛОТОК МАГНИТНЫЙ • MAGNETSCHÜSSEL



• Rubber bowl base protects the surface from scratching • Can be used for storing metal objects, e.g. bolts, nails, rivets, staples

Code	Diameter (mm)		
46939	108		50

2 MAGNETIC BOWL
• ЛОТОК МАГНИТНЫЙ • MAGNETSCHÜSSEL



• Rubber bowl base protects the surface from scratching • Can be used for storing metal objects, e.g. bolts, nails, rivets, staples

Code	Diameter (mm)		
46949	150	x	12/36

3 MAGNETIC BOWL
• ЛОТОК МАГНИТНЫЙ • MAGNETSCHÜSSEL



• Rubber bowl base protects the surface from scratching • Can be used for storing metal objects, e.g. bolts, nails, rivets, staples

Code	Size (mm)		
46959	240 x 140	x	6/24

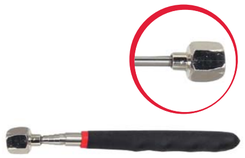
4 TELESCOPIC MAGNETIC PICK UP TOOL
• МАГНИТНЫЙ ТЕЛЕСКОПИЧЕСКИЙ ДЕРЖАТЕЛЬ
• MAGNETISCHES TELESKOP-AUFNAHMEWERKZEUG



max 22kg

Code	Length (mm)		
46971	590 - 990	x	12/24

5 TELESCOPIC MAGNETIC PICK UP TOOL
• МАГНИТНЫЙ ТЕЛЕСКОПИЧЕСКИЙ ДЕРЖАТЕЛЬ
• MAGNETISCHES TELESKOP-AUFNAHMEWERKZEUG



max 6.8kg

Code	Length (mm)		
46972	180 - 770	x	20/120

6 LED TELESCOPIC MAGNETIC PICK UP TOOL
• МАГНИТНЫЙ ТЕЛЕСКОПИЧЕСКИЙ ДЕРЖАТЕЛЬ СО СВЕТОДИОДНОЙ ПОДСВЕТКОЙ • MAGNETISCHES LED-TELESKOP--AUFNAHMEWERKZEUG



max 3.6kg LED CE

• Powered by three LR44 batteries

Code	Length (mm)		
46973	190 - 800	x	25/100

7 TELESCOPIC INSPECTION MIRROR
• ТЕЛЕСКОПИЧЕСКОЕ ИНСПЕКЦИОННОЕ ЗЕРКАЛО
• TELESKOP-INSPEKTIONSSPIEGEL



Ø 50mm

Code	Length (mm)		
46974	245 - 710	x	25/100

8 LED TELESCOPIC INSPECTION MIRROR
• ТЕЛЕСКОПИЧЕСКОЕ ИНСПЕКЦИОННОЕ ЗЕРКАЛО СО СВЕТОДИОДНОЙ ПОДСВЕТКОЙ • LED-TELESKOP-INSPEKTIONS-SPIEGEL



50x80 mm LED CE

• Powered by two LR44 batteries

Code	Length (mm)		
46975	285 - 875	x	10/100

9 TELESCOPIC PICK UP TOOL AND MIRROR SET
• ИНСПЕКЦИОННЫЙ НАБОР: МАГНИТНЫЙ НАКОНЕЧНИК И ЗЕРКАЛО • TELESKOP-AUFNAHMEWERKZEUG UND SPIEGEL-SET



• Telescopic structure offers the adjustable length of devices: pick-up tool 160 - 645 mm; mirror 250 - 925 mm, diameter 57 mm • Foldable plastic case

Code	Quantity (pcs)		
46979	4	x	10/40

1 MAGNETIC TOOL HOLDER

• МАГНИТНАЯ ПЛАНКА ДЛЯ ИНСТРУМЕНТА • MAGNETLEISTE FÜR WERKZEUG



Code	Length (mm)		
46969	500	x	12/24

2 STRAIGHT TWEEZER

• ПИНЦЕТ • GERADE PINZETTE



STAINLESS

HRC 42±2

• Anti-static and acid-resistant coating

Code	Length (mm)		
46981	140	x	40/800

3 BENT TWEEZER

• ПИНЦЕТ • GEBOGENE PINZETTE



STAINLESS

HRC 42±2

• Anti-static and acid-resistant coating

Code	Length (mm)		
46982	115	x	40/800

4 SEAL PULLER

• СЪЕМНИК УПЛОТНИТЕЛЬНЫХ КОЛЕЦ И СОЕДИНЕНИЙ • DICHTUNGSABZIEHER





• For dismounting inner rubber and metal seals Ø 65 mm

Code	Diameter (mm)		
46850	65	x	12/48

5 OIL FILTER WRENCHES

• КЛЮЧ ДЛЯ МАСЛЯНОГО ФИЛЬТРА • SCHLÜSSEL FÜR ÖLFILTER





• For oil filter replacement • Moveable handle

Code	Diameter (mm)		
46882	60 - 73	x	12/48
46883	73 - 85	x	12/48
46884	85 - 95	x	12/48
46885	95 - 111	x	12/48

6 CUP TYPE OIL FILTER WRENCH SET

• ТОРЦЕВЫЕ КЛЮЧИ ДЛЯ МАСЛЯНОГО ФИЛЬТРА – НАБОР • TASSENÖLFILTER-SCHLÜSSELSET



x30 1/2" 3/8"

• Set of spigot spanners made from Cr-Mb steel • Designed for replacement of metal oil filters in passenger and delivery vehicles • The set includes a three-branch spanner and an adapter 3/8"-1/2"

Code	Square	Quantity (pcs)	
46887	3/8"	30	3

1 THREE JAW OIL FILTER WRENCH

• КЛЮЧ ДЛЯ МАСЛЯНОГО ФИЛЬТРА • DREIBACKEN-ÖLFILTERSCHLÜSSEL

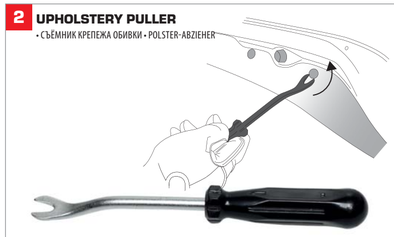


• A three-branch spanner for replacing oil filters

Code	Range (mm)	
46886	65 - 114	5/20

2 UPHOLSTERY PULLER

• СЪЁМНИК КРЕПЕЖА ОБИВКИ • POLSTER-ABZIEHER

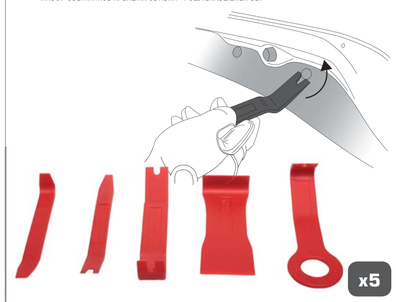


• A tool facilitating dismounting internal components of vehicles
• Designed for dismounting strips, clips and upholstery in vehicles

Code	Length (mm)	
46893	205	10/40

3 UPHOLSTERY PULLERS SET

• НАБОР СЪЁМНИКОВ КРЕПЕЖА ОБИВКИ • POLSTERABZIEHER-SET



• Tools facilitating installation of vehicle interior components • Designed for dismounting profiles, clips and upholstery in vehicles • Made from a hardened nylon, making them highly durable and flexible

Code	Quantity (pcs)	
46894	5	6/24

4 BEARING SEPARATOR 30-50MM

• СЪЕМНИК ПОДШИПНИКОВ СТЯЖНОЙ (СЕГМЕНТНЫЙ) 30-50 MM • LAGERABSCHEIDER 30-50 MM

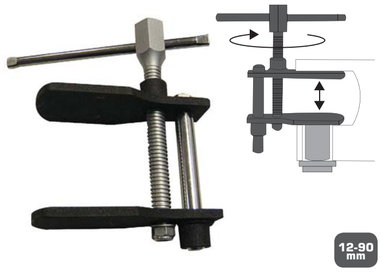


• For removing bearings, gears and other tight-fitting components

Code	Range (mm)	
46851	30 - 50	20

5 DISC BREAK SPREADER

• РАСПОРКА ТОРМОЗНЫХ ДИСКОВ • SCHEIBENBREMSVERTEILER



Code	Range (mm)	BOX	
46874	12 - 90	x	20

6 SPEEDY BRAKE COMPRESSOR

• УСТРОЙСТВО ДЛЯ ВЫДАВЛИВАНИЯ ДЛЯ ТОРМОЗНЫХ ПОРШНЕЙ • SCHNELLER BREMSKOMPRESSOR



• Designed for quick pushing of brake pistons

Code	Range (mm)	
46879	15-90	16

1 SPRING PULLER

• СЪЁМНИКИ ПРУЖИН • FEDER-ZIEHER



Code	Length (mm)	
46892	300	10

2 INTERNAL GEAR PULLER

• СЪЁМНИК ПОДШИПНИКОВ, ВНУТРЕННИЙ • INNENZAHNRADABZIEHER



Code	Range (mm)	
46866	14 - 38	20

3 EXTERNAL GEAR PULLER

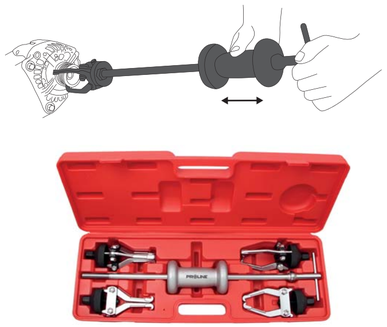
• СЪЁМНИК ПОДШИПНИКОВ, ВНЕШНИЙ • ÄUSSERER ZAHNRADABZIEHER



Code	Range (mm)	
46867	24-55	6/24

4 INTERNAL AND EXTERNAL BEARING PULLER SET

• СЪЁМНИК ПОДШИПНИКОВ ИНЕРЦИОННЫЙ • INNEN- UND AUSSENLAGERABZIEHER-SET



- A specialist tool for dismounting bearings • The set includes an impact puller and four replaceable tips (2 inner removers, 2 outer removers) - inner, two-branched

Code	Quantity (pcs)	
46868	5	2

5 WHEEL HUB SLIDE HAMMER PULLER SET

• СЪЁМНИК ИНЕРЦИОННЫЙ ДЛЯ СТУПИЦ • RADNABEN-GLEITHAMMER-ABZIEHER-SET



- A specialist tool for dismounting hubs
- The set includes an impact puller and two changeable heads

Code	Quantity (pcs)	
46869	26	2

1 BALL JOINT SEPARATOR
• ДВУХПОЗИЦИОННЫЙ СЪЕМНИК ШАРОВЫХ ОПОР • KUGELGELENKTRENNER



• For disassembly of ball pins

Code	Diameter (mm)	
46876	17	20

2 BALL JOINT SEPARATOR
• СЪЕМНИК ШАРОВЫХ ОПОР • KUGELGELENKTRENNER



• For removing ball pins

Code	Diameter (mm)	BOX	
46871	19	x	20

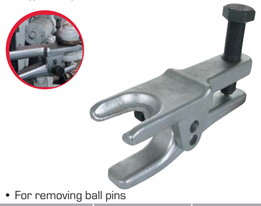
3 BALL JOINT SEPARATOR
• ДВУХПОЗИЦИОННЫЙ СЪЕМНИК ШАРОВЫХ ОПОР • KUGELGELENKTRENNER



• For removal of ball pins

Code	Diameter (mm)	
46877	19	20

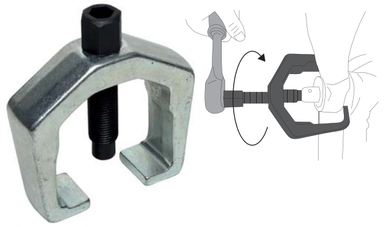
4 TWO STAGE BALL JOINT SEPARATOR
• ДВУХПОЗИЦИОННЫЙ СЪЕМНИК ШАРОВЫХ ОПОР • ZWEISTUFIGER KUGELGELENKTRENNER



• For removing ball pins

Code	Diameter (mm)	BOX	
46870	22	x	20

5 BALL JOINT SEPARATOR
• СЪЁМНИК ШАРНИРОВ • KUGELGELENKTRENNER



• For removal of joints

Code	Diameter (mm)	
46878	33	20

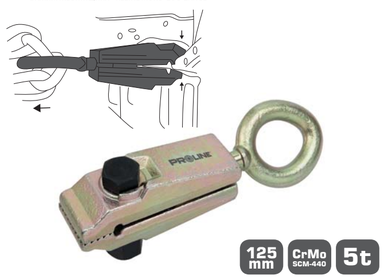
6 PISTON RING COMPRESSOR
• ЗАЖИМЫ ДЛЯ ПОРШНЕВЫХ КОЛЕЦ • KOLBENRINGSPANNER



• For removing pistons in the engine body

Code	Diameter (mm)	Height (mm)	BOX	
46863	53 - 125	75	x	30/60
46864	90 - 175	100	x	30/60
46865	90 - 175	150	x	20/40

7 SMALL MOUTH PULL CLAMP
• ЗАЖИМ ЖЕСТЯНЩИКА • KLEINE MUND-ZUG-ZANGE



• Forged • Self-clamping • Clamping force 5 tonnes • Notched jaws ensuring stronger gripping force • Designation: specialist tinsmithing service

Code	Pressure value (t)	
46895	5	6

1 EXHAUST CHAIN CUTTER

• ПРИСПОСОБЛЕНИЕ ДЛЯ РЕЗКИ ВЫХЛОПНЫХ ТРУБ 20–75 ММ • AUSPUFFKETTENSCHNEIDER



• For cutting exhaust pipes in places difficult to reach

Code	Range (mm)	
46849	20-75	6/36

2 4 PC STUD EXTRACTOR SET

• НАБОР 4 ШТ. ШПИЛЬКОВЕРТОВ • 4 STK. BOLZEN AUSZIEHER SET





x4 | 1/2" | CrV

• For unscrewing pins or broken bolts

Code	Size	BOX	
46888	M6, M8, M10, M12	x	20

3 RADIO REMOVAL KIT

• НАБОР ДЛЯ ДЕМОНТАЖА РАДИОПРИЁМНИКОВ • RADIO-AUSBAU-SET



x52

• For removal of car radio receivers both OEM and universal (such as SONY, BLAUPUNKT, PANASONIC, KENWOOD) • Set in a case with the purpose of every element embossed on it

Code	Quantity (pcs)	
46854	52	5

4 SPECIAL TWIN ARM PULLER AND SEPARATOR

• УНИВЕРСАЛЬНЫЙ СЪЕМНИК С СЕПАРАТОРОМ • SPEZIELLER DOPPELARMABZIEHER UND ABSCHEIDER





x12

• For removing bearings, gears

Code	Separator (mm)	Puller (mm)	
46858	10 - 30	10 - 60	30

5 3 PC. TWIN ARM PULLER SET

• НАБОР 3 ШТ. УНИВЕРСАЛЬНЫХ ДВУХЗАХВАТНЫХ СЪЕМНИКОВ • 3-TEILIGES DOPPELARMABZIEHER-SET





98 212 281 MM | ⌀ 35-135 mm | CrV

• For removing bearings, gears

Code	Diameter (mm)	Length (mm)	
46859	35 - 135	120 - 280	4

6 5 PC. BALL JOINT SEPARATOR SET

• НАБОР ДЛЯ СНЯТИЯ ШАРОВЫХ ШАРНИРОВ, РУЛЕВЫХ ТЯГ И РУЛЕВЫХ СОШЕК 5 ШТ. • 5-TEILIGES KUGELGELENK-ABSCHEIDER-SET





x5 | 8mm | 24mm / 123mm | CrV

• For removing steering rods • Replaceable handles for slogging with a hammer or air wrenches

Code	Separator (mm)	
46860	11/16", 15/16", 1 1/8"	10

1 BRAKE PISTON WIND BACK TOOL SET

• НАБОР ДЛЯ РАЗВОДА ПОРШНЕЙ ТОРМОЗНЫХ ЦИЛИНДРОВ • BREMSKOLBEN RÜCKDREH-WERKZEUGSET



x12

- Universal set for various vehicle types

Code	Quantity (pcs)	
46880	12	10

2 BRAKE PISTON WIND BACK TOOL SET

• НАБОР ДЛЯ РАЗВОДА ПОРШНЕЙ ТОРМОЗНЫХ ЦИЛИНДРОВ • BREMSKOLBEN RÜCKDREH-WERKZEUGSET





x18

- Universal set for various types of cars

Code	Quantity (pcs)	
46881	18	10

3 OIL DRAIN PLUG SET

• НАБОР КЛЮЧЕЙ ДЛЯ СЛИВНОЙ ПРОБКИ МАСЛЯНОГО ФИЛЬТРА • ÖLABLASSSCHRAUBEN-SET



x18 3/8" CrV

- 3/8" • 3/8" ⌀ 8, 9, 10, 12, 14, 17 mm • 3/8" ⌀ 7, 8, 10, 11, 12, 13, 14 mm, 5/16", 3/8" • 3/8" ⌀ 10 mm
- 3/8" ⌀ 10 mm

Code	Quantity (pcs)	
46875	18	15

4 AUTO WINDSCREEN REMOVAL TOOL SET

• НАБОР ДЛЯ ДЕМОНТАЖА АВТОСТЁКОЛ • AUTO WINDSCHUTZSCHEIBEN-ENTFERNUNGSWERKZEUG-SET



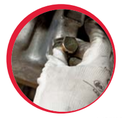
x7

- For cutting damaged glued vehicle panes • The set includes: pane cutting rope, rope handles, tool for rope pulling, clip remover, pane knife, seal knife

Code	Quantity (pcs)	
46853	7	5/10

5 OIL SUMP PLUG REPAIR SET

• РЕМОНТНЫЙ НАБОР ПРОБОК ДЛЯ МАСЛЯНОГО КАРТЕРА • ÖLSUMPFSCHRAUBE REPARATURSATZ





M13 x 1 M13 x 5 13 mm x 10
M15 x 1 M15 x 5 15 mm x 10
M17 x 1 M17 x 5 17 mm x 10
M20 x 1 M20 x 5 20 mm x 10

M13 M15 M17 M20 x64

- For repairing leaky oil drains • Includes 4 sizes: M13, M15, M17, and M20 • For each size, there is 1 screw tap, 5 plugs, and 10 washers in the set

Code	Quantity (pcs)	
46889	64	5

PROLINE

1 ALTERNATOR PULLEY TOOL SET

• КЛЮЧИ ДЛЯ ГЕНЕРАТОРОВ ПЕРЕМЕННОГО ТОКА – НАБОР • GENERATOR-RIEMENRAD-WERKZEUGSATZ



x13 | CrV | HRC 55±2

- Spanners for dismounting alternators by Magnetti Marelli and Bosch in such vehicles as VAG, PSA, BMW, FIAT, FORD, MERCEDES, VOLVO and many others.
- 1/2" SPLINE M10
- 1/2" TORX T50
- HEX H10 TORX T40, T50
- HEX H10 SPLINE M8, M10
- HEX H10 HEX H8, H10
- HEX H15 33T
- HEX H22 33T
- HEX H22 HEX H22
- HEX H17 Ø 35
- 1/2" HEX H10

Code	Quantity (pcs)	
46848	13	10

2 DIESEL FLOW & ADAPTOR SET

• КОМПЛЕКТ ДЛЯ ДИАГНОСТИКИ ФОРСУНОК ВПРЫСКА ТОПЛИВА • DIESEL FLUSS- UND ADAPTER-SATZ



x31

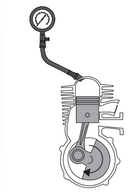
- For Diesel engine injection diagnosis (COMMON RAIL) using the overflow method • Diagnose up to 6 injectors simultaneously • For the following brands of injectors: BOSCH, SIEMENS, DENSO, and DELPHI

Code	Quantity (pcs)	
46852	31	6

3 DIESEL ENGINE COMPRESSION TEST SET

• ИЗМЕРИТЕЛЬ ДАВЛЕНИЯ СЖАТИЯ ДЛЯ ДИЗЕЛЬНЫХ ДВИГАТЕЛЕЙ • DRUCKPRÜFGERÄT FÜR DIESELMOTOREN





x16 | 0-70 bar | 0-1000 psi

- For measuring Diesel engine compression • Includes adapters for glow plug or injector slots

Code	Pressure (bar)	
46897	0-70	5

4 OIL PRESSURE TEST SET

• ИЗМЕРИТЕЛЬ ДАВЛЕНИЯ МАСЛА • ÖLDRUCKPRÜFGERÄT



x12 | 0-35 bar | 0-500 psi

- For most types of engines both in cars and light commercial vehicles
- Clear, double scale (0–35 bar / 0–500 psi) • 1650 mm hose

Code	Pressure (bar)	
46898	0-35	10

5 FUEL PRESSURE TEST SET

• ИЗМЕРИТЕЛЬ ДАВЛЕНИЯ ТОПЛИВА • KRAFTSTOFFDRUCK-PRÜFGERÄT





x9 | 0-70 cmHg | 0-0,7 bar | 0-10 psig

- For measuring positive and negative pressure in car and motorcycle engines • For diagnosing problems with fuel pumps, valves, and ignition
- Manometer 0-10 psig (0-0.7 bar) • Vacuum gauge 0-70 cmHg
- Includes a 14/18 mm adapter and a 600 mm hose

Code	Pressure (bar)	
46899	0-0,7	10

1 HYDRAULIC BOTTLE JACKS

• ГИДРАВЛИЧЕСКИЙ БУТЫЛОЧНЫЙ ДОМКРАТ • HYDRAULISCHE SÄULEN-HEBEBÜHNE



Code	Load-carrying capacity (t)	Range (mm)	Weight netto (kg)	
46802	2	181 - 345	2.5	6
46803	3	194 - 374	3.2	6
46805	5	216 - 413	4.3	4
46808	8	230 - 457	5.5	4
46810	10	230 - 460	6.2	4
46812	12	230 - 465	7.2	3
46815	15	230 - 462	8.1	2
46820	20	242 - 452	10.5	2

2 HYDRAULIC FLOOR JACK

• ГИДРАВЛИЧЕСКИЙ ПОДКАТНОЙ ДОМКРАТ • HYDRAULISCHE HEBEBÜHNE



2t · 9,8 kg · max 350 mm / min 130 mm · 495 mm x 220 mm x 135 mm

Code	Size (mm)	Load-carrying capacity (t)	
46922	495 x 220 x 135	2	1

3 LOW PROFILE HYDRAULIC FLOOR JACK

• ГИДРАВЛИЧЕСКИЙ НИЗКОПРОФИЛЬНЫЙ ПОДКАТНОЙ ДОМКРАТ • HYDRAULISCHE HEBEBÜHNE MIT NIEDRIGEM PROFIL



2t · 14,1 kg · max 359 mm / min 99 mm · 556 mm x 234 mm x 153 mm · min 89 mm · 240 mm

• Its low profile makes it possible to lift also low-slung vehicles, sports cars etc.

Code	Size (mm)	Load-carrying capacity (t)	
46921	556 x 234 x 153	2	1

4 QUICK-LIFT HYDRAULIC FLOOR JACK

• ГИДРАВЛИЧЕСКИЙ ПОДКАТНОЙ ДОМКРАТ С ФУНКЦИЕЙ БЫСТРОГО ПОДЪЁМА • HYDRAULISCHE HEBEBÜHNE MIT SCHNELL-HEBE-FUNKTION



2.5t · 19,6 kg · max 435 mm / min 150 mm · max 530 mm / min 245 mm · 632 mm x 242 mm x 150 mm

• Lifting range: without extension: 157 - 427 mm, with extension: 250 - 520 mm
• Fast-lifting function

Code	Size (mm)	Load-carrying capacity (t)	
46923	632 x 242 x 150	2.5	1

5 LOW PROFILE HYDRAULIC FLOOR JACK

• ГИДРАВЛИЧЕСКИЙ НИЗКОПРОФИЛЬНЫЙ ПОДКАТНОЙ ДОМКРАТ • HYDRAULISCHE HEBEBÜHNE MIT NIEDRIGEM PROFIL



2.5t · 34,8 kg · max 457 mm / min 89 mm · 640 mm x 346 mm x 180 mm · min 89 mm

• Its low profile makes it possible to lift also low-slung vehicles, sports cars etc.

Code	Size (mm)	Load-carrying capacity (t)	
46926	640 x 346 x 180	2.5	1

1 QUICK-LIFT HYDRAULIC FLOOR JACK

• ГИДРАВЛИЧЕСКИЙ ПОДКАТНОЙ ДОМКРАТ С ФУНКЦИЕЙ БЫСТРОГО ПОДЪЁМА • HYDRAULISCHE HEBEBÜHNE MIT SCHNELL-HEBE-FUNKTION



3t | 37,2 kg | max 500 mm / min 145 mm | 685 mm x 346 mm x 180 mm

• Fast-lifting function

Code	Size (mm)	Load-carrying capacity (t)	
46927	685 x 346 x 180	3	1

2 HYDRAULIC FLOOR JACK

• ГИДРАВЛИЧЕСКИЙ ПОДКАТНОЙ ДОМКРАТ • HYDRAULISCHE HEBEBÜHNE



3t | 36,5 kg | max 520 mm / min 140 mm | 675 mm x 346 mm x 185 mm

Code	Size (mm)	Load-carrying capacity (t)	
46925	675 x 346 x 185	3	1

3 MOTORCYCLE HYDRAULIC JACK

• ДОМКРАТ ПОДКАТНОЙ ДЛЯ МОТОЦИКЛОВ, КВАДРОЦИКЛОВ И МАЛОТОННАЖНОЙ ТЕХНИКИ • MOTORRADHEBEBÜHNE



400kg | 34,2 kg | max 420 mm / min 140 mm | 864 mm x 396 mm x 140 mm

Code	Size (mm)	Loadcarrying capacity (kg)	
46950	864 x 396 x 140	400	1

4 SCISSOR JACKS

• ВИНТОВЫЕ РОМБИЧЕСКИЕ ДОМКРАТЫ • SCHERENHEBER



Code	Load-carrying capacity (t)	Range (mm)	Weight netto (kg)	
46911	1	88 - 370	2.3	5
46915	1.5	95 - 390	3.2	5



5 PAIRS OF JACK STANDS

• ПОДСТАВКИ ПОД АВТОМОБИЛЬ (ПАРЫ) • UNTERSTELLBÖCKE FÜR AUTOS (PAAREN)



• 10-step height adjustment

Code	Load-carrying capacity (t)	Range (mm)	Weight netto (kg)	
46912	2	265 - 418	5.5 (2szt.)	1
46913	3	280 - 420	7.8 (2szt)	1
46914	6	382 - 600	13.1 (2szt.)	1

6 HYDRAULIC BODY REPAIR SET

• ГИДРАВЛИЧЕСКАЯ РАСПОРНАЯ СТОЙКА – НАБОР В ПЛАСТИКОВОМ КЕЙСЕ • HYDRAULISCHE STRECKER



Code	Expansion force (t)	Range (mm)	Net weight (kg)	
46928	4	270 - 390	16.5	1
46929	10	380 - 530	30.5	1

1 MECHANIC'S CREEPER
• РЕМОНТНЫЙ ПОДКАТНОЙ ЛЕЖАК • WERKSTATTROLLLIEGE



kg 6,0 | 930mm x 440mm x 105mm | 360° ×6

• Steel structure • Upholstered

Code	Size (mm)	Net weight (kg)	
46938	930 x 440 x 105	6	1

2 MECHANIC'S CREEPER
• РЕМОНТНЫЙ ПОДКАТНОЙ ЛЕЖАК • WERKSTATTROLLLIEGE



max 90kg | kg 5,8 | 1010mm x 475mm x 130mm | 360° ×6

• Upholstered head rest

Code	Size (mm)	Net weight (kg)	
46936	1010 x 475 x 130	5.8	1

3 MECHANIC'S CREEPER WITH MAGNETIC PLATES
• РЕМОНТНЫЙ ПОДКАТНОЙ ЛЕЖАК С ДВУМЯ ВСТРОЕННЫМИ МАГНИТНЫМИ ЛОТКАМИ • WERKSTATTROLLLIEGE MIT MAGNETTABLETTEN



max 90kg | kg 5,5 | 1010mm x 475mm x 130mm | 360° ×6 | magnet

• Upholstered head rest • 2 magnetic trays

Code	Size (mm)	Weight netto (kg)	
46937	1010 x 475 x 130	5.5	1

4 PNEUMATIC WORKSHOP SEAT
• РЕМОНТНОЕ КРУГЛОЕ СИДЕНЬЕ НА КОЛЕСАХ С МИКРОЛИФТОМ
• PNEUMATISCHER WERKSTATTHOCKER



max 90kg | 380mm x 380mm x 575mm | 360° ×4

• Upholstered • Pneumatic height control

Code	Size (mm)	Net weight (kg)	
46940	380 x 380 x 575	5.7	1

5 WORKSHOP SEAT
• РЕМОНТНОЕ ПРЯМОУГОЛЬНОЕ СИДЕНЬЕ С ПОЛКОЙ
• WERKSTATTHOCKER



max 90kg | 360mm x 400mm x 340mm | 360° ×4

• Upholstered • Retractable drawer

Code	Size (mm)	Net weight (kg)	
46941	360 x 400 x 340	5	1

6 BOOSTER CABLES
• КАБЕЛИ ДЛЯ ЗАПУСКА • BOOSTER-KABEL



Code	Wire cross-section (mm²)	Length (m)	Nominal start-up current (A)	SAE	
24750	8	2.5	200	x	10
24751	16	3.0	220	x	10
24752	25	3.5	350	x	6
24753	35	4.5	480	x	4

7 CABLE PULLERS
• МОНТАЖНЫЙ РЫЧАЖНО-ТЯГОВЫЙ МЕХАНИЗМ (ЛЕБЕДКА РУЧНАЯ) • SEILWINDEN



Code	Load-carrying capacity (daN)	Rope length (m)	Rope diameter (mm)	Weight (kg)	
46710	1000	3	5	2.5	6
46713	1300	3	5	3.9	6
46715	1500	3	6	7.6	6



PROLINE

1 INVERTER CHARGER

• ИНВЕРТОРНОЕ ЗАРЯДНОЕ УСТРОЙСТВО • WECHSELRICHTER-LADEGERÄT





- Smart inverter-rectifier designed for charging all types of 12 V batteries with capacities from 2 to 60 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Charging current (A)
- Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46830	2A/1A	12V	x	16

3 INVERTER CHARGER

• ИНВЕРТОРНОЕ ЗАРЯДНОЕ УСТРОЙСТВО • WECHSELRICHTER-LADEGERÄT





- Smart inverter-rectifier designed for charging all types of 12/24 V batteries with capacities from 2 to 230 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Charging current (A)
- Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46832	7A/3.5A	12/24V	x	8

2 INVERTER CHARGER

• ИНВЕРТОРНОЕ ЗАРЯДНОЕ УСТРОЙСТВО • WECHSELRICHTER-LADEGERÄT





- Smart inverter-rectifier designed for charging all types of 12 V batteries with capacities from 2 to 120 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Charging current (A)
- Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46831	3,5A/1A	12V	x	10

4 INVERTER CHARGER WITH EMERGENCY START FUNCTION

• ИНВЕРТОРНОЕ ЗАРЯДНОЕ УСТРОЙСТВО С ФУНКЦИЕЙ АВАРИЙНОГО ЗАПУСКА • WECHSELRICHTERLADE-GERÄT MIT NOTSTARTFUNKTION





- Smart inverter-rectifier with a Boost function, designed for charging all types of 12 V batteries with capacities from 2 to 60 AH, lead-acid, gel, MF (maintenance-free), CA (calcium), EFB and AGM • Additional 12 V DC power socket • Charging current (A) • Charging voltage (V)

Code	Charging current (A)	Charging voltage (V)	BOX	
46833	2A/6A/10A/15A	12V	x	8

1 LED FLOODLIGHT

• СВЕТОДИОДНЫЙ ПРОЖЕКТОР • LED-FLUTLICHT



220-240V 50/60Hz · Ra ≥80 · ENERGY CLASS A+ · 110° · IP65 · -20°C +45°C · [h] 20000

- LED Floodlight 10W/ 30W/ 50W • Power supply: 220-240 V/AC
- IP65 • Modern look housing made of aluminium and PVC • Very effective heat dissipation in line with high efficiency • Compact size

Code	Power (W)	Light sources	Luminous flux (lm)	
66181	10	15 (SMD)	800	50
66183	30	45 (SMD)	2400	10
66185	50	75 (SMD)	4000	10

2 LED FLOODLIGHT

• СВЕТОДИОДНЫЙ ПРОЖЕКТОР • LED-FLUTLICHT



220-240V 50/60Hz · Ra ≥80 · ENERGY CLASS A+ · 110° · IP44 · -20°C +45°C · [h] 20000

- LED Floodlight 10W/ 30W • IP44 • Power supply: 220-240 V/AC
- Modern look housing made of aluminium and PVC • Very effective heat dissipation in line with high efficiency • Compact size • Motion sensor (6m) • Adjustable working time after motion detection (3 to 300 sec.)

Code	Power (W)	Light sources	Luminous flux (lm)	
66182	10	15 (SMD)	800	40
66184	30	45 (SMD)	2400	10

3 PORTABLE LED LAMP

• ПЕРЕНОСНАЯ СВЕТОДИОДНАЯ ЛАМПА • TRAGBARE LED-LAMPE



45 SMD LED · 30 W · IP65 · ON/OFF 2000 · 194.4 x 141.4 x 32.5 mm · [h] 30000 · 115° · Ra >70 · Lm 2550 · 4000K · Ta>25°C · WARM-UP ≤1s

- Compact LED lamp with a stand and carrying handle • Power supply: 220-240 V • Power frequency: 50-60 Hz • Light source: SMD LEDs (45 pcs) • Light sources • Luminous flux

Code	Power (W)	Light sources	Luminous flux (lm)	
66188	30	45 (SMD)	2550	15

4 LED RECHARGEABLE LAMP

• СВЕТОДИОДНЫЙ ПРОЖЕКТОР • WIEDERAUFLADBARE LED-LAMPE



Ra ≥70 · ENERGY CLASS A+ · IP54 · 4000K · +1°C +45°C · 8.4V d.c.

- LED rechargable lamp 10W/ 20W • IP44 • Modern design housing
- Very compact - 360 degrees regualtion • Two sets of light intensity (50% i 100%) • Carger included

Code	Power (W)	Light sources	Luminous flux (lm)	Battery (mAh)	
66186	10	20 (SMD)	600	2600	5
66187	20	36 (SMD)	1200	5200	5

1 DOUBLE HALOGEN LAMP STAND

• ЛАМПА ПЕРЕНОСНАЯ ГАЛОГЕННАЯ НА ШТАТИВЕ • EINSTELLBARE LAMPE AUF STATIV 2X500W PROLINE 2IN1



3 m | R7S J118 mm | IP44 | 230 V 50 Hz | MAX. 2x500 W

- Double lamp with adjustable stand 2x500W
- Power supply: 220 ~ 240V/AC IP44 • Power frequency: 50-60Hz • High-pressure cast aluminium body • Powder-coated body and stand • High-quality aluminium reflector
- Tempered glass • Black / red • Halogen light source 2 x • Max 500W 118 mm R7x • Stand adjustable in the range of: 85-182cm • Carrying handle • Can be mounted on the stand and directly on the ground • Adjustable light angle
- 3m electrical cord with a plug

Code	Power (W)	
66158	2 x 500	2

2 HIGH POWER LED TORCH

• ФОНАРЬ HIGH POWER LED • HOCHLEISTUNGS-LED-TASCHENLAMPE



3 x AAA 3 x 1.5 V d.c. | HIGH POWER | LED 3 W | AL | 100% 50% FLASH | 97 g

- Designed for use in various weather conditions

Code	Length (mm)	Operating mode		
51019	120	100%, 50%, flash	x	20/60

3 LED USB RECHARGEABLE FLASHLIGHT

• АККУМУЛЯТОРНЫЙ СВЕТОДИОДНЫЙ ФОНАРИК USB
• WIEDERAUFLADBARE USB-LED-TASCHENLAMPE



300 LUMEN | CREE XPG LED | 3.7V d.c. | Li-Ion 2200 mAh | 1x 18650 | USB RECHARGEABLE LADOWANIE | 100% 50% FLASH | ZOOM | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Efficient CREE XPG high-power (300 lm) LED • ZOOM function
- Built-in USB port for charging
- LED indicating the battery's status during charging (red - charging, green - full battery)
- Replaceable battery, 18650 type (with a capacity of 2200 mAh) • Three operating modes (100%, 50%, FLASH) • Rubber seals for protection against water
- Included: USB cable, battery

Code	Operating mode	
51034	100%, 50%, FLASH	6/48

4 LED USB RECHARGEABLE FLASHLIGHT

• АККУМУЛЯТОРНЫЙ СВЕТОДИОДНЫЙ ФОНАРИК USB
• WIEDERAUFLADBARE USB-LED-TASCHENLAMPE



800 LUMEN | CREE U2 LED | 3.7V d.c. | Li-Ion 6000 mAh | 2x 26650 | USB RECHARGEABLE LADOWANIE | 100% 50% FLASH | ZOOM | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Efficient CREE U2 high-power (800 lm) LED • ZOOM function
- Built-in USB port for charging
- LED indicating the battery's status during charging (red - charging, green - full battery)
- Two replaceable batteries, 26650 type (each with a capacity of 3000 mAh) • Three operating modes (100%, 50%, FLASH) • Rubber seals for protection against water • Included: USB cable, batteries

Code	Operating mode	
51035	100%, 50%, FLASH	6/36

5 LED USB RECHARGEABLE FLASHLIGHT

• АККУМУЛЯТОРНЫЙ СВЕТОДИОДНЫЙ ФОНАРИК USB
• WIEDERAUFLADBARE USB-LED-TASCHENLAMPE



1500 LUMEN | 3XCREE T6 LED | 3.7V d.c. | Li-Ion 6000 mAh | 2x 26650 | USB RECHARGEABLE LADOWANIE | 100% 50% 25% FLASH | SOS SIGNAL | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Three efficient CREE T6 high-power (1500 lm) LEDs • Built-in USB port for charging • LED indicating the battery's status during charging (red - charging, green - full battery) • Two replaceable batteries, 26650 type (each with a capacity of 3000 mAh) • Five operating modes (100%, 50%, 25%, FLASH, SOS) • Rubber seals for protection against water • Included: charger, USB cable, torch case, batteries

Code	Operating mode	
51036	100%, 50%, 25%, FLASH, SOS	24

6 LED USB RECHARGEABLE FLASHLIGHT

• АККУМУЛЯТОРНЫЙ СВЕТОДИОДНЫЙ ФОНАРИК USB
• WIEDERAUFLADBARE USB-LED-TASCHENLAMPE



2700 LUMEN | 3XCREE U2 LED | 3.7V d.c. | Li-Ion 6600 mAh | 3x 18650 | USB RECHARGEABLE LADOWANIE | 100% 50% 25% FLASH | SOS SIGNAL | AL AIRCRAFT GRADE | HIGH POWER

- Torch made of durable and resistant aerospace aluminum • Three efficient CREE U2 high-power (2700 lm) LEDs • Built-in USB port for charging • LED indicating the battery's status during charging (red - charging, green - full battery) • Three replaceable batteries, 18650 type (each with a capacity of 3000 mAh) • Five operating modes (100%, 50%, 25%, FLASH, SOS) • Rubber seals for protection against water • Included: charger, USB cable, torch case, batteries

Code	Operating mode	
51037	100%, 50%, 25%, FLASH, SOS	24

1 LED WORK LIGHT

• СВЕТОДИОДНЫЙ ИНСПЕКЦИОННЫЙ ФОНАРИК • LED-ARBEITSLEUCHTE



51029 x12 | LED 3 W | 180 LUMEN | 3 x AAA 3 x 1.5 V d.c. | AL

- Compact, pen-shaped torch • Made of aluminum • Equipped with a long-lasting COB LED with a luminous flux of 180 lm
- Has a hanging clip and built-in magnet
- 3xAAA power supply (not included) • Sold in a display box with 12 pieces (51029 refers to one piece)

Code	Length (mm)	Operating mode	
51029	165	100%	24/48

2 LED USB RECHARGEABLE FLASHLIGHT

• АККУМУЛЯТОРНЫЙ СВЕТОДИОДНЫЙ ФОНАРИК USB
• WIEDERAUFLADBARE USB-LED-TASCHENLAMPE





LED 3 W | XTE LED | 3.7V d.c. | Li-ion 600 mAh | 160 LUMEN | USB RECHARGEABLE | 100% 50% FLASH | SOS SIGNAL | ZOOM | AL

- Compact, aluminum torch • Equipped with a long-lasting XTE LED with a luminous flux of 160 lm • Has a Li-Ion battery with 600 mAh capacity with a fixed USB socket assuring access to numerous power supply sources equipped with a USB port (for example powerbanks and USB sockets in cars, laptops, phone chargers) • ZOOM function
- Operating modes: 100%, 50%, FLASH, SOS (button held) • Includes a convenient wrist strap

Code	Length (mm)	Operating mode		
51030	95	100%, 50%, FLASH, SOS	x	8/32

3 RECHARGEABLE HEADLAMP

• НАЛОБНЫЙ ФОНАРЬ С АККУМУЛЯТОРОМ • WIEDERAUFLADBARE STIRNLAMPE



150 LUMEN | CREE XPE LED | 1x 18650 | USB RECHARGEABLE | 100% 50% FLASH | ZOOM | AL AIRCRAFT GRADE | HIGH POWER

- Battery-powered headlamp ideal for field work • Adjustable head (up-down) • ZOOM function
- High quality CREE XPE LED with a luminous flux of 150 lm • Equipped with additional red light in the back, which increased the user's visibility and safety • Built-in USB port for charging the torch
- Replaceable 18650 battery (with a capacity of 2200 mAh) • Three operating modes (100%, 50%, FLASH) • Included: USB cable, charger, battery

Code	Operating mode	
51032	100%, 50%, FLASH	36

4 HEADLAMP

• НАЛОБНЫЙ ФОНАРЬ • STIRNLAMPE





135 LUMEN | 3 x AAA 3 x 1.5 V d.c. | CREE XPE LED | 100% 50% FLASH | SOS SIGNAL | ZOOM | HIGH POWER | 2in1 | AL AIRCRAFT GRADE

- Battery-powered headlamp ideal for field work • Adjustable head (up-down) • ZOOM function
- High quality CREE XPE LED with a luminous flux of 150 lm • Equipped with additional red light in the back, which increased the user's visibility and safety • Built-in USB port for charging the torch
- Replaceable 18650 battery (with a capacity of 2200 mAh) • Three operating modes (100%, 50%, FLASH) • Included: USB cable, charger, battery

Code	Operating mode	
51031	100%, 50%, FLASH	48

1 HEX KEYS WITH T HANDLE

• КЛЮЧИ ТИП T HEX • SECHSKANTSCHLÜSSEL MIT T-GRIFF



S2 | HRC 58±2

Code	(mm)		
48520	2.5	x	24/144
48521	3	x	24/144
48522	4	x	24/96
48523	5	x	24/96
48524	6	x	24/96
48525	8	x	12/72
48526	10	x	12/72

2 BALL END HEX KEYS WITH T HANDLE

• КЛЮЧИ ТИП T HEX С ШАРОМ • SECHSKANTSCHLÜSSEL MIT KUGELKOPF UND T-GRIFF



S2 | HRC 58±2

Code	(mm)		
48527	2.5	x	24/144
48528	3	x	24/144
48529	4	x	24/96
48530	5	x	24/96
48531	6	x	24/96
48532	8	x	12/72
48533	10	x	12/72

3 TORX KEYS WITH T HANDLE

• КЛЮЧИ ТИП T TORX • TORXSCHLÜSSEL MIT T-GRIFF



S2 | HRC 58±2

Code	Type		
48534	T6	x	24/144
48535	T7	x	24/144
48536	T8	x	24/144
48537	T9	x	24/144
48538	T10	x	24/144
48539	T15	x	24/96
48540	T20	x	24/96
48541	T25	x	24/96
48542	T27	x	24/96
48543	T30	x	12/72
48544	T40	x	12/72
48545	T45	x	12/72
48546	T50	x	12/72

4 TORX SECURITY KEYS WITH T HANDLE

• КЛЮЧИ ТИП T TORX SECURITY • TORX-SICHERHEITSSCHLÜSSEL MIT T-GRIFF



S2 | HRC 58±2

Code	Type		
48547	T6	x	24/144
48548	T7	x	24/144
48549	T8	x	24/144
48550	T9	x	24/144
48551	T10	x	24/144
48552	T15	x	24/96
48553	T20	x	24/96
48554	T25	x	24/96
48555	T27	x	24/96
48556	T30	x	12/72
48557	T40	x	12/72
48558	T45	x	12/72
48559	T50	x	12/72

5 HEXAGON KEYS

• КЛЮЧИ ШТИФТОВЫЕ ШЕСТИГРАННЫЕ Г-ОБРАЗНЫЕ

• SECHSKANTSCHLÜSSEL



CrV | HRC 46-53

• Quenched and tempered - polished chromium

Code	(mm)	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48441	1.5	42	13	100/600
48442	2	60	20	60/360
48442P	2.5	64	20	60/360
48443	3	68	20	50/300
48444	4	75	25	50/300
48445	5	82	28	150/900
48446	6	95	32	100/600
48447	7	100	34	80/480
48448	8	105	36	60/360
48449	9	115	48	50/300
48450	10	120	40	40/240
48452	12	125	44	20/120
48454	14	140	50	10/60
48457	17	160	53	4/24
48459	19	180	56	3/18
LONG WRENCHES				
48402	2	84	20	60/360
48402P	2.5	92	20	50/300
48403	3	98	20	50/300
48404	4	109	25	50/300
48405	5	120	28	150/900
48406	6	134	32	100/600
48407	7	142	34	60/360
48408	8	149	36	50/300
48409	9	160	38	40/240
48410	10	170	40	25/150
48412	12	195	44	20/120
48414	14	220	49	10/60
48417	17	250	53	4/24
48419	19	300	56	3/18

6 HEX KEYS, EXTRA LONG

• КЛЮЧИ ШТИФТОВЫЕ ШЕСТИГРАННЫЕ ДЛИННЫЕ

• SECHSKANTSCHLÜSSEL EXTRA LANG



CrV | HRC 46-53

• Quenched and tempered - polished chromium

Code	(mm)	L1 (mm)	L2 (mm)	
48460	2	102	18	10/1000/2000
48461	2,5	114.5	20.5	10/500
48462	3	129	23	10/1000/4000
48463	4	144	29	200/1200
48464	5	165	33	10/250
48465	6	185	38	10/200
48466	7	197	41	10/200
48467	8	208	44	10/100/200
48468	9	219	47	35/140
48469	10	234	50	25/100
48470	12	262	57	10/40
48471	14	294	70	30
48472	17	350	70	15/30
48473	19	390	77	2/20

7 EX KEYS WITH BALL END

• КЛЮЧИ ШТИФТОВЫЕ ШЕСТИГРАННЫЕ С ШАРОВЫМ НАКОНЕЧНИКОМ • SECHSKANTSCHLÜSSEL MIT KUGEL



CrV | HRC 46-53

• Quenched and tempered - polished chromium

Code	(mm)	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48474	2	52	18	300/1800
48475	2.5	58.5	20.5	300/1800
48476	3	66	23	300/1800
48477	4	74	29	200/1200
48478	5	85	33	150/900
48479	6	90	38	100/400
48480	7	102	41	10/500
48481	8	108	44	64/320
48482	9	114	47	10/250
48483	10	122	50	10/100
LONG WRENCHES				
48565	2	84	20	200/1200
48566	2,5	92	20	200/1200
48567	3	98	20	200/1200
48568	4	109	25	150/900
48569	5	120	28	150/900
48570	6	134	32	100/600
48571	7	142	34	60/360
48572	8	149	36	50/300
48573	9	160	38	30/180
48574	10	170	40	25/150
EXTRA LONG WRENCHES				
48484	2	102	18	10/120/240
48485	2,5	114.5	20.5	200/1200
48486	3	129	23	200/1200
48487	4	144	29	200/1200
48488	5	165	33	150/600
48489	6	186	38	100/400
48490	7	197	41	60/240
48491	8	208	44	50/200
48492	9	219	47	35/140
48493	10	234	50	50/100
48494	12	262	57	15/60
48495	14	294	70	12/48
48496	17	340	75	6/24

1 TORX KEYS

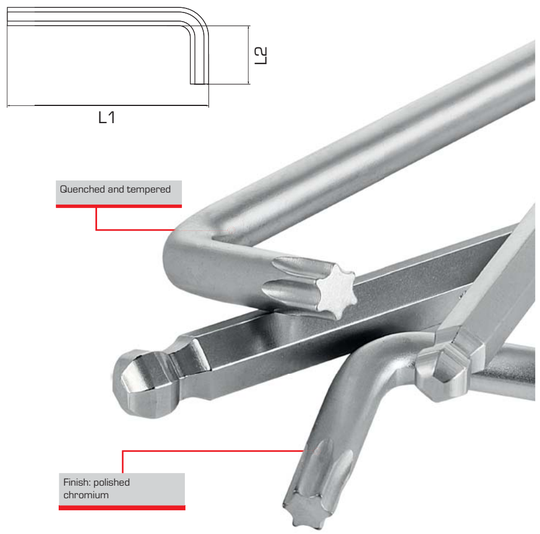
• КЛЮЧИ ШТИФТОВЫЕ TORX • TORX-SCHLÜSSEL



CrV HRC 58±2

• Quenched and tempered - polished chromium

Code	Type	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48497	T6	42	15	10/500/1000
48498	T7	44	15	10/500/1000
48499	T8	46	15	20/200
48500	T9	48	15	10/500/1000
48501	T10	48	17	10/500/1000
48502	T15	53	18	200/1200
48503	T20	58	19	200/1200
48504	T25	65	20	200/1200
48505	T27	72	21	150/900
48506	T30	80	24	150/900
48507	T40	90	26	100/600
48508	T45	102	28	70/420
48509	T50	115	32	50/300
LONG WRENCHES				
48510	T9	80	15	10/500/2000
48511	T10	90	17	10/500/1000
48512	T15	100	18	200/1200
48513	T20	110	19	200/1200
48514	T25	126	20	150/900
48515	T27	140	24	100/600
48516	T30	160	28	125/500
48517	T40	176	32	10/200
48518	T45	195	36	10/100
48519	T50	217	40	10/150



2 TORX SECURITY KEYS

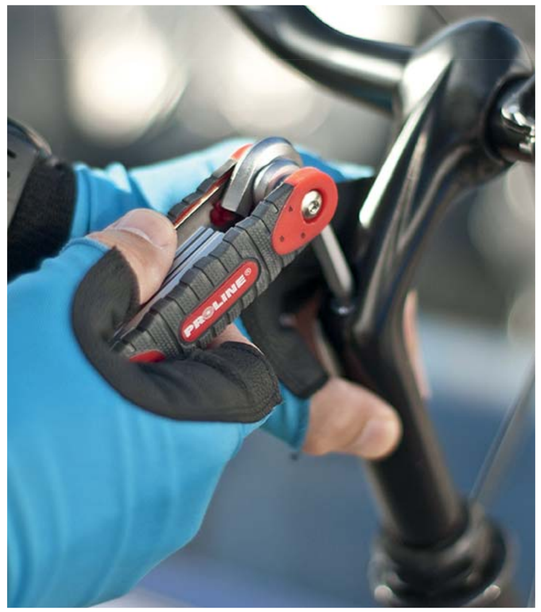
• КЛЮЧИ TORX SECURITY • TORX-SICHERHEITSSCHLÜSSEL



CrV HRC 58±2

• Quenched and tempered - polished chromium

Code	Type	L1 (mm)	L2 (mm)	
WRENCHES WITH A STANDARD LENGTH				
48578	T9	48	15	300/1800
48579	T10	48	17	300/1800
48580	T15	53	18	200/1200
48581	T20	58	19	200/1200
48582	T25	65	20	200/1200
48583	T27	72	21	150/900
48584	T30	80	24	150/900
48585	T40	90	26	100/600
48586	T45	105	28	70/420
48587	T50	115	32	50/300
LONG WRENCHES				
48588	T9	80	15	200/1200
48589	T10	90	17	200/1200
48590	T15	100	18	200/1200
48591	T20	110	19	200/1200
48592	T25	126	20	150/900
48593	T27	140	24	100/600
48594	T30	160	28	100/600
48595	T40	176	32	60/360
48596	T45	195	36	40/240
48597	T50	217	40	30/180



PROLINE

1 HEXAGON KEY SETS

• НАБОРЫ ШТИФТОВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ
• SECHSKANTSCHLÜSSELSÄTZE



CrV HRC 58±2

- Highly resistant to abrasion and twisting steel
- Metal ferrule covered with soft plastic
- **48367** - 2, 3, 4, 5, 6, 8, 10 mm • **48368** - 1.5, 2, 2.5, 3, 4, 5, 6, 8 mm

Code	Quantity (pcs)	Range (mm)		
48367	7	2.0 – 10.0	x	12/48
48368	8	1.5 – 8.0	x	12/48

2 BALL END HEXAGON KEY SET

• НАБОР ШТИФТОВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ С ШАРОВОЙ ГОЛОВКОЙ • SECHSKANTSCHLÜSSELSATZ MIT KUGEL



x8 CrV HRC 58±2

- Highly resistant to abrasion and twisting steel
- Metal ferrule covered with soft plastic
- Enable to use a wrench at the angle of up to 30° to the bolt axis • **8 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8 mm

Code	Range (mm)		
48378	1.5 – 8.0	x	12/96

3 TORX KEY SET

• НАБОР ШТИФТОВЫХ TORX КЛЮЧЕЙ • TORX-SCHLÜSSELSATZ



x8 CrV HRC 58±2

- Highly resistant to abrasion and twisting steel • Metal ferrule covered with soft plastic • **8 pcs.:** T9, T10, T15, T20, T25, T27, T30, T40

Code	Range		
48388	T9 - T40	x	12/96

4 HEXAGON KEY SET

• НАБОР ШТИФТОВЫХ ШЕСТИГРАННЫХ Г-ОБРАЗНЫХ КЛЮЧЕЙ
• SECHSKANTSCHLÜSSELSATZ



x9 CrV HRC 58±2

- Wrenches with a standard length
- **9 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Range (mm)		
48309	1.5 - 10	x	6/36

5 BALL END HEXAGON KEY SET

• НАБОР ШТИФТОВЫХ ШЕСТИГРАННЫХ Г-ОБРАЗНЫХ КЛЮЧЕЙ С ШАРОВОЙ ГОЛОВКОЙ
• SECHSKANTSCHLÜSSELSATZ MIT KUGEL



x9 CrV HRC 58±2

- Long wrenches • Ball ends enable to use a wrench at the angle of up to 30° to the bolt axis • **9 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Range (mm)		
48329	1.5 - 10	x	6/36

6 HEXAGON KEY SET, EXTRA LONG

• НАБОР ШТИФТОВЫХ ШЕСТИГРАННЫХ ДЛИННЫХ Г-ОБРАЗНЫХ КЛЮЧЕЙ
• SECHSKANTSCHLÜSSELSATZ LANG



x9 CrV HRC 58±2

- Long wrenches
- **9 pcs.:** 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Range (mm)		
48319	1.5 - 10	x	6/36

7 TORX KEY SET

• НАБОР ШТИФТОВЫХ TORX Г-ОБРАЗНЫХ КЛЮЧЕЙ
• TORX-SCHLÜSSELSATZ



x9 CrV HRC 58±2

- Wrenches with a standard length • **9 pcs.:** T10, T15, T20, T25, T27, T30, T40, T45, T50

Code	Range		
48339	T10 - T50	x	6/36

1 HEXAGON KEY SET

• НАБОР ШТИФТОВЫХ ШЕСТИГРАННЫХ Г-ОБРАЗНЫХ КЛЮЧЕЙ
• SECHSKANTSCHLÜSSELSATZ



x9 | S2 | HRC 58-62

• Standard lenght wrenches • 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm • Covered handle

Code	
48310	6/36

2 HEXAGON KEY SET, EXTRA LONG

• НАБОР ШТИФТОВЫХ ШЕСТИГРАННЫХ Г-ОБРАЗНЫХ КЛЮЧЕЙ
• SECHSKANTSCHLÜSSELSATZ, EXTRA LANG



x9 | S2 | HRC 58-62

• Long wrenches • 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm
• Covered handle

Code	
48320	6/36

3 BALL END HEXAGON KEY SET

• НАБОР ШТИФТОВЫХ ШЕСТИГРАННЫХ Г-ОБРАЗНЫХ КЛЮЧЕЙ С ШАРОВОЙ ГОЛОВКОЙ
• KUGELKOPF SECHSKANTSCHLÜSSEL-SATZ



x9 | S2 | HRC 58-62

• Long wrenches • Ball ends enable to use wrenches at the angle of up to 30° to the bolt axis • 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm
• Covered handle

Code	
48330	6/36

4 TORX KEY SET

• НАБОР ШТИФТОВЫХ TORX Г-ОБРАЗНЫХ КЛЮЧЕЙ • TORX-SCHLÜSSELSATZ



x9 | S2 | HRC 58-62

• Standard lenght wrenches • T10, T15, T20, T25, T27, T30, T40, T45, T50 • Covered handle

Code	
48340	6/36



PROLINE SCREWDRIVER BITS

Screwdriver bits are tools that, combined with a 1/4 "hex socket, a screwdriver handle or a power tool holder, form one work-ready tool. Strength for screwing in various types of screws and bolts is obtained by using high-strength chrome-vanadium steel or molybdenum steel and heat treating to a hardness of 56-60 HRC.

Choosing the bit type begins with determining the type of socket in the screws that will be used. Next, the working conditions of the bit need to be established, i.e. with which tools or devices will it be used and in what material. Its purpose also needs to be determined – will it be used for batch or unit work.

For soft materials, such as wood, use very hard bits, while for metals, bits with a torsion zone. Using a tip with appropriate material properties has a significant impact on the way the bit tip behaves in the screw socket. Using the right tip eliminates the risk of breaking bits and grinding down screw sockets

BIT TYPES DEPENDING ON THE SHAPE OF WORKING PART

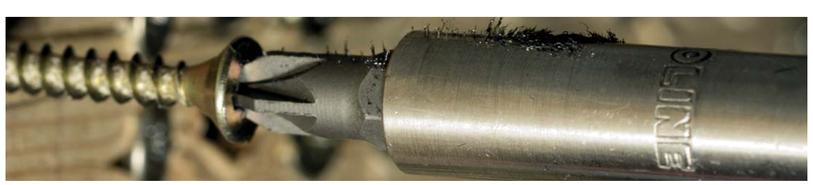
Bits	Picture	Description
		Plain slot
		Phillips (PH)
		Pozidrive (PZ)
		TORX
		TORX security (security)
		Hexagon
		Spanner
		Tri-Wing
		Spline
		Ribe

BIT TYPES DEPENDING ON LENGHT

Bits	Picture	Description	Length
		Standard bits	25 mm
		Long bits	50-150 mm
		Reversible bits	50 mm

BIT TYPES DEPENDING ON MOUNT

1/4" = 6,35 mm	3/8" = 10 mm	5/16" = 8 mm



БИТЫ ДЛЯ ОТВЕРТОК PROLINE

Биты для отверток - это инструменты, которые в сочетании с шестигранным гнездом, рукояткой отвертки или держателем электроинструмента образуют один готовый к работе инструмент.
Прочность для ввинчивания различных типов шурупов и болтов достигается использованием высокопрочной хромованадиевой стали или молибденовой стали с термообработкой до твердости 56-60 HRC.

Выбор бит начинается с определения типа гнезда в винтах, которые будут использоваться. После этого необходимо определить рабочие условия работы, то есть с какими инструментами/устройствами и для какого материала они будут использоваться. Также необходимо определить будут ли биты использоваться для многократной или единичной работы.

Для мягких материалов, таких как древесина, используйте биты повышенной твердости, а для металлов - биты с торсионной зоной. Использование наконечника с соответствующими свойствами материала оказывает значительное влияние на поведение биты в гнезде винта. Использование правильного наконечника исключает риск поломки бит и стачивания гнезд винтов

ВИДЫ БИТ В ЗАВИСИМОСТИ ОТ ФОРМЫ РАБОЧЕГО ЭЛЕМЕНТА

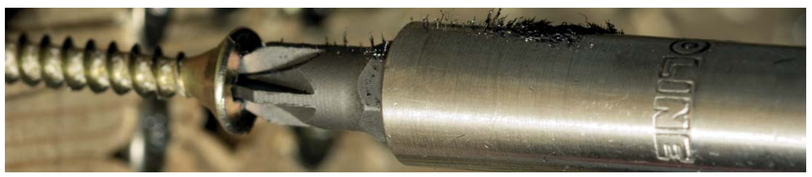
Биты	Изображение	Описание
		Гладкая прорезь
		Phillips (PH)
		Pozidrive (PZ)
		TORX
		TORX security
		Шестиугольник
		Гайковерт
		Tri-Wing
		Шлицы
		Ребро

ВИДЫ БИТ В ЗАВИСИМОСТИ ОТ ДЛИНЫ

Биты	Изображение	Описание	Длина
		Стандартные биты	25 мм
		Длинные биты	50-150 мм
		Двухсторонние биты	50 мм

ВИДЫ БИТ В ЗАВИСИМОСТИ ОТ КРЕПЛЕНИЯ

1/4'' = 6,35 мм	3/8'' = 10 мм	5/16'' = 8 мм



PROLINE SCHRAUBENDREHER-BITS

Schraubendreher-Bits sind Werkzeuge, die zusammen mit einen 1/4 " Innensechskantbithalter, einen Schraubendrehergriff oder einen Elektrowerkzeughalter ein einsatzbereites Werkzeug bilden.
Die Festigkeit für das Einschrauben verschiedener Arten von Schrauben und Bolzen wird erzielt, indem hochfester Chrom-Vanadium-Stahl oder Molybdänstahl verwendet und eine Wärmebehandlung durchgeführt wird, sodass eine Härte von 56 - 60 HRC erzielt wird.

Die Auswahl des Bit-Typs beginnt mit der Bestimmung der Kopfart der verwendeten Schrauben. Als nächstes müssen die Arbeitsbedingungen für den Bit festgelegt werden, z. B. mit welchen Werkzeugen oder Geräten soll der Bit zusammen verwendet werden und in welchem Material. Sein Zweck muss ebenfalls bestimmt werden - soll er für Serien oder Einzelarbeiten eingesetzt werden.

Für weiche Materialien, wie Holz, müssen Bits mit sehr hoher Härte verwendet werden, und für Metalle müssen Bits mit Torsionsbereich verwendet werden. Die Verwendung einer Spitze mit entsprechenden Materialeigenschaften hat einen erheblichen Einfluss auf das Verhalten der Bit-Spitze im Schraubendreherhalter. Durch die Verwendung der korrekten Spitze besteht wird die Gefahr behoben, dass Bits brechen und Schraubenköpfe heruntergeschliffen werden.

BITARTEN NACH DER FORM DES ARBEITSPROFILS

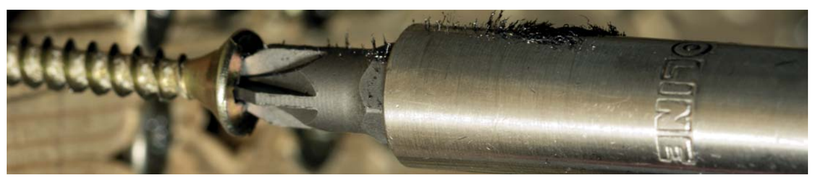
Bits	Bild	Beschreibung
		Einfacher Schlitz
		Phillips (PH)
		Pozidriv (PZ)
		TORX
		TORX security (security)
		Innensechskant
		Spanner
		Tri-Wing
		Spline
		Ribe

BITARTEN NACH LÄNGE

Bits	Bild	Beschreibung	Länge
		Standardbits	25 mm
		Lange Bits	50-150 mm
		Doppeltseitige Bits	50 mm

BITARTEN NACH BEFESTIGUNG

1/4" = 6,35 mm	3/8" = 10 mm	5/16" = 8 mm



1 PLAIN SLOT BITS 1/4", 25 MM

• ШЛИЦЕВЫЕ БИТЫ 1/4", 25 MM • BITS FLACH 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)	BOX	
10614	4.5 x 0.5	10	x	50/100
10615	5.5 x 0.8	10	x	50/100
10616	6.5 x 1.2	10	x	50/100
10618	8.0 x 1.6	10	x	50/100

2 PH BITS 1/4", 25 MM

• БИТЫ КРЕСТОВЫЕ PHILLIPS (PH) 1/4", 25 MM
• BITS KREUZ 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10620	PH 0	25	x	40/80
10621	PH 1	25	x	40/80
10622	PH 2	25	x	40/80
10623	PH 3	25	x	40/80

3 PH BITS 1/4", 50 MM

• БИТЫ КРЕСТОВЫЕ PHILLIPS (PH), 1/4", 50 MM
• BITS KREUZ 1/4", 50 MM



50mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10626	PH 1	10	x	50/100
10627	PH 2	10	x	50/100
10628	PH 3	10	x	50/100

4 HEXAGON BITS 1/4", 25 MM

• ШЕСТИГРАННЫЕ БИТЫ 1/4", 25 MM
• BITS IMBUS 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)	BOX	
10603	3	10	x	30/60
10604	4	10	x	50/100
10605	5	10	x	50/100
10606	6	10	x	50/100

5 TORX BITS 1/4", 25 MM

• БИТЫ TORX 1/4", 25 MM • BITS TORX SECURITY, 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10652	T6	10	x	30/60
10653	T7	10	x	30/60
10654	T8	10	x	30/60
10655	T9	10	x	30/60
10656	T10	10	x	30/60
10657	T15	10	x	50/100
10658	T20	10	x	50/100
10659	T25	10	x	50/100
10660	T27	10	x	30/60
10661	T30	10	x	30/60
10662	T40	10	x	30/60

6 TORX SECURITY BITS 1/4", 25 MM

• БИТЫ TORX С ОТВЕРСТИЕМ 1/4", 25 MM • BITS TORX SECURITY, 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10672	T6	10	x	30/60
10673	T7	10	x	30/60
10674	T8	10	x	30/60
10675	T9	10	x	30/60
10676	T10	10	x	30/60
10677	T15	10	x	30/60
10678	T20	10	x	30/60
10679	T25	10	x	30/60
10680	T27	10	x	30/60
10681	T30	10	x	30/60
10682	T40	10	x	30/60

7 PZ BITS 1/4", 25 MM

• БИТЫ PZ 1/ 4", 25 MM • BITS POZIDRIVE 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10630	PZ 0	25	x	40/80
10631	PZ 1	25	x	40/80
10632	PZ 2	25	x	40/80
10633	PZ 3	25	x	40/80

8 PZ BITS 1/4", 50 MM

• БИТЫ PZ 1/4", 50 MM • BITS POZIDRIVE 1/4", 50 MM



50mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10636	PZ 1	10	x	50/100
10637	PZ 2	10	x	50/100
10638	PZ 3	10	x	50/100

9 REVERSIBLE BITS 1/4", 50 MM

• ДВУХСТОРОННИЕ БИТЫ 1/4", 50 MM • BITS DOPPELSEITIG 1/4", 50 MM



50mm | 1/4" | S2 | HRC 58±2

Code	Type	Quantity (pcs)	BOX	
10641	PH 1 x PH 2	10	x	50/100
10642	PH 2 x PZ 2	10	x	50/100
10643	PZ 1 x PZ 2	10	x	50/100

PROLINE

1 HEXAGON BITS 1/4", 25 MM

• ШЕСТИГРАННЫЕ БИТЫ 1/4", 25 ММ • BIBITS IMBUS 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)		
10610	3	2	x	30/240
10611	4	2	x	30/240
10612	5	2	x	30/240
10613	6	2	x	30/240
10614	8	2	x	30/240
10615	10	2	x	30/240

2 PH BITS 1/4"

• БИТЫ КРЕСТОВЫЕ PHILLIPS (PH) 1/4" • BIBITS KREUZ 1/4"



1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10644	PH1	25	2	x	30/240
10645	PH2	25	2	x	30/240
10646	PH3	25	2	x	30/240
10647	PH1	50	2	x	25/200
10648	PH2	50	2	x	25/200
10649	PH3	50	2	x	25/200

3 PZ BITS 1/4"

• БИТЫ PZ 1/4" • BIBITS POZIDRIVE 1/4"



1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10663	PZ1	25	2	x	30/240
10664	PZ2	25	2	x	30/240
10665	PZ3	25	2	x	30/240
10666	PZ1	50	2	x	25/200
10667	PZ2	50	2	x	25/200
10668	PZ3	50	2	x	25/200

4 PLAIN SLOT BITS 1/4", 25 MM

• ШЛИЦЕВЫЕ БИТЫ 1/4", 25 ММ • GLATTE SCHLITZBITS 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Quantity (pcs)		
10669	4.5	2	x	30/240
10670	5.5	2	x	30/240
10671	6.5	2	x	30/240

5 DRY WALL BITS 1/4"

• БИТЫ 1/4" ДЛЯ ШУРУПОВ ДЛЯ ГИПСОКАРТОНА • TROCKEN-MAUER-BITS 1/4"



GK | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)	
10822	PH2	25	10	40/80
10823	PZ2	25	10	40/80

6 SPANNER BITS 1/4", 25 MM

• БИТЫ SPANNER 1/4", 25 ММ • SCHLÜSSEL-BITS 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10870	4	25	2	x	30/240
10871	6	25	2	x	30/240
10872	8	25	2	x	30/240
10873	10	25	2	x	30/240

7 SPANNER BITS 1/4", 150 MM

• БИТЫ SPANNER 1/4", 150 ММ • SCHLÜSSEL-BITS 1/4", 150 MM



150mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10874	4	150	2	x	25/200
10875	6	150	2	x	25/200
10876	8	150	2	x	25/200
10877	10	150	2	x	25/200

8 TRI-WING BITS 1/4", 25 MM

• БИТЫ TRI-WING 1/4", 25 ММ • TRI-WING-BITS 1/4", 25 MM



25mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10878	1	25	2	x	30/240
10879	2	25	2	x	30/240
10880	3	25	2	x	30/240

9 TRI-WING BITS 1/4", 150 MM

• БИТЫ TRI-WING 1/4", 150 ММ • TRI-WING-BITS 1/4", 150 MM



150mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10881	1	150	2	x	25/200
10882	2	150	2	x	25/200
10883	3	150	2	x	25/200

1 PH BITS 1/4", 100 MM

• БИТЫ PHILIPS 1/4", 100 MM • PH BITS 1/4", 100 MM



100mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10800	PH 0	100	2	x	25/200
10801	PH 1	100	2	x	25/200
10802	PH 2	100	2	x	25/200
10803	PH 3	100	2	x	25/200

2 PZ BITS 1/4", 100MM

• БИТЫ POZIDRIVE 1/4", 100 MM • PZ-BITS 1/4", 100 MM



100mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10804	PZ1	100	2	x	25/200
10805	PZ2	100	2	x	25/200
10806	PZ3	100	2	x	25/200

3 TORX BITS 1/4", 100 MM

• БИТЫ TORX 1/4", 100 MM • TORX-BITS 1/4", 100 MM



100mm | 1/4" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10807	T6	100	2	x	25/200
10808	T7	100	2	x	25/200
10809	T8	100	2	x	25/200
10810	T10	100	2	x	25/200
10811	T15	100	2	x	25/200
10812	T20	100	2	x	25/200
10813	T25	100	2	x	25/200
10814	T27	100	2	x	25/200
10815	T30	100	2	x	25/200
10816	T40	100	2	x	25/200

4 HEXAGON BITS 1/4", 100MM

• БИТЫ HEX 1/4", 100 MM • SECHSKANT-BITS 1/4", 100 MM

100mm | 1/4" | S2 | HRC 58±2

Code	(mm)	Length (mm)	Quantity (pcs)		
10817	H2	100	2	x	25/200
10818	H3	100	2	x	25/200
10819	H4	100	2	x	25/200
10820	H5	100	2	x	25/200
10821	H6	100	2	x	25/200

5 TORX BITS 3/8" (10 MM), 30 MM

• БИТЫ TORX 3/8" (10 MM), 30 MM • TORX-BITS 3/8" (10 MM), 30 MM



30mm | 3/8" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10847	T20	30	2	x	36/216
10848	T25	30	2	x	36/216
10849	T27	30	2	x	36/216
10850	T30	30	2	x	36/216
10851	T40	30	2	x	36/216
10852	T45	30	2	x	36/216
10853	T50	30	2	x	36/216
10854	T55	30	2	x	36/216

6 TORX BITS 3/8" (10 MM), 75 MM

• БИТЫ TORX 3/8" (10 MM), 75 MM • TO RX BITS 3/8" (10 MM), 75 MM



75mm | 3/8" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10824	T20	75	2	x	24/144
10825	T25	75	2	x	24/144
10826	T27	75	2	x	24/144
10827	T30	75	2	x	24/144
10828	T40	75	2	x	24/144
10829	T45	75	2	x	24/144
10830	T50	75	2	x	24/144
10831	T55	75	2	x	24/144

7 HEXAGON BITS 3/8" (10 MM), 30 MM

• БИТЫ HEX 3/8" (10 MM), 30 MM • SECHSKANT-BITS 3/8" (10 MM), 30 MM



30mm | 3/8" | S2 | HRC 58±2

Code	(mm)	Length (mm)	Quantity (pcs)		
10855	H4	30	2	x	36/216
10856	H5	30	2	x	36/216
10857	H6	30	2	x	36/216
10858	H7	30	2	x	36/216
10859	H8	30	2	x	36/216
10860	H9	30	2	x	36/216
10861	H10	30	2	x	36/216
10862	H12	30	2	x	36/216

8 HEXAGON BITS 3/8" (10 MM), 75 MM

• БИТЫ HEX 3/8" (10 MM), 75 MM • SECHSKANT-BITS 3/8" (10 MM), 75 MM



75mm | 3/8" | S2 | HRC 58±2

Code	(mm)	Length (mm)	Quantity (pcs)		
10832	H4	75	2	x	24/144
10833	H5	75	2	x	24/144
10834	H6	75	2	x	24/144
10835	H7	75	2	x	24/144
10836	H8	75	2	x	24/144
10837	H9	75	2	x	24/144
10838	H10	75	2	x	24/144
10839	H12	75	2	x	24/144

9 SPLINE BITS 3/8" (10 MM), 30 MM

• БИТЫ SPLINE 3/8" (10 MM), 30 MM • KEILBITS 3/8" (10 MM) ,30 MM



30mm | 3/8" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10863	M5	30	2	x	36/216
10864	M6	30	2	x	36/216
10865	M7	30	2	x	36/216
10866	M8	30	2	x	36/216
10867	M9	30	2	x	36/216
10868	M10	30	2	x	36/216
10869	M12	30	2	x	36/216

10 SPLINE BITS 3/8" (10 MM), 75 MM

• БИТЫ SPLINE 3/8" (10 MM), 75 MM • KEILBITS 3/8" (10 MM), 75 MM



75mm | 3/8" | S2 | HRC 58±2

Code	Type	Length (mm)	Quantity (pcs)		
10840	M5	75	2	x	24/144
10841	M6	75	2	x	24/144
10842	M7	75	2	x	24/144
10843	M8	75	2	x	24/144
10844	M9	75	2	x	24/144
10845	M10	75	2	x	24/144
10846	M12	75	2	x	24/144

PROLINE®

1 BIT HOLDER 1/4"

• ДЕРЖАТЕЛЬ ДЛЯ БИТ 1/4" • BITHALTER 1/4"



SOFT TOUCH · 1/4"

• Two-component handle made from hard and soft non-slip material

Code	End (Type x Length mm)		
10900	1/4" x 75	x	12/120

2 MAGNETIC BIT HOLDER 1/4"

• МАГНИТНЫЙ ПЕРЕХОДНИК (АДАПТЕР) ДЛЯ БИТ 1/4" • MAGNET-BITHALTER, 1/4"



60mm · 1/4" · CrV · HRC 58±3

Code	Length (mm)	Quantity (pcs)	BOX	
10601	60	5	x	50/100

3 MAGNETIC BIT HOLDER 1/4"

• ДЕРЖАТЕЛЬ ДЛЯ БИТ 1/4" • MAGNETISCHER BITHALTER 1/4"



1/4" · CrV

Code	End (Type x Length mm)		
10708	1/4" x 75	x	24/288
10709	1/4" x 100	x	24/288
10710	1/4" x 150	x	24/288

4 QUICK RELEASE BIT HOLDER 1/4"

• ДЕРЖАТЕЛЬ ДЛЯ БИТ 1/4" • BITHALTER MIT SCHNELLSPANNER 1/4"



QUICK RELEASE · 1/4" · CrV

Code	End (Type x Length mm)		
10712	1/4" x 100	x	18/216
10713	1/4" x 150	x	18/216

5 SOCKET BITS 1/4"

• БИТЫ 1/4" С ТОРЦЕВОЙ ШЕСТИГРАННОЙ (ВНЕШНЕЙ) ГОЛОВКОЙ • BITS MIT SECHSKANTEINSÄTZEN 1/4"



x5 · CrV · HRC 58±2

Code	Size (mm)	BOX	
10690	6	x	30/60
10691	8	x	30/60
10692	10	x	30/60
10693	12	x	30/60
10694	13	x	30/60

6 1/4" ADAPTOR

• ПЕРЕХОДНИК (АДАПТЕР) ДЛЯ БИТ С КВАДРАТОМ 1/4" • ITHALTER, QUADRAT 1/4"



50mm · 1/4" · CrV · HRC 58±2

Code	Quantity (pcs)	BOX	
10602	5	x	30/60

7 1/4" HEX SOCKET ADAPTOR SET, 1/4", 3/8", 1/2"

• ПЕРЕХОДНИК (АДАПТЕР) ДЛЯ БИТ С КВАДРАТОМ 1/4", 3/8", 1/2", HEX 1/4" • BITHALTER 1/4", 3/8", 1/2", HEX 1/4"



1/2" · 3/8" · 1/4" · HRC 50±2

• Handle length 65 mm for 1/4" and 3/8" and 72 mm for 1/2" respectively enabling problem-free work

Code	Quantity (pcs)		
31395	3	x	30/60

1 7 PC. HEX BIT SET H4-H12

• НАБОР 7 ШТ. БИТ 10 ММ HEX H4-H12 • 7 STK. HEX-BITSATZ H4-H12



x7 | 10 mm | 1/2" | S2

• The set includes: • HEX H4, H5, H6, H8, H10, H12 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10750	7	24/48

4 15 PC. TORX „SECURITY" BIT SET T20-T55

• НАБОР 15 ШТ. БИТ 10 ММ TORX "SECURITY" T20-T55 • 15 STK. TORX "SICHERHEITS"-BITSATZ T20-T55



x15 | 10 mm | 1/2'' | S2 | HRC 60±2

• The set includes: • 10 mm 1/2"
• T20, T25, T30, T40, T45, T50, T55, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10745	15	25

7 8 PC. RIBE BIT SET M5-M14

• НАБОР 8 ШТ. БИТ 10 ММ RIBE M5-M14 • 8 STK. RIBE-BIT-SATZ M5-M14



x8 | 10 mm | 1/2" | S2

• The set includes: • RIBE M5, M6, M7, M8, M10, M12, M14 L=30 mm
• 10 mm 1/2"

Code	Quantity (pcs)	
10753	8	24/48

2 15 PC. HEX BIT SET H4-H12

• НАБОР 15 ШТ. БИТ 10 ММ HEX H4-H12 • 15 STK. HEX-BITSATZ H4-H12



x15 | 10 mm | 1/2'' | S2 | HRC 60±2

• The set includes: • 10 mm 1/2"
• H4, H5, H6, H7, H8, H10, H12 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10743	15	25

5 7 PC. TORX BIT SET T25-T55

• НАБОР 7 ШТ. БИТ 10 ММ TORX T25-T55 • 7 STK. TORX BITSATZ T25-T55



x7 | 10 mm | 1/2" | S2

• The set includes: • TORX T25, T30, T40, T45, T50, T55 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10749	7	24/48

8 15 PC. RIBE BIT SET M6-M14

• 15 PC. RIBE BIT SET M6-M14 • 15 STK. RIBE-BIT-SATZ M6-M14



x15 | 10 mm | 1/2'' | S2 | HRC 60±2

• The set includes: • 10 mm 1/2"
• M6, M7, M8, M9, M10, M12, M14, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10746	15	25

3 7 PC. TORX „SECURITY" BIT SET T20-T55

• НАБОР 7 ШТ. БИТ TORX "SECURITY" T20-T55 • 7 STK. TORX "SICHERHEITS"-BITSATZ T20-T55



x7 | 10 mm | 1/2" | S2

• The set includes: • TORX SECURITY T20, T30, T40, T45, T50, T55 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10752	7	24/48

6 15 PC.TORX BIT SET 10MM T20-T55

• НАБОР 15 ШТ. БИТ 10 ММ TORX T20-T55 • 15 STK. TORX-BITSATZ 10MM T20-T55



x15 | 10 mm | 1/2'' | S2 | HRC 60±2

• The set includes: • 10 mm 1/2"
• T20, T25, T30, T40, T45, T50, T55, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10741	15	25

9 6 PC. SPLINE BIT SET M5-M12

• НАБОР 6 ШТ. БИТ 10 ММ SPLINE M5-M12 • 6 STK. KEILBIT-SATZ M5-M12



x6 | 10 mm | 1/2" | S2

• The set includes: • SPLINE M5, M6, M8, M10, M12 L=30 mm • 10 mm 1/2"

Code	Quantity (pcs)	
10751	6	24/48

PROLINE

1 11 PC. SPLINE BIT SET M5-M12

• НАБОР 11 ШТ. БИТ 10 ММ SPLINE M5-M12 • 11 STK. KEIL-BIT--SATZ M5-M12



x11 | 10 mm | 1/2'' | S2 | HRC 60±2

- The set includes: • 10 mm 1/2"
- M5, M6, M8, M10, M12, 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10744	11	25

2 30 PC PRECISION BIT SET

• НАБОР 30 ШТ. БИТ ДЛЯ ТОЧНЫХ РАБОТ, С ДЕРЖАТЕЛЕМ
• 30 STÜCK PRÄZISIONSBITSATZ



x30 | 5/32" | CrMo | HRC 58±2

- The set includes: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, PH000, PH00, PH0, PH1 PZ0, PZ1 T4, T5, T6, T7, T8, T9, T10, T15, T20 H0.7, H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H4.0
- Made of S2 high quality steel

Code	Quantity (pcs)		
10228	30	X	12/72

3 42 PC. RIBE/ TORX BIT SET M4-M14, T20-T70

• НАБОР 42 ШТ. БИТ 10 ММ RIBE M4-M14, TORX T20-T70
• 42 STK. RIBE/ TORX-BIT-SATZ M4-M14,T20-T70



x42 | 10 mm | 1/2" | S2 | HRC 60±2

- The set includes: • 10 mm 1/2", 10 mm
- M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14 T20, T25, T30, T40, T45, T50, T55, T60, T70 , 30 mm and 75 mm one item each

Code	Quantity (pcs)	
10747	42	10

4 27 PC BIT AND SOCKET SET 1/4"

• НАБОР 27 ШТ. БИТ С ТРЕЩОТОЧНЫМ КЛЮЧОМ И ДЕРЖАТЕЛЕМ 1/4" • 27 STK. BIT- UND STECKSCHLÜSSEL-SATZ 1/4"



x27 | 1/4" | 60 | S2 | CrV | HRC 58±2

- The set includes: 4.0, 5.0, 6.0, PH1,PH-2, PH-3 PZ1, PZ2, PZ3 T10, T15, T20, T25, T30 H3, H4, H5, H6, 1/4", 1/4" 60T. • Made of S2 high quality steel

Code	Quantity (pcs)		
10701	27	X	20

5 40 PC XZN, TORX, HEX BIT SET

• НАБОР 40 ШТ. БИТ XZN, TORX, HEX • 40 STK. XZN, TO RX, HEX BIT-SATZ



x40 | 3/8" | 1/2" | S2 | HRC 60±2

- The set includes: • 3/8" 10 mm • 1/2" 10 mm • 10 mm TORX T20, T25, T30, T40, T45, T50, T55 po 1 pcs. 30 and 75 mm XZN M5, M6, M8, M10, M12, 30 and 75 mm HEX 4, 5, 6, 7, 8, 10, 12 mm, 30 and 75 mm one item each

Code	Quantity (pcs)	
10748	40	10

6 27 PC BIT AND SOCKET SET 1/4"

• НАБОР 27 ШТ. БИТ И ГОЛОВОК С ТРЕЩОТОЧНЫМ КЛЮЧОМ И ДЕРЖАТЕЛЕМ 1/4" • 27 STK. BIT- UND STECKSCHLÜSSEL-SATZ 1/4"



x27 | 1/4" | 60 | S2 | CrV | HRC 58±2

- The set includes: 4.0, 5.0, 6.0, PH2, PH-3 PZ2, PZ3 T10, T15, T20, T25, T30 H3, H4, H5, H6, 5, 6, 7, 8, 9, 10, 11, 13mm, 1/4", 1/4" 60T.
- Made of S2 high quality steel

Code	Quantity (pcs)		
10702	27	X	20

1 32 PC BIT SET 1/4”

• НАБОР 32 ШТ. БИТ, 1/4" • 32-STK. BIT-SATZ 1/4"





x32

1/4” | S2 | CrV | HRC 58±2

- The set includes: ⊖SL 3, 4, 5, 6 ⊕PH 1, 2, 3 ⊕PZ 1, 2, 3 ⭘0, 1, 2, 3 ◉H 3, 4, 5, 6 ◎TS 10, 15, 20, 25, 27, 30, 40 ●SPLINE 4, 5, 6, 8 1/4" 60 mm • Made of S2 high quality steel

Code	Quantity (pcs)		
10705	32	X	20

3 71 PC BIT SET 1/4”

• НАБОР 71 ШТ. БИТ, 1/4" • 71 STK. BIT-SATZ 1/4"





x71

1/4” | S2 | CrV | HRC 58±2

- The set includes: ⊖4, 5, 6 ⊕PH 1, 2, 3 ⊕PZ 1, 2, 3 ⭘0, 1, 2, 3 ◉H 4, 5, 6 ◉T 10, 15, 20, 25, 27, 30 ✪SPANNER 4, 6, 8, 10 ◎TORQ 6, 8, 10 ⓘCLUTCH 1, 2, 3 ◉RIBE 4, 5, 6, 7 ●SPLINE 4, 5, 6, 8 SPLINE 4, 5, 6, 8 ⊖TRIWING 1, 2, 3, 4 1/4" 60 mm 1/4" 60 mm
- Made of S2 high quality steel

Code	Quantity (pcs)		
10703	71	X	20

4 22 PC BIT AND SOCKET SCREWDRIVER SET

• НАБОР 22 ШТ. С ОТВЕРТОЧНЫМИ БИТАМИ И БИТАМИ С ТОРЦЕВЫМИ ШЕСТИУГОЛЬНЫМИ ГОЛОВКАМИ • SCHRAUBENDREHER MIT BITS UND EINSÄTZEN - 22 STK.



x22 | CrV | HRC 52±2

- The set includes: • 1/4" • 1/4" • 1/4" ⭘6, 8, 10, 13 mm • 1/4" ⊕PH 1, 2, 3 ⊕PZ 1, 2, 3 ⊖4, 5, 6 mm ◉TORX T10, T15 ◉HEX 3, 4, 5, 6 mm • 1/4"

Code	Quantity (pcs)	
10022	22	6/24

5 ANGLE ADAPTER

• ОТВЁРТКА УГЛОВАЯ УНИВЕРСАЛЬНАЯ (ГНЕЗДА ДЛЯ БИТОВ 1/4") • WINKELSCHRAUBENDREHER UNIVERSAL 1/4"



100mm | 1/4" | 90°

- Made from high quality materials • The handle has snaps to attach the bits securely
- Reinforced (quenched) handles and arm
- Protected with a plastic housing, ensuring reliable screwdriver grip

Code	Length (mm)		
31384	100	x	20/120

2 15 PC BIT SET 1/4”

• НАБОР 15 ШТ. БИТ, 1/4" • 15 STK. BIT-SATZ 1/4"

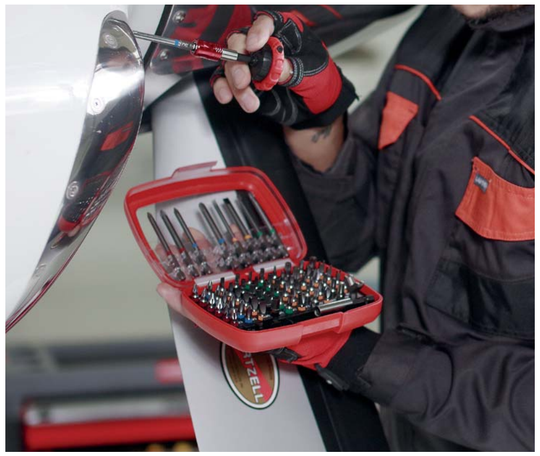


x15

1/4” | S2 | CrV | HRC 58±2

- The set includes: ⊖4, 5, 6, ⊕PH 1, 2, 3 ⊕PZ 1, 2, 3 ◉T 10, 15, 20, 25, 30 1/4"
- Made of S2 high quality steel

Code	Quantity (pcs)		
10704	15	X	12/24



1 10 PC BIT SETS 1/4”

• НАБОРЫ 10 ШТ. БИТ 1/4”С МАГНИТНЫМ ПЕРЕХОДНИКОМ (АДАПТЕРОМ) • BITS-SET 1/4” - 10 STK.



x10 | 1/4” | CrV | HRC 58±2

• The set includes: 10699: ⊕ PH1 - 1 pcs., PH2 - 3 pcs. ⊕ PZ1 - 1 pcs., PZ2 - 3 pcs. ✱ 6 mm - 1 pcs., 1/4” 10700: ⊕ PH1, PH2, PH3 ⊛ PZ1, PZ2, PZ3 ⊖ 5, 6 mm ✱ 4 mm, 1/4”

Code	Quantity (pcs)		
10699	10	x	12/72
10700	10	x	12/72

2 23 PC SCREWDRIVER / SOCKET SET

• НАБОР 23 ШТ. С УНИВЕРСАЛЬНОЙ ОТВЕРТКОЙ -ТРЕЩОТОЧНЫМ КЛЮЧОМ • 23 STK. SCHRAUBENDREHER-/STECKSCHLÜSEL-SATZ



x23 | CrV

• The set includes: • 1/4” • • 60 mm • 1/4” ⊖ 3, 4, 5, 6 mm ⊕ PH 0, 1, 2, 3 • 1/4” • 1/4” 5, 6, 7, 8, 9, 10, 11, 12, 13 mm • • Packed in a plastic box and cardboard packaging

Code	Quantity (pcs)	
10008	23	20

3 KEYLESS CHUCK 1/4”

• СВЕРЛИЛЬНЫЙ ПАТРОН САМОЗАЖИМНОЙ С ШЕСТИУГОЛЬНЫМ ХВОСТОВИКОМ 1/4” • SCHNELLSPANNBOHRFUTTER MIT SECHSKANTAUFNAHME 1/4”



max 1500 RPM | Ø 0.5-6.0mm | 1/4”

• Made from high quality materials • Hex socket handle 1/4”

Code	Size (mm)		
31394	0.5-6.0	x	12/48

4 7 PC BIT SET 1/4”

• НАБОР 7 ШТ. БИТ 1/4”С МАГНИТНЫМ ПЕРЕХОДНИКОМ (АДАПТЕРОМ) • 7-TLG. SET BITS, 1/4”



x7 | 1/4” | CrV | HRC 58±2

• The set includes: ⊕ PH1, PH2 ⊕ PZ1, PZ2 ⊖ 5.5, 6.5 mm 1/4” • Can be used as a screwdriver

Code	Quantity (pcs)	
10697	7	24/144

5 RATCHET SCREWDRIVER WITH 12 BITS

• ОТВЕРТКА С ТРЕЩОТОЧНЫМ КЛЮЧОМ 12 ШТ.
• SCHRAUBENDREHER MIT RATSCHE - 12-TLG. SET



x12 | CrV S2

• Handle with a 3-position ratchet, 6 double blades hidden in the handle: PH1 - flat 4 mm, PH2 - flat 5 mm, PZ1 - H 4 mm, PZ2 - H 5 mm , T10 - T15, T20 - T25

Code	Quantity (pcs)		
10028	6 x 2	x	24/96

6 90° ANGLE ADAPTER WITH BEARINGS

• АДАПТЕР УГЛОВОЙ ДЛЯ АККУМУЛЯТОРНЫХ ШУРУПОВЕРТОВ
• WINKELADAPTER FÜR AKKUSCHRAUBER



R/L | max 400 RPM | max 13Nm | 1/4”

Code	Length (mm)		
31380	158	x	6/36

7 COUPLERS FOR BITS 1/4”

• АДАПТЕРЫ ДЛЯ БИТ • BIT-ADAPTER

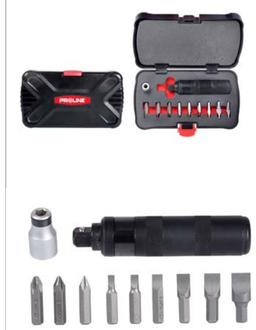


1/2” | 3/8” | 1/4” | CrV

Code	Square	Length (mm)	
10607	1/4”	25	50/600
10608	3/8”	30	25/400
10609	1/2”	38	25/200

8 IMPACT SCREWDRIVER

• ОТВЕРТКА УДАРНО-ПОВОРОТНАЯ • SCHLAGSCHRAUBER



5/16” | 1/2” | CrV | S2

• Works in both directions: counterclockwise and clockwise • Screwdriver made from high quality CrV steel, bits made from S2 steel • PH1, 2, 3, PL 5, 6, 8, 10, 12, 14 • Stored in a plastic box with a foam insert

Code	Quantity (pcs)	
10016	9	15



1 "SOFT –TOUCH" SCREWDRIVERS

• ОТВЕРТКИ С ПОКРЫТИЕМ "SOFT –TOUCH" • SCHRAUBENDREHER „SOFT-TOUCH"

SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Two-component handle made from hard and soft, non-slip material
- Colour-coded handle:



Slot

- Bits 5 mm wide only in parallel

- Bits more than 6 mm wide only in standard



Code	Code on the suspension	Tip width (mm)	Length (mm)	
10151	ZR10151	2.5	63	12/600
10152	ZR10152	3.2	75	12/600
10158	ZR10158	3.2	100	12/600
10100	ZR10100	3.2	150	12/300
10153	ZR10153	5.0	100	12/240
10154	ZR10154	5.0	150	12/240
10103	ZR10103	5.0	200	12/240
10104	ZR10104	5.0	250	12/240
10150	ZR10150	6.0	38	12/300
10106	ZR10106	6.0	100	12/240
10155	ZR10155	6.0	150	12/240
10108	ZR10108	6.0	200	12/96
10109	ZR10109	6.0	250	12/96
10156	ZR10156	8.0	150	6/120
10112	ZR10112	9.5	200	6/96

Phillips (PH)



Code	Code on the suspension	Tip type	Length (mm)	
10080	ZR10080	PH 000	63	12/600
10081	ZR10081	PH 00	63	12/600
10161	ZR10161	PH 0	75	12/600
10083	ZR10083	PH 0	100	12/600
10084	ZR10084	PH 0	150	12/300
10162	ZR10162	PH 1	100	12/240
10086	ZR10086	PH 1	150	12/240
10087	ZR10087	PH 1	200	12/240
10088	ZR10088	PH 1	250	12/240
10168	ZR10168	PH 2	38	12/300
10163	ZR10163	PH 2	100	12/240
10164	ZR10164	PH 2	150	12/240
10092	ZR10092	PH 2	200	12/96
10093	ZR10093	PH 2	250	12/96
10165	ZR10165	PH 3	150	6/120
10167	ZR10167	PH 4	200	6/120

Pozidrive (PZ)



Code	Code on the suspension	Tip type	Length (mm)	
10171	ZR10171	PZ 0	75	12/600
10172	ZR10172	PZ 1	100	12/240
10173	ZR10173	PZ 2	38	12/300
10176	ZR10176	PZ 2	100	12/240
10174	ZR10174	PZ 2	150	12/240
10175	ZR10175	PZ 3	150	6/120

TORX T6-T9

TORX - Security T10-T40 - with an opening



Code	Code on the suspension	Tip type	Length (mm)	
10182	ZR10182	T6	75	12/240
10183	ZR10183	T7	75	12/240
10184	ZR10184	T8	75	12/300
10185	ZR10185	T9	75	12/300
SECURITY				
10190	ZR10190	T10	100	12/240
10191	ZR10191	T15	100	12/300
10192	ZR10192	T20	100	12/300
10193	ZR10193	T25	100	12/144
10194	ZR10194	T27	100	12/144
10195	ZR10195	T30	100	12/144
10196	ZR10196	T40	100	12/144

2 5 PC. "SOFT –TOUCH" SCREWDRIVER SET

• НАБОР 5 ШТ. ОТВЕРТОК С ПОКРЫТИЕМ "SOFT –TOUCH"
• SCHRAUBENDREHER „SOFT-TOUCH" - 5-TLG. SET



x5 | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Two-component handle made from hard and soft, non-slip material
- The set includes:
  - ⊖ 3.2 x 75, 5 x 100, 6 x 150 mm
  - ⊕ PH 1 x 75, 2 x 100 mm

Code	Quantity (pcs)		
10208	5	x	6/36



3 68 PC. „SOFT-TOUCH" SCREW-DRIVER SET

• НАБОР 68 ШТ. ОТВЕРТОК С ПОКРЫТИЕМ "SOFT-TOUCH"
• SCHRAUBENDREHER - 68-TLG. SET



x68 | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Display set • Stand with 68 screwdrivers, with two-component handle made from hard and soft, non-slip material • The set includes:
  - ⊖ 2.5 x 63 - 6 pcs., 3.2 x 75 - 6 pcs., 5 x 100 - 4 pcs., 5 x 150 - 4 pcs., 6 x 150 - 4 pcs., 8 x 150 - 4 pcs.
  - ⊕ PH 0 x 75 - 6 pcs., 1 x 100 - 4 pcs., 2 x 100 - 4 pcs., 2 x 150 - 4 pcs., 3 x 150 - 4 pcs.
  - ⊕ PZ 0 x 75 - 6 pcs., 1 x 100 - 4 pcs., 2 x 100 - 4 pcs., 3 x 150 - 4 pcs.

Code	Quantity (pcs)	
10211	68	2

4 6 PC. "SOFT –TOUCH" SCREW-DRIVER SET

• НАБОР 6 ШТ. ОТВЕРТОК С ПОКРЫТИЕМ "SOFT –TOUCH"
• SCHRAUBENDREHER „SOFT-TOUCH" - 6-TLG. SET



x6 | SOFT TOUCH | Cr-V-Mo | HRC 56±2

- Two-component handle made from hard and soft, non-slip material • Shelf hung on the wall
- The set includes:
  - ⊖ 3.2 x 75, 5 x 100, 6 x 150 mm
  - ⊕ PH 0 x 75, 1 x 75, 2 x 100 mm

Code	Quantity (pcs)		
10207	6	x	6/36

PROLINE

1 SCREWDRIVERS

• ОТВЁРТКИ • SCHRAUBENDREHER



SOFT TOUCH | S2 | HRC 58±2

- Works in both directions: counterclockwise and clockwise • Screwdriver made from quality CrV steel, bits made from S2 steel • PH1, 2, 3, Pt. 5, 6, 8, 10, 12, 14 • Stored in a plastic box with a foam insert

Slot



Code on the suspension	Tip width (mm)	Length (mm)	
10901	2.5	65	12/240
10902	3.0	75	12/240
10903	5.0	100	12/240
10904	6.0	38	12/120
10905	6.0	100	12/120
10906	8.0	150	6/60

Phillips (PH)



Code on the suspension	Tip type	Length (mm)	
10915	PH0	75	12/240
10916	PH1	100	12/120
10917	PH2	38	12/240
10918	PH2	100	12/120
10919	PH3	150	6/60

Pozidrive (PZ)



Code on the suspension	Tip type	Length (mm)	
10925	PZ0	75	12/240
10926	PZ1	100	12/120
10927	PZ2	38	12/240
10928	PZ2	100	12/120
10929	PZ3	150	6/60

2 SET OF SCREWDRIVERS AND BITS

• НАБОР ОТВЁРТОК И БИТ • SCHRAUBENDREHER- UND BITSATZ





x37 | SOFT TOUCH | S2 | HRC 58±2

- ⊖ 6x38, 5x75, 6x100, 8x150 ⊛ PH1x75, 2x38, 2x100, 3x150 ◉ Bit Holder 1/4"x75 mm • ⊖ 2.5x50, 3.0x50 ⊛ PH00x50, PH0x50 ◉ T5x50, 6x50, 7x50, 8x50 • ◉ T10, 15, 20, 25, 30, 40 ◉ H3, 4, 5, 6 ⊖ 4, 5, 6 ⊛ PH1, 2, 3 ⊕ PZ0, 1, 2, 3
- Two-component handle made of hard and soft anti-slip plastic • Magnetic, high-quality S2 steel bits • Wall mounting holes

Code	Quantity (pcs)	
10937	37	6/12



1 GO THROUGH SCREWDRIVERS

• УДАРНЫЕ ОТВЁРТКИ • SCHLAGSCHRAUBENDREHE



SOFT TOUCH · CrV · HRC 52±2

• Two-component handle

Code	Tip width (mm)	Length (mm)		
10114	6	100	x	6/120
10115	6	150	x	6/120
10116	6	200	x	6/120
10117	6	250	x	6/120
Code	**Tip width (mm)**	**Length (mm)**		
10144	PH2	100	x	6/120
10145	PH2	150	x	6/120
10146	PH3	150	x	6/60
10147	PH3	200	x	6/60
10148	PH3	250	x	6/60

2 ELECTRICIAN SCREWDRIVERS 1000 V

• ЭЛЕКТРОТЕХНИЧЕСКИЕ ИЗОЛИРОВАННЫЕ ОТВЕРТКИ 1000В
• ELEKTROSCHRAUBENDREHER 1000 V



1000V · Cr-V-Mo · HRC 58±2

• Handle made from non-slip material, ensuring safe grip

Code	Code on the suspension	Tip width (mm)	L (mm)	
10511	**ZR10511**	3.0	100	30/120
10513	**ZR10513**	4.0	100	25/100
10514	**ZR10514**	5.5	125	20/80
10515	**ZR10515**	6.5	150	15/60
Code	**Code on the suspension**	**Tip type**	**L (mm)**	
10516	**ZR10516**	PZ 0	100	30/120
10517	**ZR10517**	PZ 1	80	25/100
10518	**ZR10518**	PZ 2	100	20/80

3 6 PC. ELECTRICIAN SCREWDRIVER 1000 V SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ИЗОЛИРОВАННЫХ ОТВЕРТОК 1000В ЧИСЛО ПРЕДМЕТОВ - 6 ШТ.



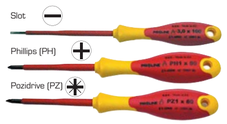
x6 · 1000V · Cr-V-Mo · HRC 58±2

• Handle made from non-slip material, ensuring safe grip
• The set includes:
- ⊖ 5.5 x 125, 4 x 100, 3 x 100 mm
- ⊕ PH 1 x 80, 2 x 100 mm
• Voltage indicator 200 - 250 V, 140 mm
• Delivered in plastic box

Code	Quantity (pcs)		
10510	6	x	10

4 ELECTRICIAN SCREWDRIVERS 1000 V

• ЭЛЕКТРОТЕХНИЧЕСКИЕ ИЗОЛИРОВАННЫЕ ОТВЕРТКИ 1000В
• ELEKTROSCHRAUBENDREHER 1000 V - 6-TLG. SET



1000V · Cr-V-Mo · HRC 58±2

• Two-component non-slip handle

Code	Tip width (mm)/ Type	L (mm)	
10573	2.5	75	80/320
10574	3.0	100	60/240
10575	3.5	100	50/200
10576	4.0	100	50/200
10577	4.5	125	40/160
10578	5.5	125	30/120
10579	6.5	150	25/100
Code	**Tip width (mm)/ Type**	**L (mm)**	
10592	PH 0	60	80/320
10593	PH 1	80	40/160
10594	PH 2	100	30/120
10595	PZ 0	60	80/320
10596	PZ 1	80	40/160
10597	PZ 2	100	30/120

5 DIGITAL VOLTAGE TESTER

• ИНДИКАТОР НАПРЯЖЕНИЯ • SPANNUNGSPRÜFER



LCD DISPLAY · 50-60 Hz · 12-250V · CE

• Metering range 12-250V, 50-60Hz • Contact test - to check direct and alternating current voltage in the display range of 12-36-55-110-220V • Induction test - voltage detection through insulation • Batteries not required

Code	Metering range (V)	Full length (mm)		
10542	12-250	125	x	20/500

6 DIGITAL VOLTAGE TESTER

• ИНДИКАТОР НАПРЯЖЕНИЯ • SPANNUNGSPRÜFER



LCD DISPLAY · 50-60 Hz · 12-250V · CE

• Metering range 12-250V, 50-60Hz • Contact test - to check direct and alternating current voltage in the display range of 12-36-55-110-220V • Induction test - voltage detection through insulation • Batteries not required

Code	Metering range (V)	Full length (mm)		
10543	12-250	125	x	20/500

7 DIGITAL VOLTAGE TESTER

• ИНДИКАТОР НАПРЯЖЕНИЯ • SPANNUNGSPRÜFER



LCD DISPLAY · 50-60 Hz · 12-250V · CE

• Metering range 12-250V, 50-60Hz • Contact test - to check direct and alternating current voltage in the display range of 12-36-55-110-220V • Induction test - voltage detection through insulation • Batteries not required

Code	Metering range (V)	Full length (mm)		
10544	12-250	160	x	6/120

8 PRECISION SCREWDRIVER SET

• НАБОР ОТВЕРТОК ДЛЯ ТОЧНОЙ МЕХАНИКИ И ЭЛЕКТРОНИКИ (ОТВЕРТКИ ЧАСОВЩИКА) • UHRMACHERSCHRAUBENDREHER



x6 · Ni-Cr-Mo

• Handle made from soft plastic, non-slip, ensuring additional rotational torque when screwing • Box structure ensures easy and convenient access to screwdrivers
• Perfect set for watchmakers, jewellers, electronic engineers and other specialists dealing with precision components and structures
• The set includes:
• **10226** - ⊖ 1.4 , 2.0, 2.4 mm - ⊕ PH00, PH0, PH1
• **10225** - ⊛ TORX T4, T5, T6, T7, T9, T10

Code	Quantity (pcs)		
10225	6	x	25/100
10226	6	x	25/100

9 PRECISION SCREWDRIVER SET

• НАБОР ОТВЕРТОК ДЛЯ ТОЧНОЙ МЕХАНИКИ И ЭЛЕКТРОНИКИ (ОТВЕРТКИ ЧАСОВЩИКА) • UHRMACHERSCHRAUBENDREHER



x6 · Ni-Cr-Mo

• Bits: special Ni-Cr-Mo steel, quenched
• Handy and non-slip handle • Perfect set for watchmakers, jewellers, electronic engineers and other specialists dealing with precision components and structures
• The set includes: **10226** - ⊖ 1.4 , 2.0, 2.4 mm - ⊕ PH00, PH0, PH1

Code	Quantity (pcs)		
10229	6	x	20/100

PROLINE

1 COMBINATION PLIERS

• ПЛОСКОГУБЦЫ КОМБИНИРОВАННЫЕ • KOMBIZANGE



CrV HRC 54±2

- Forged, quenched, made from high-grade tool steel • Jaws for conductor cutting and shaping • Two-composite, non-slip TPR handle

Code	Size (mm)		
28703	160	x	6/36
28704	180	x	6/36
28705	200	x	6/36

4 LONG NOSE PLIERS

• ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКО -КРУГЛЫЕ ГУБКИ
• HALBRUNDZANGE GRAD



CrV HRC 54±2

- Forged, quenched, made from high-grade tool steel • Semi-circular jaws, with furrows, for shaping conductors, with lateral cutting edge • Two-composite, non-slip TPR handle

Code	Size (mm)		
28706	160	x	6/36
28707	200	x	6/36

7 COMBINATION PLIERS

• ПЛОСКОГУБЦЫ КОМБИНИРОВАННЫЕ • KOMBIZANGE



CrV HRC 54±2

- Forged, quenched, made from high-grade tool steel • Flat jaws, with furrows, for shaping conductors • Two-composite, non-slip TPR handle

Code	Size (mm)		
28470	160	x	12/72
28471	180	x	12/72
28472	200	x	12/72

2 DIAGONAL SIDE CUTTERS

• КУСАЧКИ БОКОВЫЕ • SEITENSCHNEIDER



CrV HRC 54±2

- Forged, quenched, made from high-grade tool steel • Jaws with high cutting power
- Two-composite, non-slip TPR handle

Code	Size (mm)		
28708	160	x	6/36
28709	180	x	6/36

5 BENT NOSE PLIERS

• ПЛОСКОГУБЦЫ ГНУТЫЕ ПЛОСКО-КРУГЛЫЕ ГУБКИ • HALBRUNDZANGE ABGEWINKELT



CrV HRC 54±2

- Forged, quenched, made from high-grade tool steel • Semi-circular jaws, with furrows, curved for shaping conductors, with lateral cutting edge
- Two-composite, non-slip TPR handle

Code	Size (mm)		
28714	160	x	6/36
28715	200	x	6/36

8 DIAGONAL SIDE CUTTERS

• КУСАЧКИ БОКОВЫЕ • SEITENSCHNEIDER



CrV HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28480	160	x	12/72
28481	180	x	12/72

3 END CUTTING PLIERS

• КУСАЧКИ ТОРЦЕВЫЕ • FRONTSCHNEIDER



CrV HRC 54±2

- Forged, quenched, made from high-grade tool steel • Jaws with high cutting power and strength • Two-composite, non-slip TPR handle

Code	Size (mm)		
28713	160	x	6/36

6 FLAT NOSE PLIERS

• ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКИЕ ГУБКИ • FLACHZANGE



CrV HRC 54±2

- Forged, quenched, made from high-grade tool steel • Flat jaws, with furrows, for shaping conductors • Two-composite, non-slip TPR handle

Code	Size (mm)		
28716	160	x	6/36

9 SNIPE NOSE PLIERS

• ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКО -КРУГЛЫЕ ГУБКИ
• HALBRUNDZANGE GRADE



CrV HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28473	160	x	12/72
28475	200	x	12/72

1 SNIPE NOSE PLIERS, BENT

- ПЛОСКОГУБЦЫ ГНУТЫЕ С ПЛОСКО-КРУГЛЫМИ ГУБКАМИ
- HALBRUNDZANGE ABGEWINKELT



CrV · HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28477	160	x	12/72
28479	200	x	12/72

2 WIRE STRIPPING PLIERS

- КЛЕЩИ (КУСАЧКИ) ДЛЯ СНЯТИЯ ИЗОЛЯЦИИ
- ABISOLIERZANGE



160 mm · 0,5-5 mm² · CrV · HRC 40±2

- From chromium and vanadium steel • Two-composite, non-slip TPR handle

Code	Wire cross-section (mm²)		
28486	0.5 - 5	x	12/72

3 COMBINATION PLIERS – 1000 V

- ПЛОСКОГУБЦЫ КОМБИНИРОВАННЫЕ 1000В
- KOMBIZANGE 1000 V



1000V · CrV · HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28521	160	x	12/72
28522	180	x	12/72
28523	200	x	12/72

4 DIAGONAL SIDE CUTTERS – 1000 V

- КУСАЧКИ БОКОВЫЕ (БОКОРЕЗЫ) 1000В
- SEITENSCHNEIDER 1000 V



1000V · CrV · HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28526	160	x	12/72
28528	180	x	12/72

5 SNIPE NOSE PLIERS – 1000 V

- ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКО - КРУГЛЫЕ ГУБКИ 1000В
- HALBRUNDZANGE GRADE



1000V · CrV · HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28513	160	x	12/72
28515	200	x	12/72

6 SNIPE NOSE PLIERS, BENT - 1000 V

- ПЛОСКОГУБЦЫ ГНУТЫЕ ПЛОСКО - КРУГЛЫЕ ГУБКИ 1000В
- HALBRUNDZANGE ABGEWINKELT 1000 V



1000V · CrV · HRC 54±2

- Forged, from high-grade chromium and vanadium steel, guaranteeing improved durability of the pliers, higher resistance to abrasion and offering improved technical parameters • Two-composite, non-slip TPR handle

Code	Size (mm)		
28516	160	x	12/72
28518	200	x	12/72

7 WIRE STRIPING PLIERS 1000V

- КЛЕЩИ (КУСАЧКИ) ДЛЯ СНЯТИЯ ИЗОЛЯЦИИ 1000В
- ABISOLIERZANGE



160 mm · 1000V · 0,5-5 mm² · CrV · HRC 40±2

- From chromium and vanadium steel
- Two-composite, non-slip TPR handle

Code	Wire cross-section (mm²)		
28519	0.5 - 5	x	12/72

8 COMBINATION PLIERS

- ПЛОСКОГУБЦЫ КОМБИНИРОВАННЫЕ • KOMBIZANGE



- Forged, made from high-grade tool steel
- Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28750	160	x	6/60
28751	180	x	6/60
28752	200	x	6/60

9 DIAGONAL SIDE CUTTERS

- КУСАЧКИ БОКОВЫЕ (БОКОРЕЗЫ) • SEITENSCHNEIDER



- Forged, made from high-grade tool steel
- Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28760	160	x	6/60

PROLINE®

1 END CUTTING PLIERS
• КУСАЧКИ ТОРЦЕВЫЕ • FRONTSCHNEIDER



- Forged, made from high-grade tool steel
- High cutting power • Strong blades • Satin
- Ergonomic handles from high-grade material

Code	Size (mm)		
28765	160	x	6/60

2 SNIPE NOSE PLIERS
• ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКО -КРУГЛЫЕ ГУБКИ (ДЛИННОГУБЦЫ) • HALBRUNDZANGE GRADE



- Semi-circular jaws with furrows • Side cutting edge • Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28770	160	x	6/60

3 SNIPE NOSE PLIERS, BENT
• ПЛОСКОГУБЦЫ ГНУТЫЕ ПЛОСКО -КРУГЛЫЕ ГУБКИ (ДЛИННОГУБЦЫ) • HALBRUNDZANGE ABGEWINKELT



- Forged, made from high-grade tool steel
- Semi-circular jaws with furrows • Side cutting edge • Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28771	160	x	6/60

4 FLAT NOSE PLIERS
• ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКИЕ ГУБКИ • FLACHZANGE



- Forged, made from high-grade tool steel
- Short, flat jaws with furrows • Satin
- Ergonomic handles from high-grade material

Code	Size (mm)		
28772	160	x	6/60

5 ROUND NOSE PLIERS
• КРУГЛОГУБЦЫ • RUNDZANGE



- Forged, made from high-grade tool steel
- Satin • Ergonomic handles from high-grade material

Code	Size (mm)		
28773	160	x	6/60

6 COMBINATION PLIERS
• ПЛОСКОГУБЦЫ КОМБИНИРОВАННЫЕ • KOMBIZANGE



- Forged, made from high-grade tool steel
- Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28700	160	x	6/60
28701	180	x	6/60
28702	200	x	6/60

7 DIAGONAL SIDE CUTTERS
• КУСАЧКИ БОКОВЫЕ (БОКОРЕЗЫ) • SEITENSCHNEIDER



- Forged, made from high-grade tool steel
- Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28710	160	x	6/60
28711	180	x	6/60
28712	200	x	6/60

8 SNIPE NOSE PLIERS
• ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКО -КРУГЛЫЕ ГУБКИ (ДЛИННОГУБЦЫ) • HALBRUNDZANGE GRADE



- Forged, made from high-grade tool steel
- Semi-circular, elongated jaws with furrows
- Side cutting edge • Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28720	160	x	6/60

9 SNIPE NOSE PLIERS, BENT
• ПЛОСКОГУБЦЫ ГНУТЫЕ ПЛОСКО -КРУГЛЫЕ ГУБКИ (ДЛИННОГУБЦЫ) • HALBRUNDZANGE GRADE



- Forged, made from high-grade tool steel
- Semi-circular, elongated jaws with furrows
- Side cutting edge • Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28721	160	x	6/60

10 FLAT NOSE PLIERS
• ПЛОСКОГУБЦЫ ПРЯМЫЕ ПЛОСКИЕ ГУБКИ • FLACHZANGE

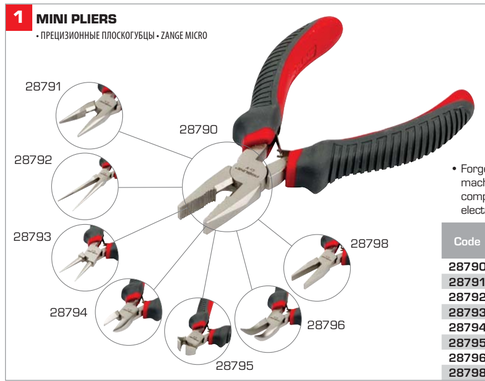


- Forged, made from high-grade tool steel
- Short, flat jaws with furrows • Satin • Two-composite, non-slip TPR handle

Code	Size (mm)		
28722	160	x	6/60

1 MINI PLIERS

• ПРЕЦИЗИОННЫЕ ПЛОСКОГУБЦЫ • ZANGE MICRO





HRC 60±5

MICRO

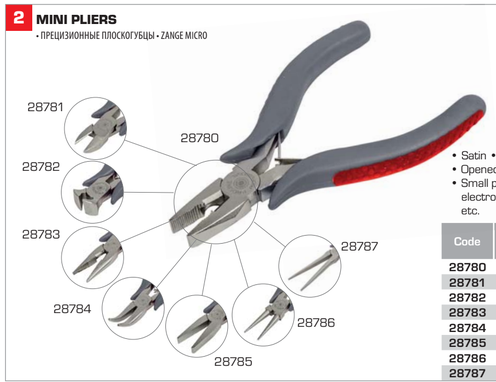
CrV

• Forged, quenched, made from high-grade tool steel • Precise machining of jaws and edges • Opened by return spring • Two-composite, non-slip TPR handle • Designed for precision works in electronic engineering, watchmaking, modelling, micromechanics etc.

Code	Type	Size (mm)		
28790	combination	120	x	6/36
28791	snipe nose	125	x	6/36
28792	elongated nose	150	x	6/36
28793	round nose	125	x	6/36
28794	diagonal side	115	x	6/36
28795	end cutting	105	x	6/36
28796	snipe nos, bent	125	x	6/36
28798	flat nose	125	x	6/36

2 MINI PLIERS

• ПРЕЦИЗИОННЫЕ ПЛОСКОГУБЦЫ • ZANGE MICRO





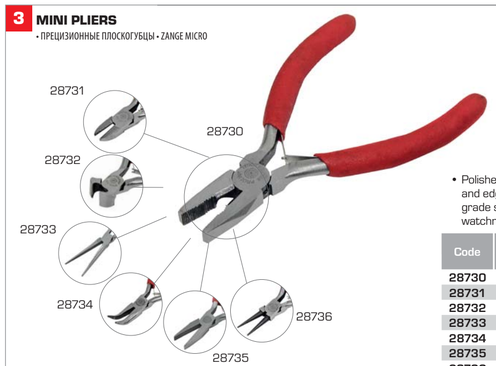
MICRO

• Satin • Delivered on a card • Precise machining of jaws and edges
• Opened by return spring • Two-composite, non-slip TPR handle
• Small pliers from high-grade steel, designed for precision works in electronic engineering, watchmaking, modelling, micromechanics etc.

Code	Type	Size (mm)		
28780	combination	120	x	12/144
28781	diagonal side	110	x	12/144
28782	end cutting	110	x	12/144
28783	needle nose	120	x	12/144
28784	snipe nos, bent	120	x	12/144
28785	flat nose	120	x	12/144
28786	round nose	120	x	12/144
28787	elongated nose	120	x	12/144

3 MINI PLIERS

• ПРЕЦИЗИОННЫЕ ПЛОСКОГУБЦЫ • ZANGE MICRO





MICRO

• Polished • Handles with flexible lining • Precise machining of jaws and edges • Opened by return spring • Small pliers from high-grade steel, designed for precision works in electronic engineering, watchmaking, modelling, micromechanics etc.

Code	Type	Size (mm)		
28730	combination	120	x	12/144
28731	diagonal side	110	x	12/144
28732	end cutting	110	x	12/144
28733	needle nose	120	x	12/144
28734	snipe nos, bent	120	x	12/144
28735	flat nose	120	x	12/144
28736	round nose	120	x	12/144

1 5 PC. MINI PLIERS SET

• НАБОР 5 ШТ. ПРЕЦИЗИОННЫХ ПЛОСКОГУБЦЕВ • 5 STK. MINI-ZANGENSET



x5 | 120 mm | HRC 50±2

- Polished jaws • Expanding springs
- Handles with flexible lining

Code	Size (mm)		
28745	120	x	6/24

2 CABLE INSULATION SHEARS

• УНИВЕРСАЛЬНЫЕ НОЖНИЦЫ ДЛЯ КАБЕЛЕЙ И ИЗОЛЯЦИИ
• UNIVERSAL KABELSCHNEIDER UND ABISOLIERZANGE





140mm | STAINLESS STEEL | HRC 58±2

- For cutting thin and soft wires, rubber, leather, plastic and thin metal sheet
- Serrated blade

Code	Size (mm)		
28370	140	x	12/72

3 END CUTTING PLIERS

• КУСАЧКИ ТОРЦЕВЫЕ • FRONTSCHNEIDER



CrV

- Forged • Non-slip handle with rubber lining

Code	Size (mm)	
28556	160	6/60

4 RABBIT PINCERS

• КЛЕЩИ ШТУКАТУРНЫЕ • MONIERZANGE



CrV

- Non-slip handle with rubber lining

Code	Size (mm)	
28510	220	10/60
28512	250	10/60

5 PINCERS

• КЛЕЩИ ПЛОТНИЦКИЕ • KNEIFZANGE



CrV

- Forged • Ground head • Non-slip handle with rubber lining

Code	Size (mm)	
28568	200	10/60

6 UNIVERSAL "TURBO" PLIERS

• УНИВЕРСАЛЬНЫЕ ЩИПЦЫ TURBO • KOMBIZANGE TURBO



- Forged • Satin • Ground jaws • Handle with rubber-covered lining

Code	Size (mm)		
28797	190	x	6/72

7 CABLE CUTTER

• НОЖНИЦЫ ДЛЯ РЕЗКИ КАБЕЛЯ • KABELSCHNEIDER



Cu | Al | STAINLESS STEEL | HRC 54±2

Code	Size (mm)	Ø max (mm)		
28360	185	13	x	12/72

8 CABLE CUTTING PLIERS

• НОЖНИЦЫ ДЛЯ РЕЗКИ КАБЕЛЯ • KABELSCHNEIDER



Cu | Al | CrV | HRC 54±2

- Three-layer, non-slip handle

Code	Size (mm)	Ø max (mm)		
28316	160	6	x	6/60
28321	210	7	x	6/60

9 HEAVY DUTY CABLE CUTTER

• УСИЛЕННЫЕ НОЖНИЦЫ ДЛЯ РЕЗКИ КАБЕЛЯ • KABELSCHNEIDER, VERSTÄRKT



Cu | Al | CrV | HRC 54±2

- Three-layer, non-slip handle

Code	Size (mm)	Ø max (mm)		
28334	240	9	x	6/48

1 CABLE CUTTER

• НОЖНИЦЫ РЫЧАЖНЫЕ ДЛЯ РЕЗКИ КАБЕЛЯ (КАБЕЛЕРЕЗ) • KABELSCHNEIDER



Cu | Al | CrV | HRC 54±2

Code	Size (mm)	Max. wire cross-section (mm^2)	
28310	380	125	20
28311	590	250	10
28312	780	500	5

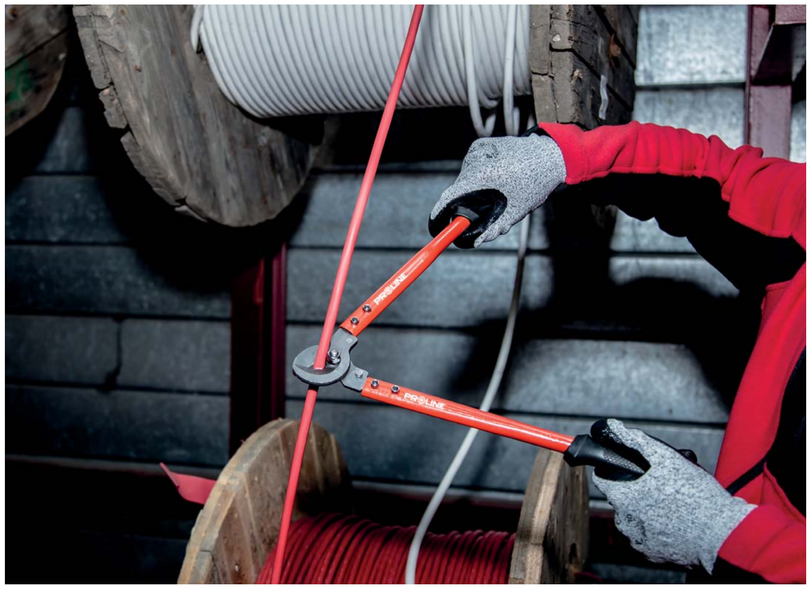
2 RATCHET CABLE CUTTER

• НОЖНИЦЫ СЕКТОРНЫЕ ДЛЯ РЕЗКИ КАБЕЛЯ • KNARREN-KABELSCHNEIDER



Cu | Al | 9CrSi | HRC 54±2

Code	Size (mm)	Max. wire cross-section (mm^2)		
28313	245	300	x	20
28314	310	500	x	20



1 CIRCLIP PLIERS - EXTERNAL STRAIGHT

PROLINE HD

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ НАРУЖНЫЕ - ПРЯМЫЕ
- SICHERUNGSRINGZANGE FÜR AUSSENRINGE - GERADE



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28619	180	x	6/60

5 CIRCLIP PLIERS - EXTERNAL STRAIGHT

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ НАРУЖНЫЕ - ПРЯМЫЕ
- SICHERUNGSRINGZANGE FÜR AUSSENRINGE - GERADE



- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28615	150	x	6/60
28617	175	x	6/60
28610	200	x	6/60

2 CIRCLIP PLIERS - INTERNAL STRAIGHT

PROLINE HD

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ ВНУТРЕННИЕ-ПРЯМЫЕ
- SICHERUNGSRINGZANGE FÜR INNENRINGE - GERADE



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28629	180	x	6/60

6 CIRCLIP PLIERS - INTERNAL STRAIGHT

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ ВНУТРЕННИЕ-ПРЯМЫЕ
- SICHERUNGSRINGZANGE FÜR INNENRINGE - GERADE



- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28625	150	x	6/60
28627	175	x	6/60
28620	200	x	6/60

3 CIRCLIP PLIERS - EXTERNAL BENT

PROLINE HD

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ НАРУЖНЫЕ-ВЫГНУТЫЕ
- SICHERUNGSRINGZANGE FÜR AUSSENRINGE - GEBOGEN



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28639	180	x	6/60

7 CIRCLIP PLIERS - EXTERNAL BENT

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ НАРУЖНЫЕ-ВЫГНУТЫЕ
- SICHERUNGSRINGZANGE FÜR AUSSENRINGE - GEBOGEN



- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28635	150	x	6/60
28637	175	x	6/60
28630	200	x	6/60

4 CIRCLIP PLIERS - INTERNAL BENT

PROLINE HD

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ ВНУТРЕННИЕ-ВЫГНУТЫЕ
- SICHERUNGSRINGZANGE FÜR INNENRINGE - GEBOGEN



- Progressive, oxidized jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28649	180	x	6/60

8 CIRCLIP PLIERS - INTERNAL BENT

- ШИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ ВНУТРЕННИЕ-ВЫГНУТЫЕ
- SICHERUNGSRINGZANGE FÜR INNENRINGE - GEBOGEN



- Nickel-plated jaws
- Expanding spring
- Two-layer, non-slip handle

CrV | HRC 44±2

Code	Size (mm)		
28645	150	x	6/60
28647	175	x	6/60
28640	200	x	6/60

1 AUTOMATIC WIRE STRIPPER

• КЛЕЩИ ДЛЯ УДАЛЕНИЯ ИЗОЛЯЦИИ САМОНАСТРАИВАЮЩИЕСЯ
• AUTOMATIK-ABISOLIERZANGE



0,5-4 mm²

• Cutting blade

Code	Wire cross-section (mm²)		
28404	8-28		10/50

2 CABLE AND WIRE STRIPPER

• СЪЕМНИК ИЗОЛЯЦИИ • ABISOLIERZANGE



8-28 mm²

• Handle with rubber inserts, ensuring improved grip • Spring cover

Code	Wire cross-section (mm²)		
28416	8 - 28	x	10/50

3 CRIMPING PLIERS

• ЩИПЦЫ ДЛЯ ЗАЖИМА НАКОНЕЧНИКОВ
• CRIMPZANGE



20-10 AWG 0.5-6,0 mm² (10N) | 22-10AWG 0.5-6,0 mm² | HRC 67±2

Code	Wire cross-section (mm²)		
28493	0.5 - 6	x	50

4 CRIMPING PLIERS

• ЩИПЦЫ ДЛЯ ОПРЕССОВКИ ТЕЛЕФОННОГО КАБЕЛЯ
• CRIMPZANGE FÜR TELEFONSTECKER



8P | 4P 6P 8P | Sk5 | HRC 63±2

Code	Wire cross-section		
28490	8P	x	8/48

5 CRIMPING PLIERS

• ЩИПЦЫ ДЛЯ ОПРЕССОВКИ ТЕЛЕФОННОГО КАБЕЛЯ
• CRIMPZANGE FÜR TELEFONSTECKER



4P 6P 8P | 4P 6P 8P | Sk5 | HRC 63±2

• Replaceable jaws

Code	Wire cross-section		
28489	4P, 6P, 8P	x	8/48

6 CRIMPING PLIERS

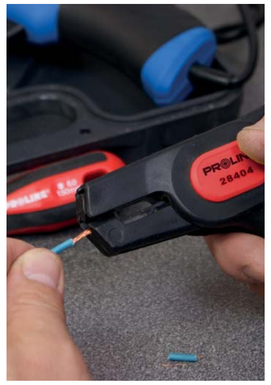
• ЩИПЦЫ ДЛЯ ОПРЕССОВКИ ЭЛЕКТРИЧЕСКИХ КОНТАКТОВ
• CRIMPZANGE FÜR ISOLIERTE KABELSCHUHE



22-10AWG 0.5-6,0 mm² | HRC 45±2

• For end crimping 22-10 AWG • Rattle lever guarantees easy and repeatable end crimping

Code	Wire cross-section (mm²)		
28492	0.5 - 6	x	6/36



7 CRIMPING PLIERS

• ЩИПЦЫ ДЛЯ СНЯТИЯ ИЗОЛЯЦИИ И ОПРЕССОВКИ ТЕЛЕКОММУНИКАЦИОННОГО КАБЕЛЯ
• ABISOLIER- UND CRIMPZANGE FÜR STECKVERBINDER



22-10 AWG 0,2-6 mm² | HRC 55±2

• For removing wire insulation cross-section 0.2-6 mm² • Jaws for end crimping 22-10 AWG, 7-8mm

Code	Wire cross-section (mm²)		
28412	0.2 - 6	x	6/36

8 AUTOMATIC WIRE STRIPPER

• КЛЕЩИ ДЛЯ УДАЛЕНИЯ ИЗОЛЯЦИИ САМОНАСТРАИВАЮЩИЕСЯ
• AUTOMATIK-ABISOLIERZANGE



0,5-6 mm² | 175 mm

• Adjustable force value of the cutting valve
• Adjustable insulation cutting depth

Code	Wire cross-section (mm²)		
28408	0.5 - 6	x	6/60

1 ADJUSTABLE SPANNERS

• РОЛИКОВЫЕ ТОРЦЕВЫЕ РАЗВОДНЫЕ КЛЮЧИ • VERSTELLSCHLÜSSEL

PROLINE HD







CrV 6140

- Forged, quenched
- Work range greater than the work range of standard spanners
- Special jaw structure ensuring reliable grip and adjustment to the nut shape
- Accurate worm wheel mechanism
- TPR handle covered with material resistant to grease and oil

Code	Size (mm)	Range (mm)		
29326	150	0 - 24	x	6/120
29328	200	0 - 29	x	6/60
29330	250	0 - 33	x	6/48
29332	300	0 - 38	x	6/24

2 ADJUSTABLE SPANNERS

• РОЛИКОВЫЕ ТОРЦЕВЫЕ РАЗВОДНЫЕ КЛЮЧИ • VERSTELLSCHLÜSSEL



CrV

- Forged, quenched • Accurate worm wheel mechanism
- Metric scale • Nut sockets: two hexagonal and one ring one
- Two-composite, non-slip TPR handle

Code	Size (mm)	Range (mm)		
29319	150	0 - 25	x	6/48
29320	200	0 - 30	x	6/36
29321	250	0 - 35	x	6/24
29322	300	0 - 40	x	6/24

3 ADJUSTABLE SPANNERS

• РОЛИКОВЫЕ ТОРЦЕВЫЕ РАЗВОДНЫЕ КЛЮЧИ • VERSTELLSCHLÜSSEL



- Forged • Satin • Metric scale • Ground jaws • Handle with rubber-covered lining

Code	Size (mm)	Range (mm)	
29306	150	0 - 19	6/120
29308	200	0 - 24	6/72
29310	250	0 - 28	6/48
29312	300	0 - 34	6/24
29315	375	0 - 43	6/12
29318	450	0 - 52	4/8
29324	600	0 - 62	1/4

4 LOCKING PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A • GRIPZANGE

PROLINE HD



CrMo HRC 42±2

- Rounded, quenched jaws • Screw controlling jaw opening • Release lever
- Non-slip, two-colour handle

Code	Size (mm)		
28217	180	x	6/36
28227	240	x	6/36

5 LOCKING PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A • GRIPZANGE

PROLINE HD



CrMo HRC 42±2

- Elongated, quenched jaws • Screw controlling jaw opening
- Release lever • Non-slip, two-colour handle

Code	Size (mm)		
28220	220	x	6/36

1 LOCKING PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A
• GRIPZANGE



CrMo HRC 42±2

• Elongated, quenched jaws • Screw controlling jaw opening • Release lever

Code	Size (mm)		
28222	225	x	6/36

2 LOCKING PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A • GRIPZANGE



CrMo HRC 55±2

• Rounded, quenched jaws • Screw controlling jaw opening • Release lever

Code	Size (mm)		
28214	180	x	6/36

3 LOCKING PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A
• GRIPZANGE



CrV

• Rounded, machined locking jaws
• Screw controlling jaw opening
• Chromium-plated

Code	Size (mm)		
28215	250	x	6/60

4 LOCKING PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A
• GRIPZANGE



CrMo HRC 42±2

• Flat, quenched jaws
• Screw controlling jaw opening
• Release lever

Code	Size (mm)		
28240	180	x	6/36
28245	250	x	6/36

5 LOCKING PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A • GRIPZANGE



• Rounded, machined locking jaws
• Screw controlling jaw opening
• Release lever • Blackened

Code	Size (mm)		
28219	180	x	6/60
28226	250	x	6/24

6 WATERPUMP PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ
• ROHRZANGE



∅ max. 2" 200mm CrV DIN 5743

• Polished

Code	Size (mm)	Pipes diameter	
28581	250	2"	6/60

7 WATERPUMP PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ • ROHRZANGE



∅ max. 1½" 200mm CrV

• Blackened

Code	Size (mm)	Pipes diameter	
28580	250	1 ½"	10/50

8 PROFILE FORMING PLIERS

• ЩИПЦЫ ДЛЯ ФОРМОВКИ ПРОФИЛЕЙ - ПРЯМЫЕ
• PROFILZANGE - GERADE



210 mm

• Designed for manual section forming
• Flat jaws, knurled inside

Code	Jaw dimensions (mm)		
28381	80 x 35	x	2/12
28382	150 x 35	x	2/12

9 PROFILE FORMING PLIERS - BENT

• ЩИПЦЫ ДЛЯ ФОРМИРОВАНИЯ ПРОФИЛЕЙ - ВЫГНУТЫЕ
• PROFILZANGE - GEBOGEN



205 mm

• Designed for manual section forming
• Flat jaws, knurled inside

Code	Jaw dimensions (mm)		
28380	80 x 35	x	2/12

10 PROFILE CONNECTION PLIERS

• ЩИПЦЫ ДЛЯ СОЕДИНЕНИЯ ПРОФИЛЕЙ
• PROFIL-VERBINDUNGSZANGE



GR15 Al-Ti A380 max 2x0,8mm HRC 57±2

• For joining steel sections with the thickness up to 0.8 mm • Helpful when joining sections for gypsumboard • Punch and matrix made from GR15 steel • Head made from Al-Ti A380 alloy

Code	Size (mm)		
28390	275	x	6/24

1 WATERPUMP PLIERS

• ТРУБНЫЕ КЛЕЩИ • ROHRZANGE



• Forged

Code	Size (mm)	Pipes diameter	
29720	320	1"	24
29721	420	1 ½"	12
29722	550	2"	6

2 WATERPUMP PLIERS

• ТРУБНЫЕ КЛЕЩИ • ROHRZANGE



• Forged

Code	Size (mm)	Pipes diameter	
29710	320	1"	24
29711	420	1 ½"	12
29712	550	2"	6

3 WATERPUMP PLIERS

• ТРУБНЫЕ КЛЕЩИ • ROHRZANGE



• Forged

Code	Size (mm)	Pipes diameter	
29701	320	1"	24
29705	420	1 ½"	12
29706	550	2"	6

4 STILLSON WRENCHES

• КЛЮЧИ РАЗВОДНЫЕ ТИПА STILLSON • STILLSON-ROHRZANGEN



• Forged • Increased wrench cross-section, offering very high durability
• Handle covered with non-slip rubber-coated material

Code	Size (cal/mm)	Pipes diameter	
29008	8"/200	1"	6/48
29010	10"/250	1 ½"	6/24
29012	12"/300	2"	6/18
29014	14"/350	2"	6/12
29018	18"/450	2 ½"	2/8
29024	24"/600	3"	2/4
29036	36"/900	3½"	2

5 PIPE BENDER

• ТРУБОГИБ
• ROHRBIEGER



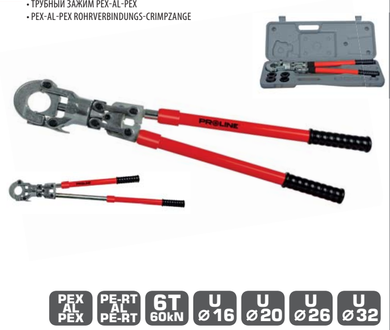
AL Cu 180°

• Bender for copper, aluminum pipes, bending range 180°

Code	Diameter (mm)	BOX	
67215	6/8/10	x	20

6 PEX-AL-PEX PIPE CONNECTION CRIMPING TOOL

• ТРУБНЫЙ ЗАЖИМ PEX-AL-PEX
• PEX-AL-PEX ROHRVERBINDUNGS-CRIMPZANGE



PEX AL PEX | PE-RT AL PE-RT | 6T 60kN | U ø16 | U ø20 | U ø26 | U ø32

• Crimping tool for PEX-AL-PEX connections, 4 dies included • 360° swivel head • Dies available for purchase separately (PROLINE 67241-16 mm, 16242-20 mm, 16243-26 mm, 16244-32 mm)

Code	Diameter (mm)	BOX	
67240	16/20/26/32	x	2

7 ADDITIONAL FORM FOR THE PEX-AL-PEX CRIMPING TOOL

• ЗАПАСНАЯ МАТРИЦА ДЛЯ ЗАЖИМА PEX-AL-PEX • ZUSÄTZLICHE FORM FÜR DIE PEX-AL-PEX CRIMPZANGE



• For the 67240 crimping tool

Code	Diameter (mm)	
67241	16	25/100
67242	20	25/100
67243	26	25/100
67244	32	25/100

1 STEP WRENCH WITH RATCHET

• СТУПЕНЧАТЫЙ КЛЮЧ ДЛЯ РЕЗЬБОВЫХ СОЕДИНЕНИЙ С ХРАПОВЫМ МЕХАНИЗМОМ • STUFENSCHLÜSSEL MIT KNARRE



1/2" CrV 36T

• Inside ratchet

Code	Size (mm)		
18187	3/8" (9,6mm), 7/16" (11,6mm), 1/2" (12,5mm), 5/8" (16,4mm), 13/16" (21mm)	x	5/20

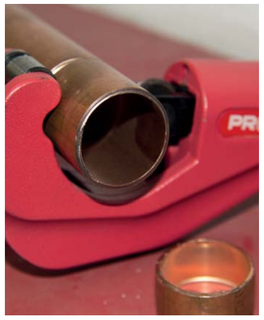
2 STEP WRENCH

• СТУПЕНЧАТЫЙ КЛЮЧ ДЛЯ РЕЗЬБОВЫХ СОЕДИНЕНИЙ • STUFENSCHLÜSSEL



1/2" CrV

Code	Size (mm)		
18188	3/8" (9,6mm), 7/16" (11,6mm), 1/2" (12,5mm), 5/8" (16,4mm), 13/16" (21mm)	x	20/100



3 FLARING TOOL SET

• НАБОР ДЛЯ РУЧНОГО РАСШИРЕНИЯ ТРУБ • SATZ FÜR ERWEITERUNG VON ROHREN



3-19 mm

• For installation works and in automotive sector

Code	Diameter (mm)	
67208	3 - 19	10

4 FLARING TOOL SETS

• НАБОРЫ ДЛЯ РУЧНОГО РАСШИРЕНИЯ ТРУБ • SATZ FÜR ERWEITERUNG VON ROHREN



• For installation works and in automotive sector

Code	Diameter (mm)	BOX	
67209	19 - 25	x	18
67210	22 - 28	x	18

5 PIPE VICES

• ЗАЖИМНЫЕ ТИСКИ ДЛЯ ТРУБ • ROHRSCHRAUBSTÖCKE



• Designed for plumbing works

Code	Ø max (mm)	BOX	
67211	76	x	4
67212	90	x	2

6 TELESCOPIC PIPE CUTTER - QUICK ADJUSTMENT

• ТРУБОРЕЗ БЫСТРОРЕГУЛИРУЕМЫЙ • TELESKOP-ROHRABSCHNEIDER MIT SCHNELLVERSTELLUNG





Cu Al Ø 6-67 mm

• Designed for copper, aluminium and brass pipes • Four steel guide rollers
• Ratchet gear enabling quick adjustment to the pipe diameter • High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17214	6 - 67	x	5/20

7 PIPE CUTTER

• ТРУБОРЕЗ • ROHRABSCHNEIDER





Al Cu Ø 3-30 mm

• For copper and aluminium pipes
• Foldable, steel deburring tool • High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17211	3 - 30	x	10/50

1 TELESCOPIC PIPE CUTTERS

• ТРУБОРЕЗЫ ТЕЛЕСКОПИЧЕСКИЕ
• TELESKOP-ROHRABSCHNEIDER



Al | Cu

- Designed for copper, aluminium and brass pipes • Retractable, steel deburring tool
- High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17212	6 - 35	x	10/50
17213	6 - 42	x	5/50

2 MINI PIPE CUTTER

• ТРУБОРЕЗ МИНИ • MINI-ROHRABSCHNEIDER



Al | Cu | Ø 3-22 mm

- For thin-walled copper and aluminium pipes
- High-quality tempered cutting disc

Code	Pipes diameter (mm)		
17210	3 - 22	x	10/50

3 PIPE CUTTER

• ТРУБОРЕЗ • ROHRSCHNEIDER



AL | Cu

- Designed for copper, aluminium and plastic pipes • Ideal for cutting pipes hard to be reached

Code	Diameter (mm)		
17215	15	x	12/72
17216	22	x	12/72
17217	28	x	6/48

4 PVC PIPE CUTTER

• ТРУБОРЕЗ ДЛЯ ПЛАСТМАССОВЫХ ТРУБ
• ROHRABSCHNEIDER



PP | PVC | PE | Ø max. 42mm | HRC 55±2

- Ratchet gear increasing blade pressure
- Blade made from stainless steel
- Body made from aluminium alloy

Code	Ø max (mm)		
17201	42	x	10/50

5 PIPE CUTTER

• ТРУБОРЕЗ ДЛЯ ПЛАСТМАССОВЫХ ТРУБ
• ROHRABSCHNEIDER FÜR KUNSTSTOFFROHRE



HRC 56±2 | PP | PVC | PE | Ø max. 42mm | CrV

- Ratchet gear facilitating cutting
- Body made from aluminium cast

Code	Ø max (mm)		
17200	42	x	10/30

6 MULTILAYER PIPE SHEARS

• НОЖНИЦЫ ДЛЯ МНОГОСЛОЙНЫХ ТРУБ
• ROHRSCHNEIDER FÜR VERBUNDROHRE



Ø max. 36mm | HRC 55±2

- For multi-layered pipes of PE-X/Al/PE-RT Typee • Blade made from stainless steel
- Body made from aluminium alloy

Code	Ø max (mm)		
17202	36	x	10/50

7 RATCHET PIPE THREADING SETS

• НАБОРЫ ВИНТОНАРЕЗНЫХ ГОЛОВОК
• ROHRGEWINDESCHNEIDER MIT RATSCHE



9Cr2

- Two-way ratchet (16 teeth) • Aluminium ratchet casing • Two-part handle

Code	Quantity (pcs)	Heads		
67206	6	1/2", 3/4", 1", 1¼"	x	4
67207	7	3/8", 1/2", 3/4", 1", 1¼"	x	4

8 DEBURRER

• ГРАТОСНИМАТЕЛЬ • ROHRABSCHNEIDER



AL | HSS M2

Code	Blade diameter (mm)		
67201	3,2	x	50/150

9 BLADES FOR DEBURRER

• ЛЕЗВИЯ ДЛЯ ГРАТОСНИМАТЕЛЯ • ENTGRATER-KLINGEN



x5 | HSS M2

- Universal size fits deburrer Proline 67201

Code	Diameter (mm)		
67202	3,2	x	12/144



PNEUMATIC TOOLS AND ACCESSORIES

filters
guns:
• blowing
• for pumping
• painting
• washing
impact wrenches
oilers
pneumatic hoses
reducers
quick-release nozzles

PNEUMATIC TOOLS AND ACCESSORIES

Pneumatic tools are a great alternative to their electric counterparts, but they are also much more effective: **they offer more power and weigh less.**



How to choose a spray painting gun?

The basic division of spray guns on a functional level includes the following:



An HP (high-pressure) spray painting gun – the oldest available pressure painting technology. A small amount of paint is ejected under high pressure through a small opening, forming what is called a pattern. HP guns cause significant paint spraying, which causes a significant amount of the paint to be used.



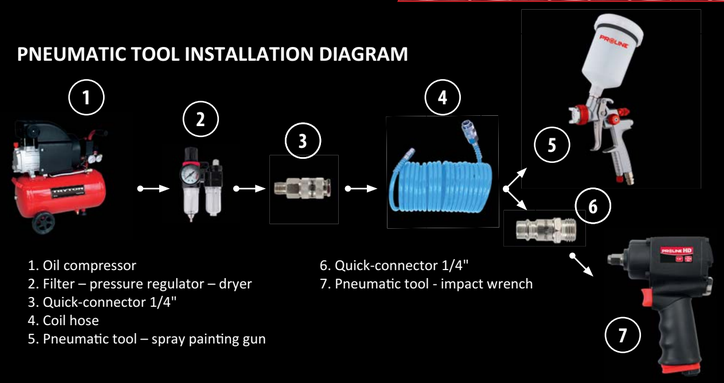
HVLP (low pressure) spray paint gun – has more openings in the nozzle than an HP gun, which means the pressure is lower, but the amount of paint sprayed increases. An HVLP gun has the advantage in that it uses less paint, but such a gun requires a stronger compressor. An LVLP spray painting gun (low pressure with low material consumption) – A type of gun that combines the advantages of HP and HVLP guns, i.e. it works at a low pressure, with low compressed air consumption, guaranteeing low paint loss.



An LVLP spray painting gun is the most modern tool for painting. The gun needs to be selected, so that it allows efficient work with the compressor-tank combination you have. A high-pressure gun can be used with smaller tanks combined with efficient compressors, while an HVLP gun requires a very large tank, first and foremost.

The gun needs to be selected, so that it allows efficient working with the compressor-tank combination you have. Smaller tanks combined with powerful compressors allow the use of a high-pressure gun, while an HVLP gun requires a very capacious tank, above all.

PNEUMATIC TOOL INSTALLATION DIAGRAM



1. Oil compressor
2. Filter – pressure regulator – dryer
3. Quick-connector 1/4"
4. Coil hose
5. Pneumatic tool – spray painting gun
6. Quick-connector 1/4"
7. Pneumatic tool - impact wrench

ПНЕВМАТИЧЕСКИЕ ИНСТРУМЕНТЫ И ПРИНАДЛЕЖНОСТИ

Пневматические инструменты являются не только отличной альтернативой электрическим аналогам, но также намного эффективнее: они более мощные и весят меньше.



Как выбрать пистолет-краскораспылитель?

По функциональному уровню основной ассортимент краскораспылителей включает:



Пистолет-краскораспылитель высокого давления (HP) - наиболее старая из доступных технологий для покраски под давлением. Небольшое количество краски выбрасывается под высоким давлением через небольшое отверстие, образуя "узор". В пистолетах высокого давления используется сильное распыление, что приводит к высокому расходу краски.



Пистолет-краскораспылитель низкого давления (HVLP) имеет большее количество отверстий в форсунке, чем в пистолете HP, что означает, что давление ниже, но количество распыляемой краски увеличивается. Преимущество пистолета HVLP состоит в том, что он использует меньше краски, но для такого пистолета требуется более мощный компрессор. Пистолет-краскораспылитель низкого давления с низким расходом материала (LVLP) - это пистолет, в котором сочетаются преимущества пистолетов HP и HVLP, т.е. он работает при низком давлении, с низким расходом сжатого воздуха, гарантируя малые небольшие краски.



Пистолет-краскораспылитель LVLP - наиболее современный инструмент для покраски. Пистолет выбирают таким образом, чтобы он позволял эффективно работать с имеющейся комбинацией компрессор-бак. Пистолет высокого давления может использоваться с небольшими резервуарами в сочетании с мощными компрессорами, в то время как для пистолета HVLP прежде всего требуется очень большой бак.

Пистолет выбирают таким образом, чтобы он позволял эффективно работать с имеющейся комбинацией компрессор-бак. Пистолет высокого давления может использоваться с небольшими резервуарами в сочетании с мощными компрессорами, в то время как для пистолета HVLP прежде всего требуется очень большой бак.

СХЕМА УСТАНОВКИ ПНЕВМАТИЧЕСКОГО ИНСТРУМЕНТА



1. Масляный компрессор
2. Фильтр - регулятор давления - осушитель
3. Быстроразъемное соединение 1/4 "
4. Спиральный шланг
5. Пневматический инструмент - пистолет-краскораспылитель
6. Быстроразъемное соединение 1/4 "
7. Пневматический инструмент - гайковерт ударный

PNEUMATISCHE WERKZEUGE UND ZUBEHÖR

Pneumatische Werkzeuge stellen eine hervorragende alternative zu ihren elektrischen Gegenstücken dar, aber Sie sind auch viel effizienter als diese: sie bieten mehr Leistung und weniger Gewicht.



Wie wählt man eine Lackierpistole aus?

Die grundlegende Aufteilung der Lackierpistolen auf funktionaler Ebene umfasst Folgendes:



Eine HP (Hochdruck) Lackierpistole – die älteste verfügbare Technologie des Drucklackierens. Eine kleine Farbmenge wird unter hohem Druck durch eine kleine Öffnung ausgestoßen, wodurch ein sogenanntes Muster entsteht. Hochdruckpistolen verursachen ein erhebliches Sprühen der Farbe, was dazu führt, dass eine erhebliche Menge der Farbe verwendet wird.



Eine HVLP (reduzierter Druck) Lackierpistole – verfügt über mehr Öffnungen in der Düse als eine HP-Lackierpistole, was einen reduzierten Druck zur Folge hat, aber die versprühte Farbmenge wird gesteigert. Eine HVLP-Lackierpistole hat den Vorteil, dass sie weniger Farbe verwendet, aber sie benötigt einen stärkeren Kompressor. Eine LVLP-Lackierpistole (niedrigerer Druck und niedrigerer Materialverbrauch) – diese Art der Lackierpistolen kombiniert die zwei Vorteile der HP- und HVLP-Lackierpistolen, d. h. sie wird mit einem reduzierten Druck betrieben, mit einem niedrigen Druckluftverbrauch und sie generiert niedrige Farbverluste.



Die LVLP-Lackierpistole ist das modernste Werkzeug für Lackierarbeiten. Die Lackierpistole muss so ausgewählt werden, dass sie zusammen mit dem Kompressor und Tank eine effizient Arbeit ermöglicht. Eine Hochdruckpistole kann zusammen mit mit kleineren Tanks und effizienteren Kompressoren verwendet werden, während eine HVLP-Lackierpistole vor allem einen sehr großen Tank benötigt.

Die Lackierpistole muss so ausgewählt werden, dass sie zusammen mit dem Kompressor und Tank eine möglichst effiziente Arbeit sicherstellt. Kleinere Tanks ermöglichen zusammen mit einem effizienten Kompressor die Verwendung einer Hochdruckpistole, während eine Pistole des Typs HVLP einen sehr großen Tank erfordert.

INSTALLATIONSDIAGRAMM FÜR PNEUMATISCHE WERKZEUGE



1. Ölkompressor
2. Filter – Druckregler – Trockner
3. Schnellkupplung 1/4"
4. Spiralschlauch
5. Pneumatisches Werkzeug – Lackierpistole
6. Schnellkupplung 1/4"
7. Pneumatisches Werkzeug - Schlagschrauber

1 AIR IMPACT WRENCH

• УДАРНЫЙ КЛЮЧ ПНЕВМАТИЧЕСКИЙ • DRUCKLUFT-SCHLAGSCHRAUBER

PROLINE HD



1/2" | max 678 Nm

n=11000/min | 6,3 bar | 135 l/min | TWIN HAMMER | R/L | 1,42kg LIGHT WEIGHT | 108mm COMPACT SIZE | CE

- Designed for professional use • Compact size and low weight • Impact mechanism with a double hammer clutch • Left / right direction switch
- 3 tightening torque values and 3 loosening ones • Downward air inlet in the handle • Aluminium body, rubber-coated handle • All-purpose quick coupling 1/4"

Code	Square	Max. torque (Nm)	
66471	1/2"	678	10

2 AIR IMPACT WRENCH

• УДАРНЫЙ КЛЮЧ ПНЕВМАТИЧЕСКИЙ • DRUCKLUFT-SCHLAGSCHRAUBER

PROLINE HD



1/2" | max 1356 Nm

n=9000/min | 6,3 bar | 144 l/min | TWIN HAMMER | R/L | 1,80kg LIGHT WEIGHT | 141mm COMPACT SIZE | CE

- Designed for professional use • Very high torque with a small-size spanner • Impact mechanism with a double hammer clutch • Rotation change-over switch (leftwards / rightwards) • 3 tightening torque values and 3 loosening ones • Downward air inlet in the handle
- Aluminium body, rubber-coated handle

Code	Square	Max. torque (Nm)	
66472	1/2"	1356	10



PROLINE

PROLINE
LAHTI PRO
MAGNA
JAGO
DYNEMA BRANDS
EXTOL
KLEMSPORN
EXPANDER
ACTION CAN
TIRTON
VULCAN

1 AIR IMPACT WRENCH

• УДАРНЫЙ КЛЮЧ ПНЕВМАТИЧЕСКИЙ • DRUCKLUFT-SCHLAGSCHRAUBER



1/2" | max 610 Nm | 6,2 bar | 169 l/min | TWIN HAMMER | R/L | 1,50kg LIGHT WEIGHT | 125mm COMPACT SIZE | CE

- Compact size and low weight • All–purpose quick coupling 1/4"
- Aluminium body, rubber–coated handle • Downward air inlet in the handle • 3 tightening torque values and 3 loosening ones • Left / right direction switch • Impact mechanism with a double hammer clutch

Code	Square	Max. torque (Nm)	
66370	1/2"	610	10

3 AIR IMPACT WRENCH

• УДАРНЫЙ КЛЮЧ ПНЕВМАТИЧЕСКИЙ • DRUCKLUFT-SCHLAGSCHRAUBER



1/2" | max 1145 Nm | 6,2 bar | 198 l/min | TWIN HAMMER | R/L | CE

- Impact mechanism with a double hammer clutch • All–purpose quick coupling 1/4" • Composite body, rubber–coated handle • Downward air inlet in the handle • 3 tightening torque values and 1 loosening ones
- Left / right direction switch

Code	Square	Max. torque (Nm)	
66372	1/2"	1145	10

2 AIR IMPACT WRENCH

• УДАРНЫЙ КЛЮЧ ПНЕВМАТИЧЕСКИЙ • DRUCKLUFT-SCHLAGSCHRAUBER



1/2" | max 810 Nm | 6,3 bar | 133 l/min | TWIN HAMMER | R/L | CE

- Designed for basic workshop works • Impact mechanism with a double hammer clutch • Rotation change–over switch (leftwards / rightwards)
- 3 tightening torque values and 1 loosening ones • Downward air inlet in the handle • Composite body, rubber–coated handle • All–purpose quick coupling 1/4"

Code	Square	Max. torque (Nm)	
66371	1/2"	810	10

4 INFLATING GUN

• ПИСТОЛЕТ ДЛЯ НАКАЧКИ КОЛЕС • AUFBLASPISTOLE



max 8 BAR | 440 cm | AL | 1/4" | CE

- Designed for professional use • Manometer with a diameter of 80 mm

Code	Max. air pressure (bar)		
66349	8	x	10/20

1 AIR KIT
• ПНЕВМОКОМПЛЕКТ • LUFTKIT



x5

• Includes:
Gravity feed paint gun (66345)
Inflating gun (66346)
Washing gun (66347)
Blowgun (66348)
PU recoil air hose (66350)

Code	Quantity of items		
66343	5	x	5/10

3 WASHING GUN
• МОЕЧНЫЙ ПИСТОЛЕТ • WASCHPISTOLE



max 8 BAR | 0,9l | AL | 1/4"

Code	Max. air pressure (bar)		
66347	8	x	10/20

2 INFLATING GUN
• ПИСТОЛЕТ ДЛЯ НАКАЧКИ КОЛЕС • AUFBLASPISTOLE



max 8 BAR | 440 mm | AL | 1/4"

• Manometer with a diameter of 60 mm

Code	Max. air pressure (bar)		
66346	8	x	10/40

4 AIR BLOW GUN
• ПРОДУВОЧНЫЙ ПИСТОЛЕТ • DRUCKLUFT-BLASPISTOLE



max 8 BAR | AL | 1/4"

• Additional 215 mm nozzle

Code	Max. air pressure (bar)		
66348	8	x	20/40

1 SUCTION SPRAY GUN

• КРАСКОРАСПЫЛИТЕЛЬНЫЙ ПИСТОЛЕТ С НИЖНИМ БАЧКОМ • SAUGSPRITZPISTOLE



HP | max 4 BAR | ⌀ 1,5mm | 0,85l | AL | 1/4" | CE

Code	Max. air pressure (bar)		
66344	4	x	5/10

2 GRAVITY SPRAY GUN

• КРАСКОРАСПЫЛИТЕЛЬНЫЙ ПИСТОЛЕТ С ВЕРХНИМ БАЧКОМ • SCHWERKRAFTSPRITZPISTOLE



HP | max 4 BAR | ⌀ 1,5mm | 0,6l | AL | 1/4" | CE

Code	Max. air pressure (bar)		
66345	4	x	5/10

3 GRAVITY SPRAY GUN

• КРАСКОРАСПЫЛИТЕЛЬНЫЙ ПИСТОЛЕТ С ВЕРХНИМ БАЧКОМ • SCHWERKRAFTSPRITZPISTOLE



HVLP | max 4 BAR | ⌀ 1,5mm | 410 l/min | 0,6l | 1/4" | CE

• Low-pressure gun for advanced users

Code	Max. air pressure (bar)	BOX	
66361	4	x	20

4 GRAVITY SPRAY GUN

• КРАСКОРАСПЫЛИТЕЛЬНЫЙ ПИСТОЛЕТ С ВЕРХНИМ БАЧКОМ • SCHWERKRAFTSPRITZPISTOLE



LVMP | max 3 BAR | ⌀ 1,3mm | 250 l/min | 0,6l | 1/4" | CE

• Low-pressure gun with low material consumption for professional use

Code	Max. air pressure (bar)	BOX	
66362	3	x	20

1 SPIRAL AIR HOSE

• ПНЕВМАТИЧЕСКИЙ СПИРАЛЬНЫЙ ШЛАНГ
• SPIRALLUFTSCHLAUCH



max 10 BAR | PU | UNIVERSAL | EURO | CLICK

- Made of polyurethane (PU), which is much more flexible than polyethene (PE)

Code	Diameter (mm)	Length (m)	Kolor	
66350	5 x 8	5		4 / 16
66351	5 x 8	10		4 / 16
66352	5 x 8	15		4 / 16
66353	6.5 x 10	5		4 / 16
66354	6.5 x 10	10		4 / 16
66355	6.5 x 10	15		4 / 16
66356	8 x 12	5		4 / 16
66357	8 x 12	10		4 / 16
66358	8 x 12	15		4 / 16

2 LUBRICATOR

• СМАЗЫВАЮЩЕЕ УСТРОЙСТВО • SCHMIERVORRICHTUNG



max 8 BAR | 1/4”

- Designed for impact wrenches and other pneumatic tools to ensure proper lubrication

Code	Max. air pressure (bar)		
66382	8	x	10/50

3 FILTER - WATER TRAP

• ФИЛЬТР – УДАЛИТЕЛЬ ВЛАГИ • FILTER - WASSERABSCHEIDER



max 12 BAR | 8 cm³ | 1/4”

- Designed for spray guns to ensure clean and dry air

Code	Max. air pressure (bar)		
66381	12	x	10/50

4 REDUCER

• РЕДУКТОР • REDUZIERSTÜCK



max 12 BAR | 1/4”

- Designed for regulating the working pressure supplied to pneumatic tools

Code	Max. air pressure (bar)		
66383	12	x	50

1 REDUCER - FILTER UNITS

• РЕДУКТОР С ФИЛЬТРОМ • REDUZIERSTÜCK - FILTEREINHEITEN



66384



66386

max 9.3 BAR | +60°C -10°C | 1/4”

• Designed for regulating the working pressure, and providing clean and dry air for pneumatic tools

Code	Max. air pressure (bar)	Filter capacity (cm^3)	BOX	
66384	9,3	15	x	50
66386	9,3	60	x	50

2 REDUCER - FILTER - LUBRICATOR UNITS

• РЕДУКТОР С ФИЛЬТРОМ И СМАЗЫВАЮЩИМ УСТРОЙСТВОМ • REDUZIERSTÜCK - FILTER - SCHMIEREINHEITEN



66385



66387

max 9.3 BAR | +60°C -10°C | 1/4”

• Designed for regulating the working pressure, and ensuring clean and dry air, as well as proper lubrication of pneumatic tools

Code	Max. air pressure (bar)	Filter capacity (cm^3)	Lubricator capacity (cm^3)	BOX	
66385	9,3	15	25	x	50
66387	9,3	60	30	x	25



1 AIR QUICK-COUPLERS (FEMALE - EXTERNAL THREAD)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «МАМА» - С ВНЕШНЕЙ РЕЗЬБОЙ)
- LUFTSCHNELLKUPPLUNGEN (WEIBLICH - AUSSENGEWINDE)



UNIVERSAL CLICK

Code	External thread		
66300	1/4"	x	50 / 100
66301	3/8"	x	50 / 100
66302	1/2"	x	50 / 100

2 AIR QUICK-COUPLERS (FEMALE - INTERNAL THREAD)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «МАМА» - С ВНУТРЕННЕЙ РЕЗЬБОЙ)
- LUFTSCHNELLKUPPLUNGEN (WEIBLICH - INNENGEWINDE)





UNIVERSAL CLICK

Code	External thread		
66303	1/4"	x	50/100
66304	3/8"	x	50/100
66305	1/2"	x	50/100

3 AIR QUICK-COUPLERS (FEMALE - FOR AIR HOSE)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «МАМА» - ДЛЯ ШЛАНГА)
- LUFTSCHNELLKUPPLUNGEN (WEIBLICH - FÜR LUFTSCHLAUCH)





UNIVERSAL CLICK

Code	Hose diameter (mm)		
66306	6	x	50 / 100
66307	8	x	50 / 100
66308	10	x	50 / 100
66309	12	x	50 / 100

4 AIR QUICK-COUPLERS (FEMALE - FOR AIR HOSE)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «МАМА» - ДЛЯ ШЛАНГА)
- LUFTSCHNELLKUPPLUNGEN (WEIBLICH - FÜR LUFTSCHLAUCH)





UNIVERSAL CLICK

Code	Hose diameter (mm)		
66320	5 x 8	x	10/60
66321	6.5 x 10	x	10/60
66322	8 x 12	x	10/60

1 AIR QUICK-COUPLERS (MALE - EXTERNAL THREAD)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «ПАПА» - С ВНЕШНЕЙ РЕЗЬБОЙ)
- LUFTSCHNELLKUPPLUNGEN (MÄNNLICH - AUSSENGEWINDE)



Code	External thread		
66310	1/4"	x	50 / 100
66311	3/8"	x	50 / 100
66312	1/2"	x	50 / 100

2 AIR QUICK-COUPLERS (MALE - INTERNAL THREAD)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «ПАПА» - С ВНУТРЕННЕЙ РЕЗЬБОЙ)
- LUFTSCHNELLKUPPLUNGEN (MÄNNLICH - INNENGEWINDE)



Code	External thread		
66313	1/4"	x	50/100
66314	3/8"	x	50/100
66315	1/2"	x	50/100

3 AIR QUICK-COUPLERS (MALE - FOR AIR HOSE)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «ПАПА» - ДЛЯ ШЛАНГА)
- LUFTSCHNELLKUPPLUNGEN (MÄNNLICH - FÜR LUFTSCHLAUCH)



Code	Hose diameter (mm)		
66316	6	x	50 / 100
66317	8	x	50 / 100
66318	10	x	50 / 100
66319	12	x	50 / 100

4 AIR QUICK-COUPLERS (MALE - FOR AIR HOSE)

- ПНЕВМАТИЧЕСКИЙ БЫСТРОРАЗЪЁМНЫЙ ШТУЦЕР (ТИПА «ПАПА» - ДЛЯ ШЛАНГА)
- LUFTSCHNELLKUPPLUNGEN (MÄNNLICH - FÜR LUFTSCHLAUCH)



Code	Hose diameter (mm)		
66330	5 x 8	x	10/60
66331	6.5 x 10	x	10/60
66332	8 x 12	x	10/60

CONSTRUCTION, DECORATING, IRONWORKING TOOLS





- axes
- clamps
- files
- foam and caulking guns
- hammers
- knives
- measuring tools
- painting accessories
- saws
- shovels
- spades
- taps
- trowels
- vices
- and many others

PROLINE

1 QUICK-CHANGE RETRACTABLE TRIMMING KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ТРАПЕЦИЕВИДНЫМ ВЫДВИЖНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT KLAPPBARER TRAPEZKLINGE



62mm | x10 | Sk5 | METAL

• Automatic blade replacement without knife opening • Blade drum

Code	Blade (mm)		
30310	62	x	6/72

2 RETRACTABLE TRIMMING KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ТРАПЕЦИЕВИДНЫМ ВЫДВИЖНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT KLAPPBARER TRAPEZKLINGE



62mm | x4 | Sk5 | METAL

• Fast blade replacement • Metal body • Blade drum

Code	Blade (mm)		
30311	62	x	6/72

3 FIX BLADE TRIMMING KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ТРАПЕЦИЕВИДНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT TRAPEZKLINGE



PH1 | 62mm | x5 | Sk5 | METAL

• Trapezoidal, permanent blade • Metal body with blade lock • Blade drum

Code	Blade (mm)		
30307	62	x	6/72

5 AUTO RETRACTING TRIMMING KNIFE

• УНИВЕРСАЛЬНЫЙ БЕЗОПАСНЫЙ НОЖ С ТРАПЕЦИЕВИДНЫМ ЛЕЗВИЕМ • UNIVERSAL SICHERHEITSMESSER MIT TRAPEZKLINGE



62mm | METAL

• Trapezoidal blade automatically hiding once the button is released • Metal body

Code	Blade (mm)		
30315	62	x	6/72

7 RETRACTABLE TRIMMING KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ТРАПЕЦИЕВИДНЫМ ВЫДВИЖНЫМ ЛЕЗВИЕМ • UNIVERSALMESSER MIT KLAPPBARER TRAPEZ-KLINGE



62mm | x5 | METAL

• Metal body with non-slip, soft, rubber inserts
• Drum for spare blades with a snap

Code	Blade (mm)		
30301	62	x	12/96

4 RETRACTABLE TRIMMING KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ТРАПЕЦИЕВИДНЫМ ВЫДВИЖНЫМ ЛЕЗВИЕМ • UNIVERSALMESSER MIT KLAPPBARER TRAPEZKLINGE



62mm | x6 | METAL

• Fast blade replacement • Metal body with non-slip rubber inserts • Drum for spare blades

Code	Blade (mm)		
30300	62	x	12/96

6 RETRACTABLE TRIMMING KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ТРАПЕЦИЕВИДНЫМ ВЫДВИЖНЫМ ЛЕЗВИЕМ • UNIVERSALMESSER MIT KLAPPBARER TRAPEZKLINGE



62mm | METAL

• Metal body with blade lock

Code	Blade (mm)		
30305	62	x	12/96

8 RETRACTABLE KNIVES

• УНИВЕРСАЛЬНЫЙ НОЖ С СЕГМЕНТИРОВАННЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT ABBRECHKLINGE



METAL

• Retractable, broken blade • Metal body with blade lock

Code	Blade (mm)		
30028	18	x	12/96
30029	9	x	12/288

9 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С СЕГМЕНТНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT ABBRECHKLINGE



METAL

• Retractable, broken blade • Metal body with blade lock

Code	Blade (mm)		
30078	18	x	12/96

1 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С СЕГМЕНТНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT ABBRECHKLINGE



• Retractable, broken blade • Metal body with blade lock

Code	Blade (mm)		
30079	9	x	12/144

2 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С СЕГМЕНТНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT ABBRECHKLINGE



• Retractable, broken blade • Plastic body with non-slip rubber insert and precise blade lock
• Automatic loading of the next blade

Code	Blade (mm)		
30033	18	x	12/144

3 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С СЕГМЕНТНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT ABBRECHKLINGE



• Retractable, broken blade • Plastic body with non-slip rubber insert and blade lock

Code	Blade (mm)		
30039	9	x	12/288

4 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С СЕГМЕНТНЫМ ЛЕЗВИЕМ
• UNIVERSALMESSER MIT ABBRECHKLINGE



• Retractable, broken blade • Plastic body with non-slip rubber insert and precise blade lock

Code	Blade (mm)		
30038	18	x	12/144

5 FOLDING TRIMMING KNIFE

• НОЖ СО СКЛАДЫВАЕМЫМ ТРАПЕЦЕИДАЛЬНЫМ ЛЕЗВИЕМ
• UNUNIVERSALMESSER MIT KLAPPBARER TRAPEZKLINGE



• Quick blade replacement • Aluminium body
• „Back-lock" blade lock • Belt hook • Nylon casing with velcro

Code	Blade (mm)		
30030	62	x	12/48

6 FOLDING KNIFE

• НОЖ УНИВЕРСАЛЬНЫЙ СКЛАДНОЙ • UNUNIVERSALKLAPPMESSER



• Stainless steel • Aluminium body • „Liner-lock" • Belt hook • Nylon casing with velcro

Code	Blade (mm)		
30040	80	x	12/48

7 FOLDING KNIFE

• УНИВЕРСАЛЬНЫЙ СКЛАДНОЙ НОЖ • UNIVERSALMESSER



• Stainless steel • Mohogany covers
• Polished handle

Code	Blade (mm)		
30090	80	x	12/96

8 FOLDING KNIVES

• УНИВЕРСАЛЬНЫЕ СКЛАДНЫЕ НОЖИ • UNIVERSALMESSER



• Stainless steel • Polished handle

Code	Blade (mm)		
30092	50	x	10/100
30093	60	x	10/100
30094	70	x	10/100

9 ELECTRICIAN'S KNIVES

• МОНТЁРСКИЕ НОЖ • ELEKTRIKERMESSER



Code	Blade (mm)		
30095	70	x	10/100
30096	65	x	10/100

10 INSULATION KNIFE

• НОЖ ДЛЯ РЕЗКИ СТРОИТЕЛЬНОЙ ИЗОЛЯЦИИ
• ISOLATIONSMESSER



Code	Blade (mm)		
31400	335	x	10/60

11 SCISSORS

• НОЖНИЦЫ • SCHERE



• Two-component ergonomic handle

Code	Length (mm)		
30082	140	x	30/60
30084	220	x	30/60

1 RETRACTABLE KNIFE BLADES

• СЕГМЕНТНЫЕ ЛЕЗВИЯ • AUSWECHSELBARE ABBRECHKLING



x10 Sk5

- 10 blades in a box with a dispenser
- Thickness: 18 mm - 0.5 mm, 9 mm - 0.4 mm

Code	Blade (mm)		
31003	9	-	20/800
31004	9	x	12/576
31005	18	-	10/300
31006	18	x	12/240

2 HOOK UTILITY BLADES

• СЕГМЕНТНЫЕ КРЮЧКОВЫЕ ЛЕЗВИЯ
• USWECHSELBARE ABBRECH-HAKENKLINGE



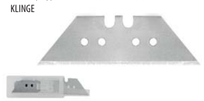
x10 Sk5

- 10 blades in a box

Code	Blade (mm)		
31307	18	x	24/288

3 UTILITY BLADES

• ТРАПЕЦИДАЛЬНЫЕ ЛЕЗВИЯ • AUSWECHSELBARE TRAPEZ-KLINGE



x10 0,6mm 61mm Sk5

- 10 blades in a box with a dispenser

Code	Blade (mm)		
31302	61	-	50/400
31303	61	x	12/288

4 HOOK UTILITY BLADES

• ТРАПЕЦИДАЛЬНЫЕ КРЮЧКОВЫЕ ЛЕЗВИЯ • AUSWECHSELBARE ABBRECH-HAKENKLINGE



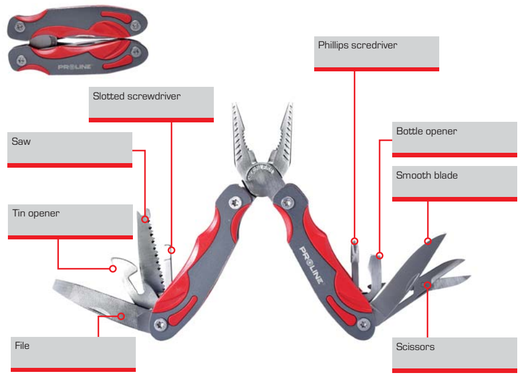
x5 0,6mm 48mm Sk5

- 5 blades in a box with a dispenser

Code	Blade (mm)		
31304	48	-	50/400
31305	48	x	16/288

5 POCKET MULTI-TOOL

• МУЛЬТИТУЛ • MUMULTIFUNKTIONSZANGE



150 mm STAINLESS AL HRC 45±3

- Stainless steel • Aluminium body • The set includes: pliers, smooth blade, saw, file, Phillips screwdriver, slotted screwdriver, bottle opener, tin opener, scissors • Nylon case with velcro

Code	Length (mm)		
30050	150	x	12/48

6 POCKET MULTI-TOOL AND FOLDING KNIFE SET

• НАБОР: МУЛЬТИТУЛ И НОЖ УНИВЕРСАЛЬНЫЙ СКЛАДНОЙ • SESET: MULTIFUNKTIONSZANGE UND UNIVERSALKLAPPMESSER



180 mm 148 mm STAINLESS AL HRC 45±3

- Stainless steel • Aluminium body • The set includes: pliers, flat blade, saw, file,Phillips screwdriver, slotted screwdriver, bottle opener, tin opener, scissors • „Liner-lock" blade lock • Belt hook • Nylon casing with velcro

Code	Blade of the knife (mm)	Length (mm)		
30060	80	148	x	9/36

1 MEASURING TAPES

• PYJETKI • ROLLMASSBÄNDER



II AUTO STOP NYLON CE

• 2nd precision class • CE MID Certificate • Tape cover - nylon (protection against abrasion) • Magnet on a catch • Automatic tape lock when advanced (lock released by button pressing) • Clip for a belt • Casing with rubber-coated overlay

Code	Length (m)	Tape (mm)		
20283	3	16	x	12/120
20285	5	19	x	12/72
20288	8	25	x	6/36

PROLINE

1 TWO-SIDED MEASURING TAPES, WHITE TAPE

• РУЛЕТКИ ДВУХСТОРОННИЕ, ЛЕНТА БЕЛОГО ЦВЕТА
• ZWEISEITIGE MESSBÄNDER, WEISSES BAND



II | AUTO STOP | NYLON | CE

- 2nd precision class • CE MID Certificate
- Tape cover - nylon (protection against abrasion) • Magnet on a catch • Automatic tape lock when advanced (lock released by button pressing) • Clip for a belt • Casing with rubber-coated overlay • double-sided print to enable vertical and horizontal reading • White tape

Code	Length (m)	Tape (mm)		
20363	3	16	x	12/120
20365	5	19	x	12/72
20368	8	25	x	6/36

2 MEASURING TAPES

• РУЛЕТКИ • ROLLMASSBÄNDER



II | AUTO STOP | NYLON | CE

- 2nd precision class • CE MID Certificate
- Tape cover - nylon (protection against abrasion) • Automatic tape lock when advanced (lock released by button pressing) • Clip for a belt • Casing with rubber-coated overlay

Code	Length (m)	Tape (mm)		
20293	3	16	x	12/120
20295	5	19	x	12/96
20298	8	25	x	6/48

3 MEASURING TAPES

• РУЛЕТКИ • ROLLMASSBÄNDER



II | AUTO STOP | NYLON | CE

- 2nd precision class • CE MID Certificate
- Tape cover - nylon (protection against abrasion) • Automatic tape lock when advanced (lock released by button pressing)
- Clip for a belt • Ergonomic shape

Code	Length (m)	Tape (mm)		
20123	3	16	x	12/120
20125	5	19	x	12/96
20128	8	25	x	6/48

4 MEASURING TAPES

• РУЛЕТКИ С МАГНИТНЫМ ЗАХВАТОМ • ROLLMASSBÄNDER



II | NYLON

- 2nd precision class • Magnetic catch • 3 additional non-step brakes, including one from below • Casing from non-slip material • Clip for a belt • Tape covered with nylon protecting against abrasion

Code	Length (m)	Tape (mm)		
20132	2	16	–	12/120
20133	3	16	–	12/120
20135	5	19	–	12/96
20137	7.5	25	–	6/60
20132K	2	16	x	12/120
20133K	3	16	x	12/120
20135K	5	19	x	12/96
20137K	7.5	25	x	6/48

5 MEASURING TAPES

• РУЛЕТКИ • ROLLMASSBÄNDER



II | AUTO STOP

- 2nd precision class • Tape self-lock when advancing • Lock released by pressing a button • Ergonomic, two-component casing from non-slip material

Code	Length (m)	Tape (mm)		
20142	2	16	–	12/120
20143	3	16	–	12/120
20145	5	19	–	12/96
20147	7.5	25	–	6/48
20142K	2	16	x	12/120
20143K	3	16	x	12/120
20145K	5	19	x	12/96
20147K	7.5	25	x	6/48

6 STEEL MEASURING TAPES

• ДЛИННЫЕ СТАЛЬНЫЕ РУЛЕТКИ • MASSBÄNDER LANG AUS STAHL



13 mm | 3:1 | II | NYLON

- 2nd precision class • Steel tape covered with nylon to increase its lifecycle • Fast winding mechanism • Two-component casing from non-slip material

Code	Length (m)		
20351	10	x	50
20352	20	x	30
20353	30	x	30

7 FIBREGLASS MEASURING TAPES

• ДЛИННЫЕ РУЛЕТКИ ИЗ СТЕКЛОВОЛОКНА • MASSBÄNDER LANG AUS GLASFASER



- Fibre glass tape
- Delivered in cardboard box

Code	Length (m)		
20323	30	x	24
20325	50	x	24
20329	100	x	12

8 FIBREGLASS MEASURING TAPES

• ДЛИННЫЕ РУЛЕТКИ ИЗ СТЕКЛОВОЛОКНА
• MASSBÄNDER LANG AUS GLASFASER



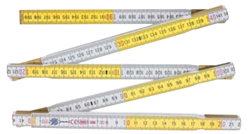
- Tape made from reinforced fibre glass
- Tensile strength up to 200 kg

Code	Length (m)		
20301	10	x	50
20302	20	x	50
20303	30	x	40
20305	50	x	24

1 HARDWOOD FOLDING RULES - HIDDEN RIVETS

• ДЕРЕВЯННЫЕ СКЛАДНЫЕ ЛИНЕЙКИ - СКРЫТЫЕ ЗАКЛЁПКИ
• HOLZ-ZOLLSTOCK - VERSTECKTE NIETEN





- 3rd precision class (EU certificate) • Beech wood 3 mm thickness • Concealed rivets
- Rivet-free union ensures easy readout
- Lasting, resilient unions made from steel and brass • Multi-layer varnish coating, resistant to UV, abrasion and peels • FSC certificate

Code	Length (m)	Type		
13012	1	5-piece	x	20/200
13013	2	10-piece	x	10/100

2 HARDWOOD FOLDING RULES

• ДЕРЕВЯННЫЕ СКЛАДНЫЕ ЛИНЕЙКИ
• HOLZ-ZOLLSTOCK - VERSTECKTE NIETEN





- 3rd precision class (EU certificate)
- High quality • Beech wood 3 mm thickness

Code	Length (m)	Type		
13010	1	5-piece	x	20/200
13011	2	10-piece	x	10/100

3 COMBINATION SQUARE

• УНИВЕРСАЛЬНЫЙ УГОЛЬНИК • UNIVERSALWINKEL



300mm · 45° · 90° · 90° · 0° · 0° · Al

- Steel base with a level, stylus and adjustment bolt • Aluminium measure with two-side scale on both edges

Code	Size (mm)		
21230	300	x	12/72

4 TRY SQUARES

• АЛЮМИНИЕВЫЕ УГОЛЬНИКИ • WINKEL



Al

- Rigid • Metric and inch scale, two-side

Code	Size (mm)		
21330	300 x 175	x	12/48
21335	350 x 190	x	12/48
21350	500 x 235	x	12/36

5 UNIVERSAL RULER

• УНИВЕРСАЛЬНАЯ ЛИНЕЙКА С ПЕРЕДВИЖНЫМИ ИНДИКАТОРАМИ • UNIVERSALLINEAL



Al

- Aluminium ruler with two sliding level vials: horizontal and vertical • Offers easy fixing of objects, centering, copying distance etc.
- Additionally, openings Ø 4-12 mm and a box for screws etc.

Code	Length (mm)	
15166	600	20

6 CALIPER

• ШТАНГЕНЦИРКУЛЬ • MESSSCHIEBER



+/- 0,05 mm · SCALE/ SKALA mm/ inch

- Stainless steel

Code	Range (mm)	
20515	0-150	6/24

7 DIGITAL CALIPER

• ЭЛЕКТРОННЫЙ ШТАНГЕНЦИРКУЛЬ
• DIGITALMESSSCHIEBER



+/- 0,03 mm · SCALE/ SKALA mm/ inch · LR44 1.5V BATTERY

- Stainless steel

Code	Range (mm)	
20516	0-150	6/24

8 MICROMETER

• МИКРОМЕТР
• MIKROMETER



+/- 0,01 mm

- Sintered carbide anvil

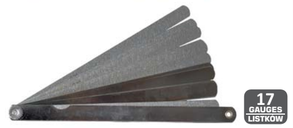
Code	Range (mm)	
20518	0-25	6/24

1 FEELERS
• ЩУПЫ • FÜHLER



21210

TAPER
ZBIEŻNY



21220

PARALLEL
RÓWNOLEGŁY

17
GAUGES
LISTKÓW

• Stainless steel

Code	Length (mm)	Width (mm)	Range (mm)		
21210	100	10	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	x	10/200
21220	200	10	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	x	10/200

2 SPIRIT LEVELS - TWO AIR BUBBLES
• СПИРТОВЫЕ УРОВНИ - 2 ГЛАЗКА • WASSERWAAGEN – 2 LIBELLEN



AL

• Accuracy 1 mm / 1 m • Aluminium box body
• 2 level vials: horizontal and vertical • 5-year guarantee for the level vials

Code	Length (mm)	
15804	400	5
15806	600	5
15808	800	5
15810	1000	5
15812	1200	5
15815	1500	5
15820	2000	5

3 SPIRIT LEVELS - 2 AIR BUBBLES
• УРОВНИ АЛЮМИНИЕВЫЕ - 2 ГЛАЗКА • WASSERWAAGE – 2 LIBELLEN

PROLINE HD



AL | 0° 90° | 0,5mm/m | UV

Code	Length (mm)	
15922	400	10/60
15923	600	10/60
15924	800	10/40
15925	1000	10/40
15926	1200	10/20
15927	1500	10
15929	1800	10
15928	2000	10

• Measurement accuracy 0.5 mm/1 m
• High-quality aluminium body, powder coated
• Milled measuring edge - sizes 40, 60, 80, 100, 120, 150, 180, 200 cm
• Two high quality level vials with lifelong guarantee
• Holder to hang the level

4 ALUMINIUM LEVELS - 3 AIR BUBBLES
• УРОВНИ АЛЮМИНИЕВЫЕ - 3 ГЛАЗКА • WASSERWAAGEN – 3 LIBELLEN

PROLINE HD



AL | 0° 45° 90° | 0,5mm/m | UV

Code	Length (mm)	
15932	400	10/60
15933	600	10/60
15934	800	10/40
15935	1000	10/40
15936	1200	10/20
15937	1500	10
15938	2000	10
15939	1800	10

• Measurement accuracy 0.5 mm/1 m • Three high quality level vials with lifelong guarantee • High-quality aluminium body, powder coated
• Milled from 40 to 120 cm • Holder to hang the level

1 SPIRIT LEVELS - 2 AIR BUBBLES

• СПИРТОВЫЕ АЛЮМИНИЕВЫЕ УРОВНИ - 2 ГЛАЗКА • WASSERWAAGE – 2 LIBELLEN



AL

- Accuracy 0.029°=0.5 mm/m • Aluminium box body • 2 level vials - horizontal and vertical indicator • Shockresistant, glued indicators
- Two magnets • Profile made from anodized aluminium offers resistance to corrosion

Code	Length (mm)	
15821	400	5
15822	600	5
15823	800	5
15824	1000	5
15825	1200	5
15826	1500	5
15827	2000	5

2 SPIRIT LEVELS - 2 AIR BUBBLES

• СПИРТОВЫЕ УРОВНИ - 2 ГЛАЗКА • WASSERWAAGEN – 2 LIBELLEN



AL

- Accuracy 1 mm / 1 m • Aluminium box body • Wall thickness at least 1.5 mm • 2 level vials: horizontal and vertical • 5-year guarantee for the level vials

Code	Length (mm)	
15234	400	40
15236	600	40
15238	800	40
15240	1000	20
15242	1200	20
15245	1500	10



3 SPIRIT LEVELS - 2 AIR BUBBLES

• СПИРТОВ ЫЕ МАГНИТЫЕ УРОВНИ 2 МАГНИТА 2 ГЛАЗКА • WASSERWAAGEN – 2 LIBELLEN, 2 MAGNETE



AL

- Accuracy 0.029°=0.5 mm/m • Aluminium box body • 2 level vials - horizontal and vertical indicator • Shockresistant, glued indicators
- Two magnets • Profile made from anodized aluminium offers resistance to corrosion

Code	Length (mm)	
15828	400	5
15829	600	5
15830	800	5
15831	1000	5

4 TRAPEZOIDAL SPIRIT LEVEL - 2 AIR BUBBLES

• СПИРТОВОЙ ТРАПЕЦЕИДАЛЬНЫЙ УРОВЕНЬ - 2 ГЛАЗКА • WASSERWAAGE IN TRAPEZFORM – 2 LIBELLEN



AL

- Aluminium body • 2 level vials: horizontal and vertical
- Measuring plane with additional machining

Code	Length (mm)	
15194	400	40

PROLINE

1 MINI SPIRIT LEVEL

• УРОВЕНЬ АЛЮМИНИЕВЫЙ МИНИ • MINIWASSERWAAGE

PROLINE HD





10 cm | AL | 0,5mm/m | UV

• Accuracy of measurement 0.5 mm/1 m • Quality powder coated aluminium body • Compact, pocket size (10 cm) • One high-quality level resistant to shock and UV • Sold in a 10 pcs display box with a hanger (15940 is one piece)

Code	Length (mm)	
15940	100	10/100

2 SPIRIT LEVELS - 3 AIR BUBBLES

• СПИРТОВЫЕ УРОВНИ - 3 ГЛАЗКА
• WASSERWAAGEN – 3 LIBELLEN



AL

• Accuracy 1 mm/1 m • Aluminium box body • 3 level vials: horizontal, vertical and angular, with angle setting every 1° to 90° • 5-year guarantee for the level vials • Scale on the casing

Code	Length (mm)	
15054	400	30
15056	600	30
15058	800	30
15060	1000	20
15062	1200	20
15065	1500	20
15070	2000	20

3 SPIRIT LEVELS - 3 AIR BUBBLES

• СПИРТОВЫЕ УРОВНИ - 3 ГЛАЗКА • WASSERWAAGEN – 3 LIBELLEN



AL

• Accuracy 0.5 mm/1 m (up to 1 m in length) and 1 mm/1 m (other lengths) • Aluminium box body, wall thickness at least 1.5 mm • 3 level vials: horizontal, vertical and angular 45° • 5-year guarantee for the level vials • Measuring plane with additional machining

Code	Length (mm)	
15076	600	25
15078	800	25
15080	1000	20
15082	1200	20
15085	1500	10
15090	2000	10

4 STRAIGHT EDGES

• СТРОИТЕЛЬНЫЕ ПРАВИЛА • MAURER-WASSERWAAGE RECHTECKIG



AL

• Accuracy 1 mm/1 m • Aluminium • Smooth

Code	Length (m)	
15520	2.0	5
15525	2.5	5
15530	3.0	5
15540	4.0	5

5 STRAIGHT EDGES - 1 OR 2 AIR BUBBLES

• СТРОИТЕЛЬНЫЕ ПРАВИЛА - 1 ИЛИ 2 ГЛАЗКА
• MAURER-WASSERWAAGE RECHTECKIG – 1 ODER 2 LIBELLEN



AL

• Accuracy 1 mm/1 m • Aluminium • Shock-resistant level vial with 5-year guarantee • Straightedges with horizontal or horizontal&vertical indicator

Code	Length (m)	Quantity of levels	
15615	1.5	1	5
15620	2.0	1	5
15625	2.5	1	5
15630	3.0	1	5
15640	4.0	1	5
15720	2.0	2	5
15725	2.5	2	5
15730	3.0	2	5

6 STRAIGHT EDGES - 2 AIR BUBBLES

• СТРОИТЕЛЬНЫЕ ПРАВИЛА - 2 ГЛАЗКА
• MAURER-WASSERWAAGE RECHTECKIG – 2 LIBELLEN



AL

• Accuracy 1 mm/1 m • Aluminium • Rectangular with two level vials

Code	Length (m)	Quantity of levels	
15721	2.0	2	5
15726	2.5	2	5
15731	3.0	2	5

7 FEATHER EDGES

• СТРОИТЕЛЬНЫЕ ТРАПЕЦИЕВИДНЫЕ ПРАВИЛА
• MAURER-WASSERWAAGE TRAPEZ



AL

• Accuracy 1 mm/1 m • Aluminium
• For gypsum plaster

Code	Length (m)	
15410	1.0	5
15412	1.2	5
15415	1.5	5
15418	1.8	5
15420	2.0	5
15424	2.4	5
15430	3.0	5

1 LASER LEVEL

- ЛАЗЕРНЫЙ УРОВЕНЬ
- LASER-WASSERWAAGE







- Accuracy 0.5 mm / 1m • Laser power ≤ 1mW • Laser wavelength 635nm
- Work range 5 ~ 10m • Range of automatic levelling 4 ° - self-levelling
- Power supply 2xAA 3V • Easy measurement and ability to switch on a horizontal and/or vertical laser beam • Wide applicability inside and outside
- Separate vertical and horizontal line control • Revolving base can be installed on a stand • Magnetic, automatic stabilisation • Easy and reliable device locking system • The set includes a stand improving measuring abilities, glasses improving laser beam visibility • Packed in a case

Code	Measuring range (m)	Stand adjustment (mm)	
15170	10	55-125	4



2 GRADIENT LEVELS

- СПИРТОВЫЕ УРОВНИ ДЛЯ НАКЛОННЫХ ПОВЕРХНОСТЕЙ
- NEIGUNGSWINKEL-WASSERWAAGEN



AL

- For accurate gradient making • Aluminium box body • Groove in the pipe base • Measuring plane with additional machining • Each level has 5 vials: horizontal, vertical, 45° and two gradient ones, 1.5° and 3.5°

Code	Length (mm)	
15396	600	50
15398	800	50

3 POST LEVEL

- СПИРТОВОЙ УРОВЕНЬ ДЛЯ СТОЛБОВ И КОСЯКОВ • PFOSTEN-WASSERWAAGE





- Any angle of application, with toothed scale every 15° • Magnetic • 3 vials: • 2 horizontal and vertical • Ability to measure the horizontal aspect of flat surfaces • Foldable, for easy storage

Code	Length (mm)		
15300	135	x	50

1 CROSS LASER

• ЛАЗЕРНЫЙ НИВЕЛИР • KREUZLASER





- Accuracy 0.5 mm / 1m • Laser power ≤ 1mW • Laser wavelength 635nm • Work range 15m indoor (up to 20m with the detector
- Range of automatic levelling 4 ° (± 1°)- self-levelling • Power supply 2xAA 1,5V • Easy measurement and ability to switch on a horizontal and/or vertical laser beam • Wide applicability inside and outside
- Can be installed on a stand (1/4") • Easy and reliable device locking system enabling oblique lines determination • Include: cross laser, clamping buckle with moving head, case

Code	Range (m)	
15175	15	20

2 MULTIMETER

• МУЛЬТИМЕТР • MULTIMETER





- Backlit LCD screen • Hold system for maintaining the lit measurement

Code	
15186	40



3 CLAMP MULTIMETER

• КЛЕЩИ-МУЛЬТИМЕТР • KLEMMMULTIMETER





- Non-contact inductive measurement of alternating current (A)
- Backlit LCD screen • Hold system for maintaining the lit measurement
- Automatic (10 min.) turn-off function.

Code	
15187	60

1 LASER DISTANCE METER

• ЛАЗЕРНЫЙ ДАЛЬНОМЕР • LASER-ENTFERNUNGSMESSER



- Measurement time 0.5 sec. • Class II laser • Type of laser 635 nm, <1 mW • Diameter of the laser spot (at lengths) 6 mm at 10 m, 30 mm at 40 m • Automatic switch-off after 180 s • Backlit screen • Storage for 20 measurements • 3 starting points: the rangefinder's front, back or foot in the case of measurements in a corner • Three types of measurements: single measurement, continuous measurement, Pythagorean theorem - direct and indirect, surface area and volume calculation • Measurement of a plane inclination angle (only in the 15174 model) • Possibility to add and subtract measurements • Battery lifetime (AAA, 2 x 1.5 V) for 5000 measurements • Dimensions and weight: 120 mm x 48 mm x 24 mm, 109 g
- Temperature range: storage from -20 °C to + 65 °C, work from 0 °C up to + 40 °C • Packed in a box with an instruction manual

Code	Measurement range (m)	Measurement accuracy	Measurement of the surface inclination angle	
15173	0.05-20	+/-3mm (max +/-5mm)	-	20
15174	0.05-40	+/-2mm (max +/-3mm)	do 90°	20

1 MACHINIST HAMMERS

• СЛЕСАРНЫЕ МОЛОТКИ • SCHLOSSERHÄMMER



STAL IC45 · DIN 1041 · HRC 55±2

• Forged and quenched head • Handle made from ashen wood with plastic cover preventing hammer base damage (the cover not installed in 2000g hammer)

Code	Weight (g)	
12581	100	10
12582	200	10
12583	300	10
12585	500	10
12587	700	10
12588	800	10
12590	1000	10
12591	1500	6
12592	2000	6

2 MACHINIST HAMMERS

• СЛЕСАРНЫЕ МОЛОТКИ • SCHLOSSERHÄMMER



DIN 1041 · HRC 54±2

• Forged and quenched head • Wooden handle, varnished with plastic cover • Reinforced head seating by means of an expandable bushing and resin

Code	Weight (g)	
12601	100	10
12602	200	10
12603	300	10
12604	400	10
12605	500	10
12608	800	10
12610	1000	10
12615	1500	6
12620	2000	6

3 MACHINIST HAMMERS - FIBREGLASS SHAFT

• СЛЕСАРНЫЕ МОЛОТКИ - РУКОЯТКА ИЗ СТЕКЛОВОЛОКНА • SCHLOSSERHÄMMER - GLASFASERSTIEL



75% GRP · DIN 1041 · HRC 54±2

• Forged and quenched head • Two-composite, non-slip TPR handle

Code	Weight (g)	
12511	100	6/96
12512	200	6/60
12513	300	6/48
12514	400	6/36
12515	500	6/36
12518	800	6/24
12520	1000	6/18
12521	1500	6/12
12522	2000	4/8

4 MACHINIST HAMMERS - FIBREGLASS SHAFT

• СЛЕСАРНЫЕ МОЛОТКИ - РУКОЯТКА ИЗ СТЕКЛОВОЛОКНА • SCHLOSSERHÄMMER - GLASFASERSTIEL



GRP · DIN 1041 · HRC 54±2

• Forged and quenched head • Non-slip handle

Code	Weight (g)	
12502	200	12/60
12503	300	6/48
12504	400	6/36
12505	500	6/36
12508	800	6/24
12510	1000	6/12

5 STEEL TUBE MACHINIST HAMMERS

• СЛЕСАРНЫЕ МОЛОТКИ, РУКОЯТКА ИЗ СТАЛЬНОЙ ТРУБКИ
• SCHLOSSERHÄMMER - ROHRSTIEL



DIN 1041 · HRC 55±2

• Forged, quenched and polished head • Two-composite, non-slip TPR handle
• Additional protection of the head and handle with rivets

Code	Weight (g)	
12547	300	6/24
12546	500	6/24

6 MONOBLOCK CLAW HAMMER

• МОЛОТОК СТОЛЯРНЫЙ, МОНОБЛОК • SCHREINERHAMMER - MONOBLOCK



ASME

• Handle and head made from a single steel component ensure hammer durability • Forged, quenched and polished head • Two-composite, non-slip TPR handle • Additional handle protection with a rivet

Code	Weight (g)	
12220	450	4/24

1 CLAW HAMMER - FIBREGLASS SHAFT

• МОЛОТОК СТОЛЯРНЫЙ - РУКОЯТКА ИЗ СТЕКЛОВОЛОКНА
• SCHREINERHAMMER - GLASFASERSTIEL



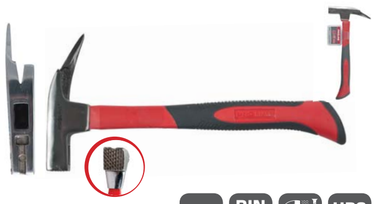
GRP HRC 54±2

- Forged, quenched and polished head
- Two-composite, non-slip TPR handle

Code	Weight (g)	
12523	450	6/24

2 ROOFING HAMMER - FIBREGLASS SHAFT

• МОЛОТОК КРОВЕЛЬЩИКА - РУКОЯТКА ИЗ СТЕКЛОВОЛОКНА
• ZIMMERMANNSHAMMER - GLASFASERSTIEL



GRP DIN 7239 HRC 54±2

- Forged, quenched and polished head
- Two-composite, non-slip TPR handle

Code	Weight (g)	
12524	600	6/24

3 MASONRY HAMMER - R TYPE - FIBREGLASS SHAFT

• МОЛОТОК КАМЕНЩИКА - РЕЙНСКИЙ - РУКОЯТКА ИЗ СТЕКЛОВОЛОКНА
• MAURERHAMMER RHEINISCHE FORM - GLASFASERSTIEL



GRP DIN 5108 HRC 54±2

- Forged, quenched and polished head • Two-composite, non-slip TPR handle

Code	Weight (g)	
12526	600	6/24

4 MASONRY HAMMER - B TYPE - FIBREGLASS SHAFT

• МОЛОТОК КАМЕНЩИКА - БЕРЛИНСКИЙ - РУКОЯТКА ИЗ СТЕКЛОВОЛОКНА • MAURERHAMMER BERLINER FORM - GLASFASERSTIEL



GRP DIN 5108 HRC 54±2

- Forged, quenched and polished head • Two-composite, non-slip TPR handle

Code	Weight (g)	
12527	600	6/24

5 STONE HAMMERS

• МОЛОТКИ КАМЕНЩИКА • STEINMETZHÄMMER



DIN 6475 75% GRP

- Forged and quenched head
- Two-composite, non-slip TPR handle

Code	Weight (g)	
12561	1000	6/18
12565	1500	6/12
12572	2000	4/8

6 RUBBER MALLETS

• РЕЗИНОВЫЕ МОЛОТКИ • GUMMIHÄMMER



- Head made from two-colour rubber
- Additional reinforcement of head base with a nail
- Handle varnished, made from high-quality hard wood

Code	Weight (g)	Head diameter (mm)	
12021	230	44	12/48
12022	340	49	12/48
12023	370	50	6/36
12024	580	58	6/36
12025	780	63	6/24
12026	980	72	6/12

1 DEAD-BLOW HAMMERS

• МОЛОТОК БЕЗ ОТСКОКА • KUNSTSTOFFHAMMER



- Head filled with metal shot reduces rebound after the strike
- Monolithic rubber plastic structure does not damage material during work
- Non-slip handle

Code	Weight (g)	Head diameter (mm)	
12611	840	48	6/24
12612	940	53	6/24
12613	1360	60	6/12

2 DUAL-HEAD HAMMERS

• МОЛОТКИ ЖЕСТЯНЩИКА • DOPPELKOPFHAMMER



PU NYLON

- Hammers with 2 interchangeable heads: soft (gray PU) and hard (red NYLON) available separately (12631-12635)

Code	Weight (g)	Head diameter (mm)	
12621	135	22	6/48
12622	230	28	6/48
12623	350	35	6/36
12624	645	45	6/24
12625	1520	60	6/12

3 HEADS FOR DUAL-HEAD HAMMERS

• НАКОНЕЧНИКИ ДЛЯ МОЛОТКОВ ЖЕСТЯНЩИКА • KÖPFE FÜR DOPPELKOPFHAMMER



PU NYLON

- Soft PU (gray) and hard NYLON (red) • Suitable for Proline 12621-12625 dual-head hammers and other models on the market with the same mounting

Code	Head diameter (mm)	
12631	22	100
12632	28	100
12633	35	100
12634	45	100
12635	60	100

4 AUTO-BODY REPAIR HAMMER SET

• НАБОР МОЛОТКОВ ЖЕСТЯНЩИКА • KAROSSERIE-REPARATURHAMMER-SET







x7 HRC 54±2 GENUINE HICKORY

- The set includes: 3 hammers with different heads, 4 steel anvils for shaping steel sheet and a carrying case

Code	Weight (g)	
12670	5000	4

1 SMOOTH STAINLESS PLASTERING TROWELS

• ШТУКАТУРНЫЕ НЕРЖАВЕЮЩИЕ ГЛАДИЛКИ
• EDELSTAHL-GLÄTTKELLE

61530



61536-61539



• Wooden handle • Aluminium foot

Code	Dimension (mm)	
61530	270 x 130	40
61536	380 x 130	25
61537	480 x 130	25
61538	580 x 130	30
61539	680 x 130	30

2 SMOOTH STAINLESS PLASTERING TROWEL

• ШТУКАТУРНАЯ НЕРЖАВЕЮЩАЯ ГЛАДИЛКА
• EDELSTAHL-GLÄTTKELLE



• Two-component plastic handle

Code	Dimension (mm)	
61520	270 x 130	30

3 SMOOTH STAINLESS PLASTERING TROWEL

• ШТУКАТУРНАЯ НЕРЖАВЕЮЩАЯ ГЛАДИЛКА
• EDELSTAHL-GLÄTTKELLE



• Two-component plastic handle • Aluminium foot

Code	Dimension (mm)	
61510	270 x 130	40

4 SMOOTH STAINLESS PLASTERING TROWEL

• ШТУКАТУРНАЯ НЕРЖАВЕЮЩАЯ ГЛАДИЛКА
• EDELSTAHL-GLÄTTKELLE



• Two-component plastic handle
• Aluminium foot

Code	Dimension (mm)	
61640	280 x 130	30

5 STAINLESS ADHESIVE SPREADING TROWELS

• ГЛАДИЛКИ ВЫРАВНИВАЮЩИЕ С ЗУБЦАМИ
• EDELSTAHL-GLÄTTKELLE MIT ZÄHNE



• Wooden handle • Aluminium foot

Code	Dimension (mm)	Tooth (mm)	
61531	270 x 130	4 x 4	40
61532	270 x 130	6 x 6	40
61533	270 x 130	8 x 8	40
61534	270 x 130	10 x 10	40
61535	270 x 130	12 x 12	40

6 STAINLESS ADHESIVE SPREADING TROWELS

• ГЛАДИЛКИ ВЫРАВНИВАЮЩИЕ С ЗУБЦАМИ
• EDELSTAHL-GLÄTTKELLE MIT ZÄHNE



• Two-component plastic handle

Code	Dimension (mm)	Tooth (mm)	
61521	270 x 130	4 x 4	30
61522	270 x 130	6 x 6	30
61523	270 x 130	8 x 8	30
61524	270 x 130	10 x 10	30
61525	270 x 130	12 x 12	30

7 STAINLESS ADHESIVE SPREADING TROWELS

• ГЛАДИЛКИ ВЫРАВНИВАЮЩИЕ С ЗУБЦАМИ
• EDELSTAHL-GLÄTTKELLE MIT ZÄHNE



• Two-component plastic handle • Aluminium foot

Code	Dimension (mm)	Tooth (mm)	
61511	270 x 130	4 x 4	40
61512	270 x 130	6 x 6	40
61513	270 x 130	8 x 8	40
61514	270 x 130	10 x 10	40
61515	270 x 130	12 x 12	40

8 STAINLESS ADHESIVE SPREADING TROWELS

• ГЛАДИЛКИ ВЫРАВНИВАЮЩИЕ С ЗУБЦАМИ
• EDELSTAHL-GLÄTTKELLE MIT ZÄHNE



• Two-component plastic handle
• Aluminium foot

Code	Dimension (mm)	Tooth (mm)	
61644	280 x 130	4 x 4	30
61646	280 x 130	6 x 6	30
61648	280 x 130	8 x 8	30
61649	280 x 130	10 x 10	30

9 CARBON BRICK TROWELS

• КЕЛЬМЫ КАМЕНЩИКА ТРЕУГОЛЬНЫЕ
• STAHL-MAURERKELLEN DREIECKIG



• Two-component plastic handle

Code	Size (mm)	
61581	160	30
61582	180	20
61583	200	20

PROLINE

1 STAINLESS BRICK TROWELS

• НЕРЖАВЕЮЩИЕ КЕЛЬМЫ КАМЕНЩИКА ТРЕУГОЛЬНЫЕ
• EDELSTAHL-MAURERKELLEN DREIECKIG



STAINLESS

• Two-component plastic handle

Code	Size (mm)	
61571	160	30
61572	180	20
61573	200	20

2 STAINLESS BRICK TROWEL

• НЕРЖАВЕЮЩАЯ КЕЛЬМА ШТУКАТУРНАЯ
• EDELSTAHL-STUCKATEURKELLE



STAINLESS

• Two-component plastic handle

Code	Blade lenght (mm)	
61579	132	12

3 CARBON GAUGING TROWEL

• КЕЛЬМА ШТУКАТУРНАЯ
• STAHL-STUCKATEURKELLE



CARBON

• Two-component plastic handle

Code	Blade lenght (mm)	
61589	140	12

4 STAINLESS BUCKET TROWELS

• НЕРЖАВЕЮЩИЕ КЕЛЬМЫ КАМЕНЩИКА ТРАПЕЦЕИДАЛЬНЫЕ
• EDELSTAHL-TRAPEZKELLEN



STAINLESS

• Two-component plastic handle

Code	Dimension (mm)	
61575	140 x 90 x 60	12
61576	160 x 90 x 60	30
61577	180 x 120 x 90	30

5 STAINLESS STRIPPING KNIVES

• НЕРЖАВЕЮЩИЕ ШПАТЕЛЯ • EDELSTAHL-SPACHTEL



STAINLESS

• Wide blade seating in the handle
• Two-component plastic handle

Code	Width (mm)	
61562	40	20
61563	60	20
61564	80	20
61565	100	20
61566	120	20
61567	150	20

6 WALL SCRAPERS

• НЕРЖАВЕЮЩИЕ ШПАТЕЛЯ
• EDELSTAHL-SPACHTEL



STAINLESS

• Polished • High blade resilience
• Two-component non-slip TPR handle

Code	Width (mm)	
31180	30	6/48
31181	40	6/48
31182	50	6/48
31183	60	6/48
31184	80	6/48
31185	100	6/48
31186	125	6/48
31187	150	6/48

7 WALL SCRAPERS

• СТАЛЬНЫЕ ШПАТЕЛЯ
• STAHL-SPACHTEL



• Polished • Two-component non-slip handle

Code	Width (mm)	
31170	30	12/240
31171	40	12/240
31172	50	12/240
31173	60	12/240
31174	80	12/240
31175	100	12/240
31176	125	12/240
31177	150	12/240

8 WALL SCRAPERS

• СТАЛЬНЫЕ ШПАТЕЛЯ
• STAHL-SPACHTEL



• Polished • Two-component non-slip handle

Code	Width (mm)	
31031	30	12/240
31041	40	12/240
31051	50	12/240
31061	60	12/240
31081	80	12/240
31101	100	12/240
31121	125	12/240

9 STAINLESS STRIPPING KNIVES

• НЕРЖАВЕЮЩИЕ ШПАТЕЛЯ
• EDELSTAHL-SPACHTEL FÜR FEINPUTZ



STAINLESS

• Plastic handle

Code	Width (mm)	Blade height (mm)	
61552	335	75	20
61553	340	95	20

10 PLASTER SMOOTHERS

• АБРАЗИВНЫЕ ЗАТИРОЧНЫЕ СЕТКИ • SCHLEIFNETZE



• Double adhesive layer, offering high efficiency and resistance • Perfect for gypsum, wooden, stone surfaces

Code	Dimension (mm)	Granulation	
61804	275 x 105	P40	50/1200
61806	275 x 105	P60	50/1500
61808	275 x 105	P80	50/1750
61810	275 x 105	P100	50/2250
61812	275 x 105	P120	50/2250
61815	275 x 105	P150	50/2500
61818	275 x 105	P180	50/2750
61822	275 x 105	P220	50/2750
61824	275 x 105	P240	50/3000
61832	275 x 105	P320	50/3000
61840	275 x 105	P400	50/3000

1 PAINT STIRRERS

• НАСАДКИ ДЛЯ СТРОИТЕЛЬНЫХ МИКСЕРОВ • RÜHRSTÄBE

Type A 00001 | Type A 00002 00003 | Type B | Type C | Type D | Type E



- **PROFESSIONAL QUALITY**
- **GALVANISED STEEL WITH VARIOUS ENDINGS: HEXAGONAL (TYPE A, B, C, D, E) OR SDS PLUS (TYPE C) OR WITH M14 THREAD (TYPE C, E) SUSPENSION**

TYPE A – FOR PAINTS (emulsion, acrylic, dispersion paints, varnishes, wood stains and all-purpose paints), recommended mixing speed 300-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00001	60 x 300	0.8 - 2	hexagonal - 6mm	10
00002	80 x 400	5 - 15	hexagonal - 8mm	10
00003	100 x 500	5 - 20	hexagonal - 8mm	10

TYPE B – FOR SEMI-LIQUID MATERIALS (jointless floors, self-levelling compound, bituminous compounds: binders, abizol, dysperbit), recommended mixing speed 300-600 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00004	80 x 400	5 - 15	hexagonal - 8mm	10
00005	100 x 500	5 - 25	hexagonal - 8mm	10

TYPE C – FOR THICK MATERIALS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00006	80 x 400	10 - 20	hexagonal - 8mm	10
00007	100 x 500	10 - 20	hexagonal - 8mm	10
00008	120 x 600	16 - 35	hexagonal - 10mm	10
00013	120 x 600	16 - 35	SDS PLUS	10
00014	120 x 600	16 - 35	M14	10

TYPE D – FOR HEAVY MORTARS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm. The work part is twice longer than for C type.

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00009	80 x 400	10 - 30	hexagonal - 8mm	10
00010	100 x 500	10 - 40	hexagonal - 8mm	10

TYPE E – FOR GYPSUM (gypsum, gypsum plaster, putty coat), recommended mixing speed 200-500 rpm.

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
00011	80 x 530	10 - 15	hexagonal - 8mm	10
00012	100 x 540	12 - 30	hexagonal - 8mm	10
00015	120 x 540	15 - 35	M14	10

2 PAINT STIRRERS

• НАСАДКИ ДЛЯ СТРОИТЕЛЬНЫХ МИКСЕРОВ • RÜHRSTÄBE

Type A | Type B | Type C | Type D | Type E



- **PROFESSIONAL QUALITY**
- **GALVANISED STEEL WITH VARIOUS ENDINGS: HEXAGONAL (TYPE A, B, C, E) OR WITH M14 THREAD (TYPE D, E) SUSPENSION**

TYPE A – FOR PAINTS (emulsion, acrylic, dispersion paints, varnishes, wood stains and all-purpose paints), recommended mixing speed 300-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41022	80 x 400	5 - 15	hexagonal - 8mm	50
41023	100 x 500	5 - 20	hexagonal - 10mm	50

TYPE B – FOR SEMI-LIQUID MATERIALS (jointless floors, self-levelling compound, bituminous compounds: binders, abizol, dysperbit), recommended mixing speed 300-600 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41024	80 x 400	5 - 15	hexagonal - 8mm	50
41025	100 x 500	5 - 25	hexagonal - 10mm	50

TYPE C – FOR THICK MATERIALS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41003	80 x 400	10 - 20	hexagonal - 8mm	10/60
41004	100 x 600	10 - 40	hexagonal - 10mm	10/40

TYPE D – FOR HEAVY MORTARS (thinset mortar, glues for thermal insulation, structural plaster, plaster, masonry mortar and concrete), recommended mixing speed 200-500 rpm. The work part is twice longer

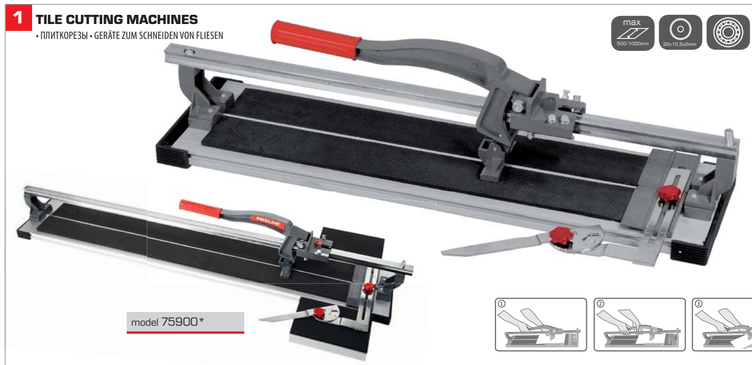
Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41014	120 x 540	16 - 35	M14	24

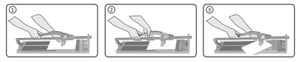
TYPE E – FOR GYPSUM (gypsum, gypsum plaster, putty coat), recommended mixing speed 200-500 rpm.

Code	Diameter x Lenght (mm)	Weight of mixed material (kg)	Rod ending	
41011	80 x 530	5 - 15	hexagonal - 8mm	50
41012	100 x 540	12 - 30	hexagonal - 10mm	24
41015	120 x 600	16 - 35	M14	24

1 TILE CUTTING MACHINES

• ПЛИТКОРЕЗЫ • GERÄTE ZUM SCHNEIDEN VON FLIESEN



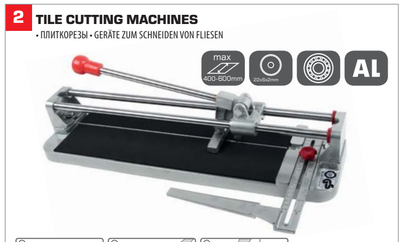


• Special, heavy-duty guide section • Adjustable guide clamp • Gauge for angular cutting • Maximum thickness of cut tile 20 mm • Aluminium base • Replacement disc available - 75725 code • Fixing set for under cutting discs available - code PKT001UW • Two side supports for stable arrangement of big tiles

Code	Cutting length (mm)	Base width (mm)		
75850	500	200	x	2
75860	600	200	x	2
75870	700	200	x	2
75880	800	200	x	2
75900	1000	200 (+150+150)*	x	2

2 TILE CUTTING MACHINES

• ПЛИТКОРЕЗЫ • GERÄTE ZUM SCHNEIDEN VON FLIESEN





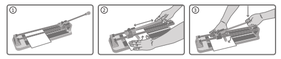
• Aluminium base • Special base reinforcement preventing deflection when cutting and breaking a tile • Maximum thickness of cut tile 14 mm • Replacement disc code 75722

Code	Cutting length (mm)	Base width (mm)		
75340	400	180	x	2
75350	500	180	x	2
75360	600	180	x	2

3 TILE CUTTING MACHINES

• ПЛИТКОРЕЗЫ • GERÄTE ZUM SCHNEIDEN VON FLIESEN





• Steel base • Special base reinforcement preventing deflection when cutting and breaking a tile Maximum thickness of cut tile 14 mm • Replacement disc - code 75722

Code	Cutting length (mm)	Base width (mm)		
75540	400	180	x	2
75550	500	180	x	2
75560	600	180	x	2

4 TILE CUTTING WHEEL

• ЗАПАСНЫЕ РЕЖУЩИЕ РОЛИКИ • PAPILDOMAS RATUKAS PLYTELIŲ PJOVIMO ĮRANKIAMS



• Disc for tile-cutting tools - code **75850, 75860, 75870, 75880, 75900**

Code	Dimension (mm)		
75725	22 x 10.5 x 2	x	200

5 SUPPORT RINGS FOR CUTTING WHEELS

• НАБОР ПОДКЛАДОК ПОД РЕЖУЩЕЕ КОЛЕСО ДЛЯ ПЛИТКОРЕЗА • STÜTZRINGE FÜR TRENNSCHEIBEN



• Glaze cutter inserts - code **75850, 75860, 75870, 75880, 75900**

Code		
PKT001UW	x	250

Precisely made, PROLINE's durable brushes and rollers are irreplaceable when painting both large and smaller surfaces, for professionals and ambitious amateurs. With them you will achieve the intended effect easily and quickly. When choosing painting tools, pay attention to the three basic factors that determine the product to be used - the size of the painted surface, the type of paint and the type (structure) of the substrate.

Surface area:
Rollers 180 mm to 250 mm in length are recommended for painting large surfaces, such as walls or ceilings, as they allow you to collect a large quantity of paint at once, and make it possible to quickly and evenly cover the painted surface. In the case of smaller, flat surfaces, rolls with a length of 100 mm will work much better, making it easier to paint, for example, window recesses without using too much paint, as well as allowing precise painting in hard-to-reach places. Brushes are definitely better for painting small surfaces, nooks and crannies or irregular surfaces and shapes.

ROLLER MODEL	AVAILABLE DIMENSIONS OF INSERTS (mm)							
	10x100	30x100	50x180	50x250	35x50	35x70	35x100	mini set:*
WESTAN			x	x				
SYNTEX	x			x				x
NYLON	x	x	x	x				x
ELIKATOR	x			x				x
REX OLIWKA	x	x	x	x				x
MOLTOPREN					x	x	x	
WELUR	x	x						x
GIRPAINT	x							x

* Two 10 x 100 mm covers, paint tray, and handle

ROLLER MODEL	PURPOSE									
	emulsion paints	latex paints	silicone paints	silicate paints	thixotropic paints	solvent-based varnishes	water-based varnishes	thick varnishes	two-component paints (epoxy polyester)	stains
WESTAN	x									
SYNTEX	x			x	x					
NYLON	x	x				x	x	x	x	x
ELIKATOR	x			x	x					
REX OLIWKA	x		x	x	x					
MOLTOPREN						x	x	x	x	x
WELUR	x	x				x	x	x	x	x
GIRPAINT	x			x	x					

Substrate and paint type:
The paint or varnish needs to be selected appropriately for the type of surface and the effect you want to achieve. Paint and varnish manufacturers provide detailed information on their packaging regarding their products, purpose, use and recommended painting tools. If such information is absent, knowing how to choose the right tool is very useful.

Brushes - when choosing a brush for painting pay special attention to the key part - the bristles. Brushes with natural bristles are made for solvent-based varnishes and paints, brushes with synthetic bristles for water-borne paints, while brushes with mixed bristles for both water-borne and oil-based paints or varnishes.
Rollers - The height of the nap should be matched to the painted surface's structure. A short nap is decidedly better for painting very smooth surfaces, such as a gypsum-based finish. The more structural and porous the surface, the larger the nap on the roller should be, so rollers with a large nap are recommended for painting façades. The material from which the roller is made is also important. The uses of all PROLINE rollers are shown in the table above

Before starting, consider purchasing painting accessories that will simplify and speed up your work, so that painting becomes a pleasure, not a chore. It is a good idea to equip yourself with an appropriate size tray and grille, an extending pole for rollers that increase the range of movement, as well as a masking tape and film, which help you avoid drips during work or save time needed for cleaning afterwards.



Принадлежности для покраски

PROLINE

Выполненные с высокой точностью, надежные кисти и валики PROLINE незаменимы при покраске больших и малых поверхностей профессионалами и любителями. С ними вы легко и быстро достигнете желаемого эффекта. При выборе инструментов для покраски обращайте внимание на три основных фактора, которые определяют используемый продукт - размер окрашиваемой поверхности, тип краски и тип (структура) подложки.

Площадь поверхности:
Валики длиной от 180 до 250 мм рекомендуется использовать для покраски больших поверхностей, таких как стены или потолки, поскольку они позволяют собирать за раз большое количество краски, а также быстро и равномерно покрыть окрашенную поверхность. Для небольших плоских поверхностей намного лучше подойдут валики длиной 100 мм, которыми будет более просто покрасить например оконные ниши без использования слишком большого количества краски, а также выполнить покраску в труднодоступных местах. Для покраски небольших поверхностей, уголков и закоулков или неправильных поверхностей и форм, безусловно, лучше подойдут кисти.

МОДЕЛЬ ВАЛИКА	ДОСТУПНЫ РАЗМЕРЫ ВКЛАДЫШЕЙ (мм)							
	10x100	30x100	50x180	50x250	35x50	35x70	35x100	zestaw mini*
WESTAN			x	x				
SYNTEX	x			x				x
НЕЙЛОН	x	x	x	x				x
ELIKATOR	x			x				x
REX OLIWKA	x	x	x	x				x
MOLTOPREN					x	x	x	
WELUR	x	x						x
GIRPAINT	x							x

* Два вкладыша 10 x 100 мм, кювет и ручка

МОДЕЛЬ ВАЛИКА	ПРЕДНЗНАЧЕНИЕ									
	эмульсионные краски	краски латексные	краски силиконовые	краски силикатные	краски тиксотропные	лаки на основе растворителя	лаки на базе воды	лаки густые	двухкомпонентные краски (эпоксидные, морилки полиэфирные)	
WESTAN	x									
SYNTEX	x			x	x					
НЕЙЛОН	x	x				x	x	x	x	x
ELIKATOR	x			x	x					
REX OLIWKA	x		x	x	x					
MOLTOPREN						x	x	x	x	x
WELUR	x	x				x	x	x	x	x
GIRPAINT	x			x	x					

Тип подложки и краски:
Краску или лак выбирают в соответствии с типом поверхности и желаемым эффектом. Производители красок и лаков предоставляют на упаковке подробную информацию по продуктам, назначению, использованию и рекомендуемым инструментам. Если такая информация отсутствует, полезно будет знать, как правильно выбрать инструмент.

Кисти - при выборе кисти особое внимание обращают на основную часть - щетину. Кисти с натуральной щетиной предназначены для лаков и красок на основе растворителей, кисти с синтетической щетиной используются для красок на водной основе, а кисти со смешанной щетиной - для красок и лаков на водной и масляной основе.
Валики - высота ворса должна соответствовать структуре окрашиваемой поверхности. Короткий ворс лучше подходит для покраски очень гладких поверхностей, например, с гипсовой основой. Чем более структурная и пористая поверхность, тем больше должен быть ворс на валике, поэтому для покраски фасадов рекомендуются валики с большим ворсом. Также важен материал, из которого сделан валик. В предыдущей таблице показаны типы использования всех валиков PROLINE

Прежде чем приступить к покраске, необходимо приобрести соответствующие принадлежности, которые упростят и ускорят работу, чтобы покраска стала удовольствием, а не рутиной. Рекомендуется подготовить лоток и решетку подходящего размера, длинную рукоять для валиков, которая увеличивает диапазон перемещения, а также малярную ленту и пленку, которые защитят от капель во время работы или сэкономят время, необходимое для последующей уборки.



Präzise gefertigt sind die langlebigen Bürsten und Rollen von PROLINE sowohl beim Malen großer als auch kleiner Flächen unersetzlich und sowohl für Profis als auch ambitionierte Amateure geeignet. Mit ihnen erzielen Sie einfach und schnell die gewünschte Wirkung. Achten Sie bei der Auswahl der Malwerkzeuge auf die drei grundlegenden Faktoren, die bestimmen, welches Produkt verwendet werden muss - die Größe der bemalten Oberfläche, die Art der Farbe und die Art (Struktur) des Untergrunds.

Oberfläche:

Für Malarbeiten auf großen Flächen wie Wänden oder Decken werden Rollen mit einer Länge von 180 mm bis 250 mm empfohlen, da damit eine große Farbemenge auf einmal aufgenommen werden kann und die bemalte Oberfläche schnell und gleichmäßig abdecken werden kann. Bei kleineren, ebenen Flächen sind Rollen mit einer Länge von 100 mm wesentlich besser geeignet. Mit diesen können beispielsweise Fensteröffnungen ohne Verwendung von zu viel Farbe bemalt werden. Außerdem sind mit diesen Rollen Malarbeiten an schwer zugänglichen Stellen möglich. Pinsel eignen sich auf jeden Fall besser zum Bemalen von kleinen Flächen, Ecken und Winkeln oder unregelmäßigen Flächen und Formen.

ROLLENART	VERFÜGBARE GRÖSSEN DER EINSÄTZE (mm)							
	10x100	30x100	50x180	50x250	35x50	35x70	35x100	Satz Mini*
WESTAN			x	x				
SYNTEX	x			x				x
NYLON	x	x	x	x				x
ELIKATOR	x			x				x
REX OLIWKA	x	x	x	x				x
MOLTOPREN					x	x	x	
WELUR	x	x						x
GIRPAINT	x							x

* Zwei Einsätze 10 x 100 mm, Farbwanne und Bügel

ROLLENART	BESTIMMUNG									
	Dispersions-farben	Farbe, Latex	Farbe, Silikon	Farbe, Silikat	Farbe, thixotrop	Lacke auf Basis eines Lösungsmittels	Lacke auf Basis von Wasser	Lacke, zähflüssig	Zweikomponentenfarben (Epoxid-, Polyesterfarben)	Beizen
WESTAN	x									
SYNTEX	x			x	x					
NYLON	x	x				x	x	x	x	x
ELIKATOR	x			x	x					
REX OLIWKA	x		x	x	x					
MOLTOPREN						x	x	x	x	x
WELUR	x	x				x	x	x	x	x
GIRPAINT	x			x	x					

Untergrund und Farbart:

Sie müssen die Farbe oder den Lack entsprechend der Art der Oberflächen und entsprechend zu dem gewünschten Effekts auswählen. Hersteller von Farben und Lacken geben auf ihrer Verpackung detaillierte Informationen zu ihren Produkten, ihrem Verwendungszweck, ihrer Verwendung und den empfohlenen Malwerkzeugen. Falls solche Informationen nicht vorhanden sind, ist es sehr nützlich zu wissen, wie man das richtige Werkzeug auswählt.

Pinsel - bei der Auswahl eines Malpinsels muss besonders auf den Schlüsselteil geachtet werden - die Borsten. Pinsel mit Naturborsten sind für lösemittelhaltige Lacke und Farben bestimmt, Pinsel mit synthetischen Borsten für Wasserlacke und Pinsel mit gemischten Borsten sind sowohl für Wasser- als auch für Ölfarben oder Lacke bestimmt.

Rollen - Die Höhe des Flors muss an die Struktur der zu bemalenden Oberfläche angepasst werden. Ein kurzes Flor ist zweifelsohne besser geeignet für das Bemalen von sehr glatten Oberflächen wie z. B. Oberflächen auf Gipsbasis. Je struktureller und poröser die Oberfläche ist, desto größer sollte der Flor auf der Walze sein. Daher empfehlen sich Walzen mit großem Flor für Fassadenanstriche. Das Material, aus dem die Walze hergestellt ist, ist ebenfalls wichtig. Die Verwendungsmöglichkeiten aller PROLINE-Rollen sind in der obigen Tabelle aufgeführt.

Bevor Sie mit der Arbeit beginnen, erwägen Sie doch den Kauf von Malzubehör, das Ihre Arbeit einfacher gestalten wird und so das Malen zum Vergnügen und nicht zur lästigen Pflicht macht. Es ist eine gute Idee, sich mit einer Farbwanne und einem Gitter mit entsprechender Größe auszustatten sowie mit einer ausziehbaren Stange für die Malerrollen, die den Bewegungsbereich vergrößert. Außerdem ist es sinnvoll, sich mit einem Abdeckband und einem Film auszurüsten, um das Tropfen der Farbe während der Arbeit zu vermeiden oder sich die Zeit für Aufräumarbeiten nach der Arbeit zu sparen.



PROLINE®

1 PAINT BRUSHES

• ПЛОСКИЕ КИСТИ (ФЛЕЙЦЕВЫЕ) • ENGLISCHE PINSEL



OIL PAINT · TOPS 90

- Quality natural hair TOPS 90 • Wooden, lacquered handle • Brushes recommended to oil-based paints and varnishes

Code	Width (mm)	
41100	1"	12/240
41101	1 1/2"	12/240
41102	2"	12/240
41103	2 1/2"	12/120
41104	3"	12/120

2 PAINT BRUSHES

• ПЛОСКИЕ КИСТИ (ФЛЕЙЦЕВЫЕ) • ENGLISCHE PINSEL



ACRYLIC PAINT

- 50%-50% blend of natural bristles and OREL® • Lacquered wooden handle
- Brushes recommended for water-based paints

Code	Width (mm)	
41106	1"	12/240
41107	1 1/2"	12/240
41108	2"	12/240
41109	2 1/2"	12/120
41110	3"	12/120

3 PAINT BRUSHES

• ПЛОСКИЕ КИСТИ (ФЛЕЙЦЕВЫЕ) • ENGLISCHE PINSEL



SOFT TOUCH · OIL PAINT · TOPS 90

- High-quality natural bristle TOPS 90 • Two-component handle • Brushes designed for oil-based paints and varnishes

Code	Width (mm)	
41113	1"	12/240
41114	1 1/2"	12/240
41115	2"	12/240
41116	2 1/2"	12/120
41117	3"	12/120

4 PAINT BRUSHES

• ПЛОСКИЕ КИСТИ (ФЛЕЙЦЕВЫЕ) • ENGLISCHE PINSEL



SOFT TOUCH · ACRYLIC PAINT

- 50%-50% blend of natural bristle with polyester one • Two-component handle
- Brushes recommended for water-based paints

Code	Width (mm)	
41118	1"	12/240
41119	1 1/2"	12/240
41120	2"	12/240
41121	2 1/2"	12/120
41122	3"	12/120

5 ANGLE PAINT BRUSHES

• КИСТИ МАЛЯРНЫЕ УГЛОВЫЕ • WINKELPINSEL



OIL PAINT · TOPS 90

- High-quality natural bristle TOPS 90
- Lacquered wooden handle • Brushes designed for oil-based paints and varnishes

Code	Width (mm)	
41111	2"	12/120
41112	2 1/2"	12/120

6 ROLLERS WITH FRAME

• РУЧКИ И ВАЛИКИ МАЛЯРНЫЕ WESTAN • GRIFFE MIT WESTAN-ROLLE



- Sleeve made from shaggy polyester yarn
- Recommended for easy painting works
- Recommended for emulsion and latex paints
- Handle with steel wire Ø 8 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41142	50 x 180	8	1	40
41143	50 x 250	8	1	35

7 ROLLERS WITH FRAME

• РУЧКИ И ВАЛИКИ МАЛЯРНЫЕ NYLON • ROLLEN MIT RAHMEN

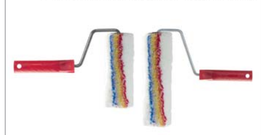


- Short 7 mm nap • Resistant to solvents
- Recommended for painting with oil nitro, chlorinated rubber, polyvinyl, corrosion protection, undercoat, two-component paints, as well as sticky substances such as polyester and epoxy resins • Handle with Ø 8 mm steel rod

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41150	50 x 180	8	1	40
41151	50 x 250	8	1	35

8 ROLLERS WITH FRAME

• РУЧКИ И ВАЛИКИ МАЛЯРНЫЕ ELIKATOR • ROLLEN MIT RAHMEN

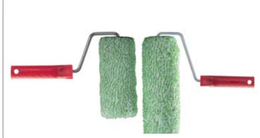


- Professional roller for painting porous and uneven façades • Nap made of densely woven fabric, highly resistant to abrasion • Nap 15 mm high • Recommended for painting with emulsion, acrylic, silicone and silicate paints
- For interior and exterior painting • Handle with Ø 8 mm steel rod

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41154	50 x 180	8	1	40
41155	50 x 250	8	1	35

9 ROLLERS WITH FRAME

• РУЧКИ И ВАЛИКИ МАЛЯРНЫЕ REX OLIWKA • ROLLEN MIT RAHMEN

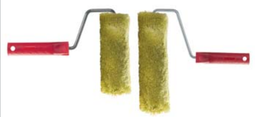


- Roller designed for cost-efficient painting of large surfaces with emulsion and latex paints
- Façade roller padded with PP foam 6 mm thick, covered with a polyamide-acrylic fabric
- Recommended for painting internal and external walls with façade paints • Handle with Ø 8 mm steel rod

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41158	70 x 180	8	1	30
41159	70 x 250	8	1	25

1 ROLLERS WITH FRAME

• РУЧКИ И ВАЛИКИ МАЛЯРНЫЕ SYNTEX • GRIFFE MIT SYNTEX--ROLLE



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Designed for economic coating of large areas • Handle with steel wire ∅ 8 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41146	50 x 180	8	1	40
41147	50 x 250	8	1	35

2 ROLLER WITH FRAME

• РУЧКА И ВАЛИК МАЛЯРНЫЙ NYLON • GRIFF MIT NYLON-ROLLE



- Short pile 7mm • Resistant to solvents
- Recommended for nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41243	30 x 100	6	1	50

3 ROLLER WITH FRAME

• РУЧКА И ВАЛИК МАЛЯРНЫЙ ELIKATOR • GRIFF MIT ELIKATOR--ROLLE



- Professional roller for coating porous and uneven facades • The sleeve made from thick-woven textile, highly resistant to abrasion • The pile 15mm high
- Recommended for emulsion, acrylic, silicon and silicate paints • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41258	30 x 100	6	1	50

4 ROLLER WITH FRAME

• РУЧКА И ВАЛИК МАЛЯРНЫЙ REX OLIWKA • GRIFF MIT REX OLIWKA ROLLE



- The roller is recommended for economic emulsion and latex paints • Facade roller lined with PP foam 6 mm thick, covered with polyamide-acrylic textile • Recommended for coating inner and outer walls with facade paints • Long and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41253	30 x 100	6	1	50

5 ROLLER WITH FRAME

• РУЧКА И ВАЛИК МАЛЯРНЫЙ SYNTEX • GRIFF MIT SYNTEX-ROLLE



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41268	30 x 100	6	1	50

6 ROLLER WITH FRAME

• РУЧКА И ВАЛИК МАЛЯРНЫЙ GIRPAINT • GRIFF MIT GIRPAINT--ROLLE



- Polyamide & acrylic roller with pile 9 mm
- Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints
- Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41263	30 x 100	6	1	50

7 ROLLER WITH FRAME

• РУЧКА И ВАЛИК МАЛЯРНЫЙ WELUR • GRIFF MIT WELUR-ROLLE



- The roller is designed for any varnishing works, is resistant to solvents • Can be used with solvent-based varnishes, water-based ones, thick varnishes and two-ingredient paints - e.g. epoxy or polyester paints • Long and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41248	30 x 100	6	1	50

8 ROLLER WITH FRAME

• РУЧКА И ВАЛИКИ МАЛЯРНЫЕ NYLON • GRIFF MIT NYLON--ROLLEN



- Short pile 7mm • Resistant to solvents
- Recommended for nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41242	10 x 100	6	2	75

9 ROLLER WITH FRAME

• РУЧКА И ВАЛИКИ МАЛЯРНЫЕ ELIKATOR • GRIFF MIT ELIKATOR--ROLLEN



- Professional roller for coating porous and uneven facades • The sleeve made from thick-woven textile, highly resistant to abrasion • The pile 15mm high
- Recommended for emulsion, acrylic, silicon and silicate paints • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41257	10 x 100	6	2	75

PROLINE

1 ROLLER WITH FRAME

• РУЧКА И ВАЛИКИ МАЛЯРНЫЕ REX OLIWKA
• GRGRIFF MIT REX OLIWKA ROLLEN



- The roller is recommended for economic emulsion and latex paints • Facade roller covered with polyamide-acrylic textile
- Recommended for coating inner and outer walls with facade paints • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41252	10 x 100	6	2	75

2 ROLLER WITH FRAME

• РУЧКА И ВАЛИКИ МАЛЯРНЫЕ SYNTEX • GRGRIFF MIT SYNTEX-ROLLEN



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Short and lightweight handle with steel wire Ø 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41267	10 x 100	6	2	75

3 ROLLER WITH FRAME

• РУЧКА И ВАЛИКИ МАЛЯРНЫЕ GIRPAINT • GRGRIFF MIT GIRPAINT-ROLLEN



- Polyamide & acrylic roller with pile 9 mm
- Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints
- Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41262	10 x 100	6	2	75

4 ROLLER WITH FRAME

• РУЧКА И ВАЛИКИ МАЛЯРНЫЕ WELUR • GRGRIFF MIT WELUR-ROLLEN



- The roller is designed for any varnishing works, is resistant to solvents • Can be used with solvent-based varnishes, water-based ones, thick varnishes and two-ingredient paints - e.g. epoxy or polyester paints • Short and lightweight handle with steel wire ∅ 6 mm

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41247	10 x 100	6	2	75

5 HANDLE AND ROLLERS SLEEVE

• ДЕРЖАТЕЛЬ И ВКЛАДЫШИ MOLTOPREN
• GRGRIFF UND MOLTOPREN-EINLAGEN



- The set includes one handle and 4 roller sleeves • The roller made from modified polyester foam designed for emulsion and oil paints, varnishes and joint compounds
- Thanks to its small size, designed for precision finishing works

Code	Dimension (mm)	Diameter (mm)	
41160	35 x 50	6	75
41161	35 x 70	6	75
41162	35 x 100	6	45

6 MINI ROLLER KIT

• МАЛЯРНЫЙ КОМПЛЕКТ МИНИ, ВКЛАДЫШИ NYLON
• MAMALERSET MINI, NYLON-EINLAGEN



- Short pile 7 mm • Resistant to solvents
- Recommended for nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins • The set includes short and lightweight handle with steel wire ∅ 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41244	6	2	25

7 MINI ROLLER KIT

• МАЛЯРНЫЙ КОМПЛЕКТ МИНИ, ВКЛАДЫШИ ELIKATOR
• MAMALERSET MINI, ELIKATOR-EINLAGEN



- Professional roller for coating porous and uneven facades • The sleeve made from thick-woven textile, highly resistant to abrasion
- The pile 15mm high • Recommended for emulsion, acrylic, silicon and silicate paints • The set includes: short and lightweight handle with steel wire Ø 6 mm, 2 sleeves sized 100 x 10 mm and a paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41259	6	2	25

8 MINI ROLLER KIT

• МАЛЯРНЫЙ КОМПЛЕКТ МИНИ, ВКЛАДЫШИ REX OLIWKA
• MAMALERSET MINI, REX OLIWKA EINLAGEN



- The roller is recommended for economic emulsion and latex paints • Facade roller, lined with PP foam 6 mm thick, covered with polyamide-acrylic textile • Recommended for coating inner and outer walls with facade paints • The set includes: short and lightweight handle with steel wire Ø 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41254	6	2	25

9 MINI ROLLER KIT

• МАЛЯРНЫЙ КОМПЛЕКТ МИНИ, ВКЛАДЫШИ SYNTEX
• MAMALERSET MINI, SYNTEX-EINLAGEN



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • The set includes: short and lightweight handle with steel wire ∅ 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41269	6	2	25

1 MINI ROLLER KIT

• МАЛЯРНЫЙ КОМПЛЕКТ МИНИ, ВКЛАДЫШИ GIRPAINT
• MALERSET MINI, GIRPAINT-EINLAGEN



- Polyamide & acrylic roller with pile 9mm
- Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints • The set includes short and lightweight handle with steel wire ∅ 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41264	6	2	25

2 MINI ROLLER KIT

• МАЛЯРНЫЙ КОМПЛЕКТ МИНИ, ВКЛАДЫШИ WELUR
• MALERSET MINI, WELUR-EINLAGEN



- The roller is designed for any varnishing works, is resistant to solvents • Can be used with solvent-based varnishes, water-based ones, thick varnishes and two-ingredient paints - e.g. epoxy or polyester paints • The set includes: short and lightweight handle with steel wire ∅ 6 mm, 2 sleeves sized 100 x 10 mm and paint tray sized 140 x 190 mm

Code	Diameter (mm)	Quantity in the pack	
41249	6	2	25

3 ROLLER SLEEVES

• ВАЛИКИ WESTAN • WESTAN-EINLAGEN

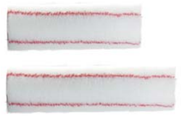


- The roller is recommended for emulsion and latex paints. • The roller is made from shaggy polyester yarn knitwear • Dedicated for simple painting works

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41140	50 x 180	8	1	50
41141	50 x 250	8	1	40

4 ROLLER SLEEVES

• ВАЛИКИ NYLON • NYLON-EINLAGEN

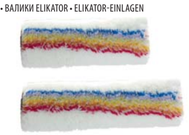


- Short pile 7mm • Resistant to solvents
- For nitro oil paints, chlorinated rubber based paints, polyvinyl paints, anti-corrosion paints, primers, two-ingredient paints, as well as sticky paints e.g. polyester and epoxy resins

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41240	10 x 100	6	2	200
41241	30 x 100	6	1	200
41148	50 x 180	8	1	50
41149	50 x 250	8	1	40

5 ROLLER SLEEVES

• ВАЛИКИ ELIKATOR • ELIKATOR-EINLAGEN

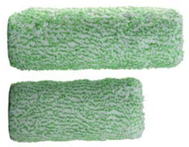


- Professional roller for coating porous and uneven facades • The sleeve made from thickwoven textile, highly resistant to abrasion
- The pile 15mm high • Recommended for emulsion, acrylic, silicon and silicate paints
- Recommended for inner and outer painting works

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41255	10 x 100	6	2	200
41256	30 x 100	6	1	200
41152	50 x 180	8	1	50
41153	50 x 250	8	1	40

6 ROLLER SLEEVES

• ВАЛИКИ REX OLIWKA • REX OLIWKA EINLAGEN



- Designed for coating large areas with emulsion and latex paints
- Facade roller with PP foam lining, 6mm thick, covered with polyamide and acrylic textile • Designed for ambitious amateurs, recommended for coating inner and outer walls with facade paints

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41250	10 x 100	6	2	200
41251	30 x 100	6	1	200
41156	70 x 180	8	1	30
41157	70 x 250	8	1	25

7 ROLLER SLEEVES

• ВАЛИКИ SYNTEX • SYNTEX-EINLAGEN



- All-purpose roller for professionals and ambitious amateurs • Recommended for emulsion and latex paints • Dedicated for effective painting of large surfaces

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41265	10 x 100	6	2	200
41266	30 x 100	6	1	200
41144	50 x 180	8	1	50
41145	50 x 250	8	1	40

8 ROLLER SLEEVES

• ВАЛИКИ GIRPAINT • GIRPAINT-EINLAGEN



- Polyamide & acrylic roller 9mm
- Designed for smooth surfaces, i.e. gypsum, gypsuboard • Recommended for coating with emulsion, latex, thixotropic and silicate paints

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41260	10 x 100	6	2	200
41261	30 x 100	6	1	200

9 ROLLER SLEEVES

• ВАЛИКИ WELUR • WELUR-EINLAGEN



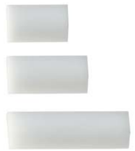
- The roller is designed for any varnishing works • Resistant to solvents
- Recommended for water-based varnishes, two-ingredient paints, epoxy and polyester paints

Code	Dimension (mm)	Diameter (mm)	Quantity in the pack	
41245	10 x 100	6	2	200
41246	30 x 100	6	1	200

PROLINE

1 ROLLER SLEEVES

• ВАЛИКИ МОЛТОРЕН • MOLTOPREN-EINLAGEN



• Roller made from modified polyester foam, recommended for emulsion and oil paints, varnishes and joint compounds • Thanks to its small size, designed for precision finishing works
• Sold in sets of 10 pcs.

Code	Dimension (mm)	Diameter (mm)	
41163	35 x 50	6	600
41164	35 x 70	6	500
41165	35 x 100	6	350

2 HANDLES

• РУЧКИ • GRIFF MIT NYLON-ROLLEN



• Lightweight plastic handle • Steel wire Ø 6 mm

Code	Size (mm)	Diameter (mm)	
41168	50	6	140
41169	70	6	140
41170	100	6	120

3 HANDLES

• РУЧКИ • GRGRIFF



• Lightweight plastic handle • Steel wire Ø 8 mm

Code	Size (mm)	Diameter (mm)	
41166	180	8	80
41167	250	8	50

4 PAINT TRAYS

• ВАННОЧКИ МАЛЯРНЫЕ • FARBWANNEN



• Plastic paint tray

Code	Dimension (mm)	
41171	120 x 190	500
41172	140 x 300	150
41173	240 x 320	50
41174	310 x 350	50

5 PAINT CRATES

• РЕШЕТКИ МАЛЯРНЫЕ • MALERGITTER



• Plastic paint mesh

Code	Dimension (mm)	
41175	180 x 210	350
41176	225 x 260	150
41177	260 x 310	100

6 PLASTIC PAINT MESH

• ВЁДРА МАЛЯРНЫЕ • MALEREIMER



• Rectangular plastic bucket • Wire handle
• Dedicated to inner works • The spout shaped in one of the corners

Code	Volume (l)	
41178	8	40
41179	12	20

7 TELESCOPIC PAINT POLE

• РУЧКА ТЕЛЕСКОПИЧЕСКАЯ МАЛЯРНАЯ • TELESKOPMALERS-TANGE

• For extending painter's tools

Code	Adjustment range (mm)	
41180	1000-2000	20

8 PAINTER'S DUST SHEETS

• ПЛЁНКИ МАЛЯРНЫЕ • MALERFOLIEN



• Painter's dust sheet sized 4 x 5 m

Code	Sheet type	Strength	Thickness (+/-10%) [µm]	
41136	HDPE	standard	0.7	40
41137	LDPE	strong	20	25
41138	LDPE	extra strong	40	10

9 MASKING PAPER TAPES

• ЛЕНТЫ МАЛЯРНЫЕ • MALERBAND



• Yellow paper tapes • Roll length 35 m

Code	Diameter (mm)	
41131	19	12/48
41132	25	6/36
41133	30	10/40
41134	38	6/24
41135	48	6/24

1 TILE SPACERS
• КРЕСТИКИ ДИСТАНЦИОННЫЕ • FUFUGENKREUZE



• Made from high quality materials

Code	Quantity in the packaging (pcs.)	Width (mm)	
61320	150	1,5	50
61321	150	2	50
61322	150	2,5	50
61323	100	3	50
61324	75	4	50
61325	75	5	50
61326	50	6	50
61327	30	8	50
61328	30	10	50

2 TILE SPACERS WITH HOLDER
• КРЕСТИКИ ДИСТАНЦИОННЫЕ С ДЕРЖАТЕЛЕМ
• FUFUGENKREUZE MIT GRIFF



• Made from high quality materials • Small dimensional tolerance • Handle facilitating removal from the slot

Code	Quantity in the packaging (pcs.)	Width (mm)	
61329	100	1.5	50
61330	70	2	50
61331	70	2.5	50
61332	70	3	50
61333	70	4	50
61334	70	5	50
61335	50	6	50
61336	50	8	50
61337	40	10	50

3 TILE WEDGES
• КЛИНЬЯ МАЛЫЕ • KEKEILE, KLEIN





• Designed for tile levelling
• Made from high quality materials

Code	Quantity in the packaging (pcs.)	Height/Width (mm)	
61344	100	23 x 5.3	200
61345	40	32.3 x 8	200

4 TILE CUTTER
• ЩИПЦЫ ДЛЯ РЕЗКИ ПЛИТКИ • FLIESENSCHNEIDZANGE



• Designed for tile breaking and cutting
• Cutting discs made from tungsten carbide YG-6X, coated with titanium • Coated handle to increase grip • The set includes • An allen wrench

Code	Length (mm)		
61661	200	x	6/48

5 JOINT SCRUBBER
• СКРЕБОК ДЛЯ ПЛИТОЧНЫХ ШВОВ • FUGENSCHABER



• Two-component handle ensures reliable grip
• Efficient blades with tungsten grit for joint scrubbing

Code	Length blade (mm)		
61662	50	x	10/60



6 JOINT SCRUBBER BLADES
• СМЕННЫЕ ЛЕЗВИЯ ДЛЯ СКРЕБКА ДЛЯ ПЛИТОЧНЫХ ШВОВ
• ERSATZKLINGEN FÜR FUGENSCHABER 61662



• Two effective tungsten-coated blades for grout removal • For scrubber 61662

Code	Length blade (mm)		
61663	50	x	50/400

7 PROFILE SAMPLERS
• ШАБЛОНЫ ГЕОМЕТРИЧЕСКИХ ФОРМ
• FORMSCHABLONEN





• Designed for mapping shapes in places difficult to reach • Graduation in inches and cm facilitating shape mapping

Code	Width (mm)		
61664	125	x	10/60
61665	250	x	10/40

8 SPONGE
• ГУБКА ДЛЯ ГЛАЗУРОВАНИЯ • FLIESENLEGERSCHWAMM



• The sponge is designed primarily for cleaning ceramic tiles after grouting, can be used also for washing and cleaning other surfaces

Code	Dimension (mm)	
61666	60 x 120 x 230	80

1 REINFORCED CAULKING GUN

- ПИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ МАСС УСИЛЕННЫЙ
- KARTUSCHENPISTOLE VERSTÄRKT



225ml | 225mm

- Designed for extrusion of silicone, glue and mass with increased density in tubes 225 mm long • Double guide ensuring precise piston guiding

Code	Size (mm)	
18008	225	6/12

2 CAULKING GUN

- ПИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ ГЕРМЕТИЧЕСКОЙ МАССЫ
- KARTUSCHENPISTOLE HALBSCHALE



300ml | 225mm

- Steel • Ratchet gear • Handle covered with non-slip material

Code	Size (mm)	
18004	225	24

3 CAULKING GUN

- ПИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ ГЕРМЕТИЧЕСКОЙ МАССЫ
- SKELETTKARTUSCHENPISTOLE



300ml | 225mm

- Steel and aluminium • Revolving tube holder

Code	Size (mm)	
18007	225	24

4 CAULKING GUN

- ПИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ ГЕРМЕТИЧЕСКОЙ МАССЫ
- SKELETTKARTUSCHENPISTOLE



300ml | 225mm

- Designed for extrusion of silicone and glue in tubes 225 mm long
- Frame made from steel flat section 2.5 mm thick

Code	Size (mm)	
18003	225	24

5 ALUMINIUM CAULKING GUN

- ПИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ ГЕРМЕТИЧЕСКОЙ МАССЫ АЛЮМИНИЕВЫЙ
- ALALU-KARTUSCHENPISTOLE



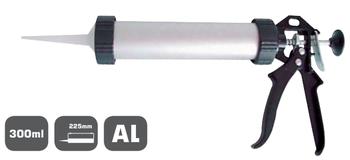
600ml | 370mm | Al

- Aluminium and steel caulking gun for sealing compound 600 ml
- Designed for dispensing glue and sealants in plastic packages, up to 600ml and cartouches 290-310ml • Durable and lightweight
- Rotating tube holder • Strong ratchet mechanism • Screwed-on tip
- Pusher 10mm thick • Aluminium container

Code	Size (mm)	
18010	370	20

6 ALUMINIUM CAULKING GUN

- ПИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ ГЕРМЕТИЧЕСКОЙ МАССЫ АЛЮМИНИЕВЫЙ
- ALU-KARTUSCHENPISTOLE



300ml | 225mm | Al

- Aluminium container • Ratchet mechanism

Code	Size (mm)	
18009	225	24

7 FOAM GUN

- ПИСТОЛЕТ ДЛЯ МОНТАЖНОЙ ПЕНЫ
- SCHAUMPISTOLE



PTFE

- Aluminium head • Ring and ball inside the head, made from PTFE, used as a check valve • Knob facilitating accurate control of foam stream
- Brass nozzle • Stainless steel needle • Lightweight body made from zinc alloy - galvanised • Two tips for application in places difficult to reach

Code	Size (mm)	
18016	340	20

8 FOAM GUN

- ПИСТОЛЕТ ДЛЯ МОНТАЖНОЙ ПЕНЫ
- SCHAUMPISTOLE



PTFE

- Brass head and nozzle • Brass knob facilitating accurate control of foam stream • Stainless steel needle • Two tips for application in places difficult to reach

Code	Size (mm)	
18015	330	10/20

1 FOAM GUN

• ПИСТОЛЕТ ДЛЯ МОНТАЖНОЙ ПЕНЫ • SCHAUMPISTOLE

PROLINE HD



PTFE

- Body and handle made from nickel-coated aluminium alloy - satin coating
- Two tips for application in places difficult to reach

Code	Size (mm)	
18017	340	20

2 FOAM GUN

• ПИСТОЛЕТ ДЛЯ МОНТАЖНОЙ ПЕНЫ • SCHAUMPISTOLE



METAL



- Metal body • Knob for foam stream control

Code	Size (mm)	
18013	340	20

3 FOAM GUN

• ПИСТОЛЕТ ДЛЯ МОНТАЖНОЙ ПЕНЫ
• SCHAUMPISTOLE



PTFE



- Metal body • Knob for foam stream control
- Head and applicator covered with PTFE - to facilitate gun cleaning

Code	Size (mm)	
18014	340	20



PROLINE®

1 F-TYPE CLAMPS WITH RATCHET

• СТОЛЯРНЫЕ СТРУБЦИНЫ, ТИП F С ХРАПОВЫМ МЕХАНИЗМОМ
• ZWINGE MIT RATSCHE

PROLINE HD



AL HRC 45±2

• Ratchet drive enabling to clamp the item quickly • Guide and arm - moving, forged • Handle made from aluminium alloy

Code	Dimension (mm)	
11420	200 x 140	2/8
11430	300 x 140	2/8
11440	400 x 140	2/6
11450	500 x 140	2/6
11460	600 x 140	2/6

2 F-TYPE CLAMPS WITH LOCK

• СТОЛЯРНЫЕ СТРУБЦИНЫ, ТИП F, С БЛОКИРОВКОЙ
• ZWINGE TYP F MIT VERRIEGELUNG



HRC 25±2

• Lock minimising jaw falling risk • Clamping screw with trapezoidal thread
• Plastic overlays protecting the material clamped

Code	Dimension (mm)	
11515	150 x 50	25/50
11525	250 x 50	25/50
11530	300 x 80	10/20
11531	300 x 120	5/10
11550	500 x 120	5/10
11580	800 x 120	6
11581	1000 x 120	6
11582	1500 x 120	4
11583	2000 x 120	4

3 F-TYPE CLAMPS

• СТОЛЯРНЫЕ СТРУБЦИНЫ, ТИП F • ZWINGE TYP F



• Quick action • Cast iron arms • Wooden handle
• Strip - steel, toothed, ensuring reliable sliding and locking • Plastic jaw overlays protecting clamped material against damage

Code	Dimension (mm)	
11215	150 x 50	50
11230	300 x 50	50
11232	300 x 80	25
11231	300 x 120	10
11251	500 x 120	10
11281	800 x 120	6
11282	1000 x 120	6
11283	1500 x 120	5
11284	2000 x 120	5

4 QUICK ACTION CLAMPS

• СТОЛЯРНЫЕ СТРУБЦИНЫ, ОДНОРУЧНЫЕ • EINHANDZWINGEN



• Plastic • Quick action • After jaw resetting, can be used as a distancing tool

Code	Dimension (mm)	
11315	150 x 60	6/24
11320	200 x 60	6/24
11330	300 x 60	6/24
11345	450 x 60	6/24
11360	600 x 60	6/24
11375	750 x 60	6/12
11390	900 x 60	6/12



1 „TURBO" HAND SAWS

• НОЖОВКИ TURBO • FUCHSSCHWANZSÄGEN - TURBO



TURBO CUT | HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert
- For rough cutting of wood and chipboard

Code	Size (mm)	Qty of teeth/ inch	
64340	400	7	12/48
64345	450	7	12/48
64350	500	7	12/24

2 „TURBO" HAND SAWS

• НОЖОВКИ TURBO • FUCHSSCHWANZSÄGEN - TURBO



TURBO CUT | HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert • For quick finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64440	400	10	12/48
64445	450	10	12/48
64450	500	10	12/24

3 „TURBO" HAND SAWS

• НОЖОВКИ TURBO • FUCHSSCHWANZSÄGEN - TURBO



TURBO CUT | PTFE | HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert
- PTFE-coated, offering small resistance in the process of cutting • For quick, rough cutting of wood and chipboard

Code	Size (mm)	Qty of teeth/ inch	
64360	400	7	12/48
64365	450	7	12/48
64370	500	7	12/24

4 HAND SAWS

• НОЖОВКИ • RANKINIAI PJŪKLAI

HRC 52±2



- Two-component handle made from plastic with non-slip insert • For rough cutting of wood and chipboard

Code	Size (mm)	Qty of teeth/ inch	
64740	400	7	12/48
64745	450	7	12/48
64750	500	7	12/24

5 HAND SAWS

• НОЖОВКИ • FUCHSSCHWANZSÄGEN

HRC 52±2



- Two-component handle made from plastic with non-slip insert • For finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64840	400	10	12/48
64845	450	10	12/48
64850	500	10	12/24

6 „TURBO" HAND SAWS

• НОЖОВКИ TURBO • FUCHSSCHWANZSÄGEN - TURBO



TURBO CUT | HRC 52±2

- Wooden handle with rubber overlay
- For quick finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64390	400	10	12/24
64391	450	10	12/24
64392	500	10	12/24

7 BACK SAWS

• ШЛИЦОВКИ • FEINSÄGE



HRC 52±2

- Two-component handle made from plastic with non-slip insert • For finishing cutting, for wood, chipboard, plywood, laminate and plastic

Code	Size (mm)	Qty of teeth/ inch	
64400	300	10	12/48
64405	350	12	12/48

8 SAWS FOR CELLULAR CONCRETE

• НОЖОВКИ ДЛЯ ГАЗОБЕТОНА • SÄGEN FÜR LEICHTBETONSTEINE

HRC 52±2



- Large teeth • Every second tooth made from sintered carbide

Code	Size (mm)	Total number of teeth	Number of carbide teeth	
64560	600	35	17	5/20
64570	700	39	19	5/20

9 WALL BOARD SAW

• НОЖОВКА ДЛЯ ГИПСОКАРТОННЫХ ПЛИТ
• GIPSKARTONSÄGEN



HRC 52±2

- Two-component handle made from non-slip material • Replaceable blade

Code	Size (mm)	Qty of teeth/ inch	
64460	150	7	10/60

10 WALL BOARD SAW

• НОЖОВКА ДЛЯ ГИПСОКАРТОННЫХ ПЛИТ
• GIPSKARTONSÄGEN



HRC 52±2

- Two-sided teeth sharpening • Teeth induction quenching • Blade for easy cutting of a hole

Code	Size (mm)	Qty of teeth/ inch	
64465	150	10	10/60

11 COMPASS SAW

• УЗКАЯ НОЖОВКА
• HAND-STICHSÄGE



HRC 52±2

- Two-component handle made from plastic with non-slip insert

Code	Size (mm)	Qty of teeth/ inch	
64420	300	7	10/60

12 UNIVERSAL SAW

• САДОВАЯ СКЛАДНАЯ НОЖОВКА
• UNIVERSAL SÄGE



HRC 52±2

- Aggressive teeth with 3 ground cutting edges for quick cutting • Two-component handle made from plastic with non-slip insert
- Replaceable blade

Code	Size (mm)	Qty of teeth/ inch	
64470	180	7	12/48

PROLINE

1 BOW SAWS
• ЛУЧКОВЫЕ ПИЛЫ • BÜGELSÄGE



HRC 52±2

• Flattened frame • American teeth, quenched

Code	Size (mm)	
64053	530	24
64061	610	24
64076	760	24

2 BLADES FOR BOW SAW
• ПОЛОТНА ДЛЯ ЛУЧКОВОЙ ПИЛЫ
• SÄGEBLÄTTER FÜR BÜGELSÄGEN



• American, induction-quenched teeth
• For saws: 64053, 64061, 64076

Code	Size (mm)	
64105	530	50/200
64106	610	50/200
64107	760	50/200

3 BOW SAW
• БУГЕЛЬНАЯ ЛУЧКОВАЯ ПИЛА • BÜGELSÄGE



HRC 52±2

• The set includes 3 blades: for wood, metal and PVC

Code	Size (mm)	
64433	300	24

4 BOW SAW
• БУГЕЛЬНАЯ ЛУЧКОВАЯ ПИЛА
• BÜGELSÄGE



• Supplied with 2 blades: for wood - with American, induction-quenched teeth and for metal and PVC, made from carbon steel
• Hand cover

Code	Size (mm)	
64132	300	12/24

5 HACKSAW FRAME WITH ADJUSTABLE BOW
• БУГЕЛЬНАЯ ЛУЧКОВАЯ ПИЛА ПО МЕТАЛЛУ • METALLBÜGELSÄGE MIT VERSTELLBAREM BÜGEL



• Structure enables to turn the bow and cut in places difficult to reach • Two methods of bow fixing

Code	Size (mm)	Qty of teeth/ inch	
23121	300	24	6/36



6 HACKSAW FRAME
• НОЖОВКА ПО МЕТАЛЛУ • METALLBÜGELSÄGE



AL

• Two blade positions • Aluminium handle
• Compartment for spare blades

Code	Size (mm)	
23120	300	6/48

7 HACKSAW FRAME
• БУГЕЛЬНАЯ ЛУЧКОВАЯ ПИЛА ПО МЕТАЛЛУ
• METALLBÜGELSÄGE



BI-METAL

• Frame made from steel flat section 7 mm thick • Wooden, varnished handle • Two methods of blade fixing

Code	Size (mm)	Qty of teeth / inch	
23123	300	24	12

1 STRAIGHT SPADE, METAL SHAFT

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА, СТАЛЬНАЯ РУКОЯТКА • GERADER SPATEN, METALLSTIEL



• Plastic-coated shaft • Coated with hammer-effect varnish
• Ergonomic two-composite handle

HRC 45±2

Code	Dimension (mm)	
14371	1150 x 195 x 290	6

2 SHARP SPADE, METAL SHAFT

• ШТЫКОВАЯ ЛОПАТА, МЕТАЛЛИЧЕСКАЯ РУЧКА, ПРЕМИУМ • SPITZER SPATEN, METALLSTIEL



• Plastic-coated shaft
• Coated with hammer-effect varnish
• Ergonomic two-composite handle

HRC 45±2

Code	Dimension (mm)	
14372	1150 x 190 x 290	6

3 SAND SHOVEL, METAL SHAFT

• ЛОПАТА ДЛЯ ПЕСКА С МЕТАЛЛИЧЕСКИМ ЧЕРЕНКОМ, ПРЕМИУМ
• SANDSCHAUFEL, METALLSTIEL



• Shaft coated with plastic
• Coated with hammer-effect varnish
• Ergonomic two-composite handle

HRC 45±2

Code	Dimension (mm)	
14373	1250 x 230 x 320	6

4 STRAIGHT SPADE, WOODEN SHAFT

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА, ДЕРЕВЯННАЯ РУЧКА
• GERADER SPATEN, HOLZSTIEL



HRC 45±2

Code	Dimension (mm)	
12374	1150 x 180 x 280	6

5 STRAIGHT SPADE, METAL SHAFT

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА, МЕТАЛЛИЧЕСКАЯ РУЧКА
• GERADER SPATEN, METALLSTIEL



• Shaft coated with plastic

HRC 45±2

Code	Dimension (mm)	
12371	1150 x 190 x 290	6

6 STRAIGHT SPADE, FIBREGLASS SHAFT

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА, РУЧКА ИЗ СТЕКЛОВОЛОКНА
• GERADER SPATEN, GLASFASERSTIEL



• Improved shaft resistance

HRC 45±2

Code	Dimension (mm)	
12377	1150 x 180 x 280	6

7 SHARP SPADE, WOODEN SHAFT

• ШТЫКОВАЯ ЛОПАТА, ДЕРЕВЯННАЯ РУЧКА • SPITZER SPATEN, HOLZSTIEL



HRC 45±2

Code	Dimension (mm)	
12375	1150 x 180 x 280	6

8 SHARP SPADE, METAL SHAFT

• ШТЫКОВАЯ ЛОПАТА, МЕТАЛЛИЧЕСКАЯ РУЧКА
• SPITZER SPATEN, METALLSTIEL



• Shaft coated with plastic

HRC 45±2

Code	Dimension (mm)	
12372	1150 x 190 x 290	6

9 SHARP SPADE, FIBREGLASS SHAFT

• ШТЫКОВАЯ ЛОПАТА, РУЧКА ИЗ СТЕКЛОВОЛОКНА
• SPITZER SPATEN, GLASFASERSTIEL



• Improved shaft resistance

HRC 45±2

Code	Dimension (mm)	
12378	1150 x 180 x 280	6

10 SAND SHOVEL, WOODEN SHAFT

• СОВКОВАЯ ЛОПАТА, ДЕРЕВЯННАЯ РУЧКА
• SANDSCHAUFEL, HOLZSTIEL



• Improved shaft resistance

HRC 45±2

Code	Dimension (mm)	
12376	1250 x 250 x 280	6

1 SAND SHOVEL, METAL SHAFT

• СОВКОВАЯ ЛОПАТА, МЕТАЛЛИЧЕСКАЯ РУЧКА
• SANDSCHAUFEL, METALLSTIEL



HRC 45±2

• Shaft coated with plastic

Code	Dimension (mm)	
12373	1250 x 230 x 320	6

2 SAND SHOVEL, FIBREGLASS SHAFT

• СОВКОВАЯ ЛОПАТА, РУЧКА ИЗ СТЕКЛОВОЛОКНА
• SANDSCHAUFEL, GLASFASERSTIEL



HRC 45±2

• Improved shaft resistance

Code	Dimension (mm)	
12379	1250 x 250 x 280	6

3 ALUMINIUM SAND SHOVEL, EXTRA LIGHT

• АЛЮМИНИЕВАЯ СОВКОВАЯ ЛОПАТА, СУПЕР ЛЁГКАЯ
• ALU-SCHAUFEL, EXTRA LEICHT



kg 1,0 AL

• Excellent ergonomics

Code	Dimension (mm)	
12391	1230 x 250 x 320	12



4 AXES

• ТОПОРЫ • ÄXTE

PROLINE HD



• Forged and quenched head, covered with non-stick Teflon coat
• Shaft made from composite reinforced with glass fiber
• Non-slip TPR handle • Model 12840-12854 - special blade shape facilitating trunk cleaving • Model 12836 -universal blade for preparing small wood pieces • Practical case for storage and transport

Code	Weight (g)	Length (mm)	
12836	640	360	12/24
12840	1000	455	6/12
12843	1300	605	6/12
12846	1600	725	4/8
12854	2400	775	2/4

5 AXES

• ТОПОРЫ • ÄXTE

PROLINE HD



GENUINE HICKORY · DIN 5131 · DIN 7294

• Forged and quenched head • Shaft and head connection by a wooden wedge and steel bushing • Rubber blade protection • Varnished shaft, made from American hiccory hardwood • Rough, non-slip handle

Code	Weight (g)	Length (mm)	
12726	600	360	24
12728	800	380	24
12731	1000	430	16
12732	1250	700	10
12734	1400	700	10
12736	1600	800	10

6 SPLITTING AXES

• ТОПОРЫ - КОЛУНЫ • SPALTÄXTE

PROLINE HD



GENUINE HICKORY

• Forged and quenched head • Special blade shape faciltating trunk cleaving
• Shaft and head connection by a wooden wedge and steel bushing • Rubber blade protection • Varnished shaft, made from American hiccory hardwood
• Rough, non-slip handle

Code	Weight (g)	Length (mm)	
12741	1000	430	12
12742	2000	800	6

1 AXES

• ТОПОРЫ • ÄXTE



DIN 7287 | HRC 52±2

• Forged and quenched head • Rubber blade guard

Code	Weight (g)	Length (mm)	
12706	600	360	24
12708	800	380	24
12710	1000	430	16
12712	1250	700	10
12716	1600	800	10

2 AXES

• ТОПОРЫ • ÄXTE



75% GRP | DIN 7287 | HRC 52±2

• Forged and quenched head • Rubber blade protection • Two-composite, non-slip TPR handle

Code	Weight (g)	Length (mm)	
12866	600	360	24
12868	800	380	24
12870	1000	430	24
12872	1250	700	12
12876	1600	800	12

3 AXES

• ТОПОРЫ • ÄXTE



GRP | DIN 7287 | HRC 52±2

• Rubber blade guard • Non-slip TPR handle

Code	Weight (g)	Length (mm)	
12806	600	360	20
12808	800	380	20
12810	1000	430	16
12812	1250	700	8
12816	1600	800	6
12820	2000	900	6

4 SPLITTING AXE

• КОЛУН • SPALTAXT



GRP | HRC 52±2

• Special blade shape facilitating trunk cleaving • Forged and quenched head • Non-slip TPR handle • Rubber blade protection

Code	Weight (g)	Length (mm)	
12821	2000	800	6



5 SPLITTING MAUL

• ТОПОР - КОЛУН • SPALTHAMMER



2,7 kg | 70% GRP

• Forged and quenched heat treated • Rubber collar protecting the handle against damage • Rubber blade protection
• Shaft made of high quality fiberglass • Cone-shaped shaft
• Two-composite, non-slip TPR handle

Code	Weight (g)	Length (mm)	
12825	2700	900	**6**

6 SPLITTING MAUL

PROLINE HD

• ТОПОР - КОЛУН • SPALTHAMMER



3,0 kg | GENUINE HICKORY | DIN 5129

• Forged and quenched head • Shaft and head connection by a wooden wedge and two steel bushings • Protection cover for the blade made from artificial leather • Varnished shaft, made from American hiccory hardwood • Rough, non-slip handle

Code	Weight (g)	Length (mm)	
12803	3000	900	6

1 FLAT COLD CHISELS

• ЗУБИЛА С ПРОТЕКТОРОМ
• MAURERMEISSEL MIT SCHUTZ



HRC 48±2

- Quenched • High-quality tool steel
- PVC cover

Code	Length (mm)	Width (mm)	
31325	250	16	5/50
31330	300	16	5/50
31339	300	19	5/20
31340	400	19	5/20

2 POINT COLD CHISELS

• КЕРНЫ С ПРОТЕКТОРОМ
• LOCHEISEN MIT SCHUTZ



HRC 48±2

- Quenched • High-quality tool steel
- PVC cover

Code	Length (mm)	
31350	250	5/50
31353	300	5/20
31355	400	5/20

3 WRECKING BARS

• ГВОЗДОДЕРЫ • NAGELEISEN



HRC 49±3

Code	Length (mm)	Width (mm)	
31364	400	17	5
31365	500	17	5
31366	600	17	5
31367	700	17	5
31368	800	19	5
31370	1000	19	5

4 POINT CROWBARS

• СТРОИТЕЛЬНЫЕ ЛОМЫ • BAUBRECHSTANGEN



HRC 49±3

Code	Length (mm)	Width (mm)	
31372	1200	25	4
31373	1500	25	4
31374	1600	25	3

5 CHISEL AND PUNCH SET

• НАБОР ПРОБОЙНИКОВ, ЗУБИЛ И КЕРНЕРОВ • AUSTREIBDORNE-, MEISSEL- UND KÖRNERSÄTZE



CrV HRC 55±2

- Plastic tool organizer
- The set contains:
  - Center punch: 100 mm x 6 mm, 115 mm x 8 mm
  - taper pin punch 140 mm x 2 mm
  - Chisels: 140 mm x 10 mm, 150 mm x 12 mm, 170 mm x 16 mm
  - Parallel punches: 150 mm x 8 mm, 150 mm x 6 mm, 150 mm x 5 mm, 150 mm x 4 mm, 150 mm x 3 mm, 150 mm x 1.5 mm

Code	Quantity (pcs.)		
31361	12	x	3/12

6 CHISEL AND PUNCH SET

• НАБОР ПРОБОЙНИКОВ, ЗУБИЛ И КЕРНЕРОВ • AUSTREIBDORNE-, MEISSEL- UND KÖRNERSÄTZE



CrV HRC 55±2

- Plastic tool organizer
- The set contains:
  - center punch 115 mm x 8 mm
  - taper pin punch 140 mm x 2 mm
  - Chisels: 140 mm x 10 mm, 150 mm x 12 mm
  - Parallel punches: 150 mm x 6 mm, 150 mm x 3 mm

Code	Quantity (pcs.)		
31362	6	x	3/24

7 CHISEL AND PUNCH SET

• НАБОР ПРОБОЙНИКОВ, ЗУБИЛ И КЕРНЕРОВ • AUSTREIBDORNE-, MEISSEL- UND KÖRNERSÄTZE



CrV HRC 52±2

- Chromium-plated • Polished • Plastic tool organizer
- The set contains:
  - center punch 120 mm x 4mm
  - taper pin punch 120 mm x 3 mm
  - Star-pointed chisel 130 mm x 5 mm
  - Flat chisel 130 mm x 12 mm
  - Parallel punches 150 mm x 4 mm

Code	Quantity (pcs.)		
31360	5	x	5/40

8 CHISEL SET

• НАБОР ЗУБИЛ • MEISSEL-SATZ



CrV HRC 55±2

- Plastic tool organizer • The set contains:
  - center punches: 140mm x 10mm, 150mm x 12mm, 170mm x 16mm

Code	Quantity (pcs.)		
31363	3	x	3/24

9 COLD CHISEL

• ЗУБИЛО • MEISSEL



CrV HRC 55±2

Code	Dimensions (mm)		
31358	150 x 12	x	3/24

1 PIN PUNCH
• ПРОБОЙНИК • AUSTREIBDORN



CrV | HRC 55±2

Code	Dimensions (mm)		
31352	150 x 4	x	3/24

2 TAPER PUNCH
• ДОБОЙНИК • DURCHTREIBER



CrV | HRC 55±2

Code	Dimensions (mm)		
31354	140 x 2	x	3/24

3 CENTER PUNCH
• КЕРНЕР • KÖRNER



CrV | HRC 55±2

Code	Dimensions (mm)		
31356	100 x 6	x	3/24

4 CENTER PUNCH
• КЕРНЕР • KÖRNER



CrV | HRC 44±2

- Made from high quality materials, CrV steel
- Clip handle enabling to hang on a garment pocket • Diameter 8 mm • Packed in a blister • For marking stone, metal, metal sheets

Code	Dimensions (mm)		
31385	125 x 8	x	12/96

5 MARKING TOOL
• ЧЕРТИЛКА РАЗМЕТОЧНАЯ • REISSNADEL CARBONSTAHL



- Made from high-quality HM steel, blade from TCT sintered carbide • Rubber blade protection preventing accidental cutting or damage
- Clip handle enabling to hang on a garment pocket • Hexagonal quenched 20HRC handle
- Blade protected with plastic casing
- For marking tiles, stone, glass, steel

Code	Length (mm)		
31382	145	x	24/144

6 PUNCH SETS
• НАБОР ПРОБОЙНИКОВ ДЛЯ КОЖИ • LOCHEISENSÄTZE FÜR LEDER



- For cutting holes in various materials
- Sets available in the following sizes: **32020:** 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0 mm
- **32021:** 2.0, 2.5, 3.2, 4.0, 4.8, 5.5, 6.4, 8.0, 9.5, 11.1, 12.7, 14.0, 15.8, 19.0, 22.0 mm

Code	Quantity (pcs.)	Diameter (mm)		
32020	9	2.5 - 10.0	x	50
32021	15	2.0 - 22.0	x	16

7 BUILDERS LINE
• ШНУР МАЛЯРНЫЙ • SCHLAGSCHNUR



- Plastic housing • Quick string winding

Code	Length (m)		
38003	30	x	10/100

8 CHALK LINE REFILLS
• КРАСКИ ДЛЯ МАЛЯРНОГО ШНУРА • SCHLAGSCHNURKREIDE



- Plastic dispenser

Code	Volume (ml)	Colour	
42005	115		10/60
42006	115		10/60
42007	225		10/60
42008	225		10/60

9 SUCTION LIFTER
• ДЕРЖАТЕЛЬ- присоска ДЛЯ СТЕКЛА
• SAUGHEBER



Ø 120mm | max 80kg

Code	Holder diameter (mm)	Loading (kg)		
32203	2 x 120	80	x	20

10 SUCTION LIFTER
• ДЕРЖАТЕЛЬ-ПРИСОСКА ДЛЯ СТЕКЛА • SAUGHEBER



Ø 120mm | max 40kg

Code	Holder diameter (mm)	Loading (kg)		
32202	120	40	x	12/48

11 GLASS CUTTER
• СТЕКЛОРЕЗ • UNIVERSAL GLASSCHNEIDER



- 6 sintered carbide discs
- Wooden handle

x6

Code	Number of wheels		
32206	6	x	12/480

12 WINDOW SCRAPER
• СКРЕБОК ДЛЯ СТЕКЛА • SCHEIBENKRATZER



300mm | 100mm

- Replaceable blade

Code	Length (mm)		
31160	300	x	10/100

13 SPARE BLADES FOR WINDOW SCRAPER
• ЗАПАСНЫЕ ЛЕЗВИЯ ДЛЯ СКРЕБКА
• ERSATZKLINGEN FÜR SCHEIBENKRATZER



x10 | 14x100mm

- 10 blades in a box with a dispenser
- For 31160 scraper

Code	Blade (mm)		
31163	100	x	20/200

14 CENTERING POINTS
• РАЗМЕТЧИКИ ДЛЯ НАГЕЛЬНЫХ СОЕДИНЕНИЙ
• DÜBELHILFE



x4 | Ø 8mm | CENTRE

- Made from high quality materials • Sharp cones for marking • Designed for mapping openings on the fixing surface

Code	Diameter (mm)		
31392	8	x	50/100

1 "MINI" PERMANENT MARKERS

• МАРКЕРЫ НЕСТИРАЕМЫЕ "MINI" • „MINI" PERMANENTMARKER



PERMANENT MARKER · MINI

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete
- Round tip with a small head for a narrow, clean, and permanent line • Cap with a pendant • Shelf life: 2 years from the date of manufacture • Sold in an 80 pcs jar (38049 and 38043 is one piece)

Code	Colour	Quantity (pcs.)	
38049	black	80	160/960
38043	black, blue, red, green	80	160/960

2 "BULLET" PERMANENT MARKERS

• МАРКЕРЫ НЕСТИРАЕМЫЕ С КРУГЛЫМ КОНЦОМ
• „BULLET" PERMANENTMARKER



PERMANENT MARKER · ROUND TIP

- Permanent markers designed for drawing on various surfaces, such as: metal, plastic, wood, concrete • Round tip with a small head for a narrow, clean, and permanent line • Shelf life: 2 years from the date of manufacture • Sold in a 45 pcs jar (38039 and 38033 is one piece)

Code	Colour	Quantity (pcs.)	
38039	black	45	90/720
38033	black, blue, red, green	45	90/720

3 "MINI" PERMANENT MARKERS

• МАРКЕРЫ НЕСТИРАЕМЫЕ "MINI" • "MINI" PERMANENTMARKER



PERMANENT MARKER · MINI

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete
- Round tip with a small head for a narrow, clean, and permanent line • Cap with a pendant • Shelf life: 2 years from the date of manufacture

Code	Colour	Quantity (pcs.)	
38041	black, blue, red, green	4	24/144

4 "BULLET" PERMANENT MARKERS

• МАРКЕРЫ НЕСТИРАЕМЫЕ С КРУГЛЫМ КОНЦОМ
• „BULLET" PERMANENTMARKER



PERMANENT MARKER · ROUND TIP

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete • Round tip with a small head for a narrow, clean, and permanent line • Cap with a pendant • Shelf life: 2 years from the date of manufacture

Code	Colour	Quantity (pcs.)	
38031	black, blue,red	3	72/144

5 "BULLET" PERMANENT MARKERS

• МАРКЕРЫ НЕСТИРАЕМЫЕ С КРУГЛЫМ КОНЦОМ
• „BULLET" PERMANENTMARKER



PERMANENT MARKER · ROUND TIP

- Marker pens for writing on various surfaces such as metal, plastics, wood, and concrete
- Round tip with a small head for a narrow, clean, and permanent line • Shelf life: 2 years from the date of manufacture

Code	Colour	Quantity (pcs.)	
38032	black	2	24/192

6 PENCILS

• СТРОИТЕЛЬНЫЕ КАРАНДАШИ
• BLEISTIFTE



- Length 24 cm • For various applications: woodworking - white, bricklaying - green, for glass - yellow, for wet surfaces - navy blue

Code	Type	Colour	
38020	bricklaying		144/1008
38021	woodworking		144/1008
38022	for glass		144/1008
38023	for wet surfaces		144/1008

7 PENCIL SHARPENER

• ТОЧИЛКА ДЛЯ КАРАНДАШЕЙ • BLBLEISTIFFTSPITZER



- Plastic body • Blade can be sharpened

Code		
38000	x	12/72

8 CARPENTER'S PENCILS

• КАРАНДАШИ ДЛЯ СТОЛЯРНЫХ РАБОТ
• SCHREINERBLEISTIFTE



Code	Quantity (pcs.)		
38202	2	x	24/480

9 CARPENTER'S PENCILS

• КАРАНДАШИ ДЛЯ СТОЛЯРНЫХ РАБОТ
• SCHREINERBLEISTIFTE



Code	Quantity (pcs.)		
38212	12	x	10/120

10 CARPENTER'S PENCILS

• КАРАНДАШИ ДЛЯ СТОЛЯРНЫХ РАБОТ
• SCHREINERBLEISTIFTE



Code	Quantity (pcs.)		
38244	144	x	10

11 MASONRY PENCILS

• КАРАНДАШИ ДЛЯ КАМНЯ • MAURERBLEISTIFTE



Code	Quantity (pcs.)		
38102	2	x	24/480

12 MASONRY PENCILS

• КАРАНДАШИ ДЛЯ КАМНЯ
• MAURERBLEISTIFTE



Code	Quantity (pcs.)		
38112	12	x	10/120

13 MASONRY PENCILS

• КАРАНДАШИ ДЛЯ КАМНЯ
• MAURERBLEISTIFTE



Code	Quantity (pcs.)		
38144	144	x	10

1 BOLT CUTTERS
• БОЛТОРЕЗЫ • BOLZENSCHNEIDER



CrMo

Code	Size (mm)	Max cutting diameter (mm)	
17414	350	6	24
17418	450	7	2/8
17424	600	10	6
17430	750	12	4
17436	900	14	4
17442	1050	16	2

• Quenched • Jaws made from CrMo steel
• Jaw pressure adjustment • Ergonomic handles

2 AVIATION SNIPS
• РЫЧАЖНЫЕ НОЖНИЦЫ ПО МЕТАЛЛУ • BLECHSCHERE



CrMo

• For cutting standard metal sheet, up to 1.5 mm thick • Ergonomic handles from two-component material

Code	Size (mm)	Type		
17381	250	straight line	x	12/36
17382	250	right	x	12/36
17383	250	left	x	12/36

3 OFFSET SNIPS
• РЫЧАЖНЫЕ НОЖНИЦЫ ПО МЕТАЛЛУ
• MASCHINENSCHRAUBSTOCK GEBOGEN



CrMo

• Offset jaw • For cutting standard metal sheet, up to 1.2 mm thick • Ergonomic handles

Code	Size (mm)	Type		
17370	240	right/straight line	x	12/36
17371	240	left/straight line	x	12/36

4 AVIATION SNIPS
• РЫЧАЖНЫЕ НОЖНИЦЫ ПО МЕТАЛЛУ • BLECHSCHERE



CrV

• For cutting standard metal sheet, up to 1.5 mm thick • Ergonomic handles

Code	Size (mm)	Type		
17375	250	right	x	12/48
17376	250	left	x	12/48
17377	250	straight line	x	12/48

5 AVIATION SNIPS
• НОЖНИЦЫ ПО МЕТАЛЛУ • DURCHLAUFBLECHSCHEREN



17384

17385

CrMo

Code	Size (mm)	Type		
17384	235	short straight line	x	6/48
17385	290	long straight line	x	6/36

6 VERTICAL TIN SNIPS
• НОЖНИЦЫ ПО МЕТАЛЛУ • VERTIKALE BLECHSCHERE



17386



17387

CrMo 90°

Code	Size (mm)	Type		
17386	220	right	x	6/36
17387	220	left	x	6/36

1 METAL-SHEET BENDING PLIERS

• КЛЕЩИ ДЛЯ РЕЗКИ ЛИСТОВОГО МЕТАЛЛА • METALLBLECHBIEGEZANGE



17391

180°



17393

90°



17392

45°

• Jaw opening 60 mm

Code	Size (mm)	
17391	280	10 / 20
17392	280	10 / 20
17393	260	10 / 20

2 CORNER VICE

• ТИСКИ МАШИННЫЕ УГЛОВЫЕ • MASCHINENSCHRAUBSTOCK, WINKEL





• Made from high quality aluminium alloy • Foldable, two-component handles increasing the torque • Buttons in the casing for quick clamp release • Trapezoid thread • Installation aid when bonding bevel joints 90°

Code	Size (mm)	box	
31383	68	x	12

3 FIXED BENCH VICES

• СЛЕСАРНЫЕ ТИСКИ НЕПОВОРОТНЫЕ • MASCHINENSCHRAUBSTOCK FEST



• With an anvil • Fixed base

Code	Jaw opening (mm)	Weight (kg)	box	
25507	75	4.0	x	4
25510	100	6.0	x	2
25512	125	8.5	x	2
25515	150	14.5	x	1

4 SWIVEL BENCH VICES

• СЛЕСАРНЫЕ ТИСКИ ПОВОРОТНЫЕ • MASCHINENSCHRAUBSTOCK DREHBAR



• With an anvil • Revolving base

Code	Jaw opening (mm)	Weight (kg)	box	
25610	100	6.5	x	2
25612	125	9.0	x	2
25615	150	16.5	x	1

1 FLAT ENGINEERING FILES

• НАПИЛЬНИКИ СЛЕСАРНЫЕ ПЛОСКИЕ • FLACHFEILEN



HRC 62±2

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32134	150	x	6/36
32135	200	x	6/36
32136	250	x	6/36

2 HALF ROUND ENGINEERING FILES

• НАПИЛЬНИКИ СЛЕСАРНЫЕ ПОЛУКРУГЛЫЕ
• HALBRUNDFEILEN



HRC 62±2

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32234	150	x	6/36
32235	200	x	6/36
32236	250	x	6/36

3 THREE SQUARE ENGINEERING FILES

• НАПИЛЬНИКИ СЛЕСАРНЫЕ ТРЕУГОЛЬНЫЕ
• DREIECKSFEILEN



HRC 62±2

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32244	150	x	6/36
32245	200	x	6/36
32246	250	x	6/36

4 ROUND ENGINEERING FILES

• НАПИЛЬНИКИ СЛЕСАРНЫЕ КРУГЛЫЕ
• RUNDFEILEN



HRC 62±2

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32354	150	x	6/36
32355	200	x	6/36
32356	250	x	6/36

5 SQUARE ENGINEERING FILES

• НАПИЛЬНИКИ СЛЕСАРНЫЕ КВАДРАТНЫЕ • VIERKANTFEILEN



HRC 62±2

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32364	150	x	6/36
32365	200	x	6/36
32366	250	x	6/36

6 ENGINEERING FILE SET

• НАБОР СЛЕСАРНЫХ НАПИЛЬНИКОВ • FEILEN-SATZ



200 mm HRC 62±2

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Quantity (pcs.)		
32255	3	x	8

7 ENGINEERING FILE SET

• НАБОР СЛЕСАРНЫХ НАПИЛЬНИКОВ
• FEILEN-SATZ



200 mm HRC 62±2

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Quantity (pcs.)		
32265	5	x	8

8 FLAT RASP

• РАШПИЛЬ ПЛОСКИЙ • HOLZRASPEL FLACH



HRC 41±3

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32932	200	x	6/36

9 HALF ROUND RASP

• РАШПИЛЬ ПОЛУКРУГЛЫЙ • HOLZRASPEL HALBRUND

HRC 41±3

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32922	200	x	6/36

10 HOLZRASPEL RUND

• РАШПИЛЬ КРУГЛЫЙ • HOLZRASPEL RUND



HRC 41±3

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Size (mm)		
32962	200	x	6/36

11 RASP SET

• НАБОР РАШПИЛЕЙ • HOLZRASPEL-SATZ



200 mm HRC 41±3

- High-quality tool steel • Cut no. 2
- Two-composite, non-slip TPR handle

Code	Quantity (pcs.)		
32942	3	x	8

PROLINE

1 DIAMOND FILE SET
• НАБОР АЛМАЗНЫХ НАДФИЛЕЙ • DIAMANTFEILEN-SATZ



140 mm



• Plastic handle • In a case

Code	Quantity (pcs.)	Diameter (mm)		
32015	5	4	x	50/100

2 WOOD CHISELS
• СТАМЕСКИ • HOLZMEISSEL



CrV HRC 60±2

• Steel reinforcement for slogging
• Two-composite, non-slip TPR handle

Code	Blade width (mm)		
19106	6	x	6/24
19108	8	x	6/24
19110	10	x	6/24
19112	12	x	6/24
19114	14	x	6/24
19116	16	x	6/24
19118	18	x	6/24
19120	20	x	6/24
19122	22	x	6/24
19125	25	x	6/24
19132	32	x	6/24
19138	38	x	6/24

3 WOOD CHISEL SET
• НАБОР СТАМЕСОК • HOLZMEISSEL-SATZ



CrV HRC 60±2

• Steel reinforcement for slogging
• Two-composite, non-slip TPR handle

Code	Width (mm)		
19142	6, 12, 20, 25	x	8

4 SCRAPER
• РУБАНОК-СКРЕБОК • ABSTREIFER



140x40 mm

Code	Length (mm)		
31601	140	x	6 / 60

5 SCRAPER
• РУБАНОК-СКРЕБОК • ABSTREIFER



250x40 mm

Code	Length (mm)		
31602	250	x	6 / 60

6 SCRAPER
• РУБАНОК-СКРЕБОК • ABSTREIFER



AL 140x40 mm

Code	Length (mm)		
31611	140	x	10/60

7 SCRAPER
• РУБАНОК-СКРЕБОК • ABSTREIFER



AL 250x40 mm

• The handle may be blocked in two positions

Code	Length (mm)		
31612	250	x	10/40

8 BLADE FOR SCRAPER
• ЛЕЗВИЕ ДЛЯ РУБАНКА-СКРЕБКА • MESSER FÜR ABSTREIFER



140x40 mm

• Universal dimension fits Proline 31601, 31611 and other scrapers on the market

Code	Weight (g)		
31621	140	x	10/200

9 BLADE FOR SCRAPER
• ЛЕЗВИЕ ДЛЯ РУБАНКА-СКРЕБКА • MESSER FÜR ABSTREIFER



250x40 mm

• Universal dimension fits Proline 31602, 31612 and other scrapers on the market

Code	Length (mm)		
31622	250	x	10/200

1 STEEL WIRE BRUSHES

• ШЁТКИ МЕТАЛЛИЧЕСКИЕ • STAHLDRAHTBÜRSTEN



32613 with scraper



32614



32615

STEEL

- Steel wire bristles

Code	Number of rows	Length (mm)		
32613	3 x 19	340	x	6/36
32614	4 x 16	260	x	6/36
32615	5 x 11	180	x	12/72

2 STAINLESS STEEL WIRE BRUSHE

• ШЁТКИ МЕТАЛЛИЧЕСКИЕ • EDELSTAHLDRAHTBÜRSTEN



32623 with scraper



32624



32625

STAINLESS STEEL

- Stainless steel bristles

Code	Number of rows	Length (mm)		
32623	3 x 19	340	x	6/36
32624	4 x 16	260	x	6/36
32625	5 x 11	180	x	12/72

3 BRASS WIRE BRUSHES

• ШЁТКИ МЕТАЛЛИЧЕСКИЕ • MESSINGDRAHTBÜRSTEN



32633 with scraper



32634



32635

BRASS

- Brass wire bristles

Code	Number of rows	Length (mm)		
32633	3 x 19	340	x	6/36
32634	4 x 16	260	x	6/36
32635	5 x 11	180	x	12/72

4 NYLON WIRE BRUSHES

• ШЁТКИ МЕТАЛЛИЧЕСКИЕ • NYLON-DRAHTBÜRSTEN



32643 with scraper



32644



32645

NYLON

- Brass wire bristles

Code	Number of rows	Length (mm)		
32643	3 x 19	340	x	6/36
32644	4 x 16	260	x	6/36
32645	5 x 11	180	x	12/72

5 WIRE BRUSH SET

• НАБОР ЩЁТОК МЕТАЛЛИЧЕСКИХ • DRAHTBÜRSTEN-SET



x3 STAINLESS STEEL BRASS NYLON

- Stainless steel, brass and nylon bristles

Code	Number of rows	Length (mm)		
32603	3 x 7	180	x	12/72

PROLINE

1 HSS HAND TAPS

• МЕТЧИКИ ИЗ СТАЛИ HSS • HANDGEWINDEBOHRER HSS



DIN 352 HSS

- DIN 352 HSS SW7M, professional quality
- Delivered in sets of 2, no. 1, 2 • Metric standard and fine thread • Supplied in a plastic box

Code	Thread	
67043	M3	50
67044	M4	80
67045	M5	80
67046	M6	50
67048	M8	25
67049	M8 X 1	25
67050	M10	25
67051	M10 X 1	25
67052	M12	25

2 HSS HAND TAPS

• МЕТЧИКИ ИЗ СТАЛИ HSS • HANDGEWINDEBOHRER HSS



DIN 352 HSS

- DIN 352 HSS SW7M, professional quality
- Delivered in sets of 3, no. 1, 2, 3
- Metric standard thread
- Supplied in a plastic box

Code	Thread	
67023	M3	40
67024	M4	50
67025	M5	50
67026	M6	40
67028	M8	25
67030	M10	15
67032	M12	25

3 HSS DIES

• ПЛАШКИ ИЗ СТАЛИ HSS • SCHNEIDEISEN HSS



DIN EN 352 HSS

- DIN EN 22568 HSS SW7M, professional quality
- Metric standard and fine thread
- Supplied in a round plastic box

Code	Thread	Diameter (mm)	
67123	M3	25	150
67124	M4	25	150
67125	M5	25	150
67126	M6	25	150
67128	M8	25	150
67129	M8 x 1	25	150
67130	M10	25	150
67131	M10 x 1	25	150
67132	M12	25	150

4 21 PC. TAP SET

• НАБОР МЕТЧИКОВ 21 ШТ. • 21-TLG. SET GEWINDEBOHRER



x21 HSS

- M3, M4, M5, M6, M8, M10, M12 • Each size x3

Code	Quantity (pcs.)	
67221	21	20

5 32 PC. TAP AND DIE SET

• НАБОР МЕТЧИКОВ И ПЛАШЕК 32 ШТ. • 32-TLG. SET GEWINDEBOHRER UND SCHNEIDEISEN



x32 HSS

- M3, M4, M5, M6, M8, M10, M12 • Taps, each size x 3 pcs • Tap wrench, die, screwdriver

Code	Quantity (pcs.)	
67232	32	10

6 TAP WRENCHES

• ВОРОТКИ ДЛЯ МЕТЧИКОВ • KNEBELGRIFF FÜR GEWINDEBOHRER



- Supplied in a plastic case with a suspension

Code	Typ	For taps	L (mm)	
67095	NR 0	M1 - M4	125	50
67096	NR 1	M3 - M11	205	50
67097	NR 1.5	M3 - M12	205	40
67098	NR 2	M4,5 - M16	305	40
67099	NR 4	M11 - M27	395	25

7 DIE HOLDER

• ВОРОТОК ДЛЯ ПЛАШЕК • SCHNEIDEISENHALTER



- For notches with external dia. 25 mm
- Supplied in a plastic case with a suspension

Code	For notches	
67198	M7 - M9	65

1 SEMI-LIQUID GREASE

• МАШИННАЯ СМАЗКА • MASCHINENFETT



-30°C ~ +130°C

- For greasing rolling bearings, slide bearings, joints and guides • Works with heavy load
- Resistant to cold water washing • Offers protection from corrosion • Plastic syringe-type dispenser

Code	Volume (ml)	
42231	70	12

2 MACHINERY VASELINE

• ТЕХНИЧЕСКИЙ ВАЗЕЛИН • TECHNISCHE VASELINE



0°C ~ +30°C

- Designed for lubricating low-load friction nodes, greasing rubber and leather gaskets, protecting metal parts from corrosion, and as an agent protecting from rubber gasket adhesion and freezing • Plastic syringe-type dispenser

Code	Volume (ml)	
42233	70	12

3 LUBRICATING OIL

• МАШИННОЕ МАСЛО • MASCHINENÖL



0°C ~ +60°C

- For lubricating low-load parts of industrial machines - bearings, guides, mechanical gears, spindles and auxiliary friction nodes, as well as locks, hinges, household appliances
- Plastic syringe-type dispenser

Code	Volume (ml)	
42234	70	12

4 GRAPHITE GREASE

• ГРАФИТОВАЯ СМАЗКА • GRAPHITFETT



-20°C ~ +50°C

- For lubricating slow-rotating mechanisms and heavily-loaded friction surfaces, drive chains, worm gears, screw threads and as an assembly grease • Resistant to cold water washing • Plastic syringe-type dispenser

Code	Volume (ml)	
42232	70	12

5 COMPRESSED AIR

• СЖАТЫЙ ВОЗДУХ • SUSLĖGTAS ORAS







- For blowing: office equipment, small household appliances and similar, whenever we wish to remove dust, volatile dirt and waste, especially in places difficult to reach •Substance: mixture of n-Butane and Propane (%w/w: 40-60) • Class: F+, R12

Code	Volume (ml)	
42304	400	4/24

6 SHACKLE PADLOCKS

• ЗАМКИ НАВЕСНЫЕ • BÜGELSCHLÖSSER



x4 HRC

- Material: nickel-reinforced cast iron resistant to damage • Quenched bow
- Double locking • 4 keys with unique code
- Lock cylinder made from brass • Resistant to lock drilling

Code	Length (mm)		
24840	40	x	12/96
24850	50	x	12/96
24860	60	x	12/72

7 CLOSE SHACKLE TYPE PADLOCKS

• ЗАМКИ НАВЕСНЫЕ • BOLZENSCHLÖSSER



x4 HRC

- Material: nickel-reinforced cast iron resistant to damage • Quenched bow
- Double locking • 4 keys with unique code

Code	Length (mm)		
24261	60	x	6/72
24271	70	x	6/72
24281	80	x	6/48
24291	90	x	6/48

8 SHACKLE TYPE PADLOCKS

• ЗАМКИ НАВЕСНЫЕ • BÜGELSCHLÖSSER



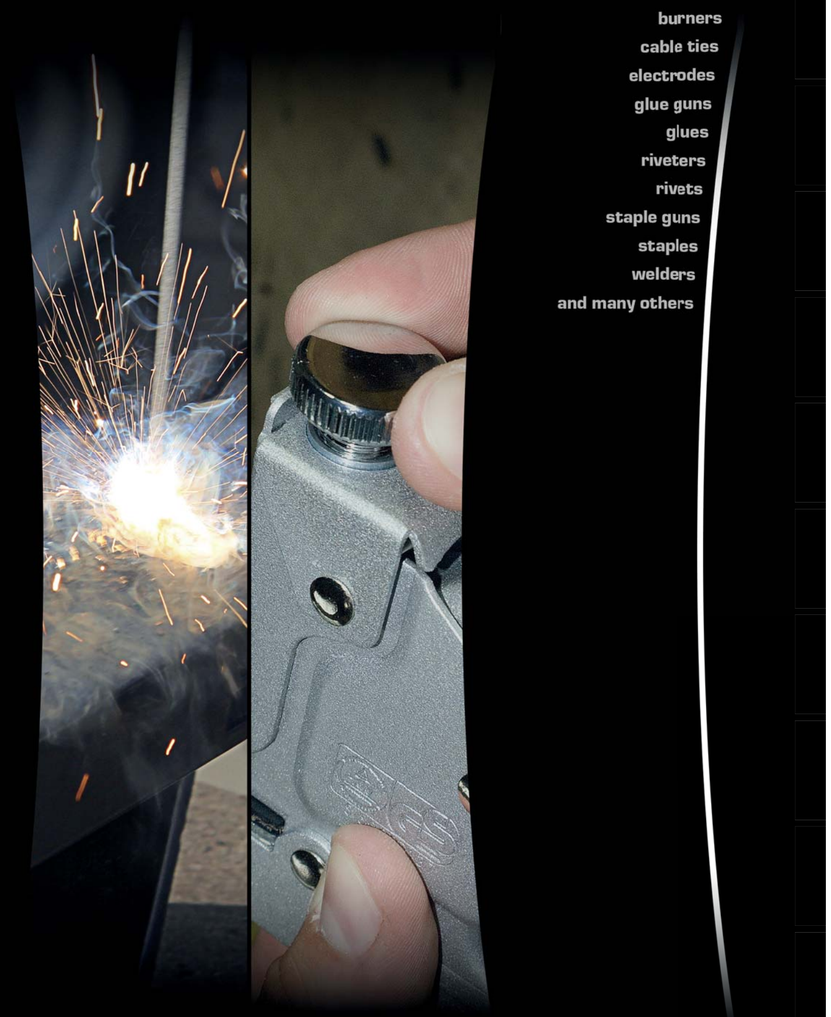
x4 HRC

- Material: nickel-reinforced cast iron resistant to damage • Quenched bow
- Double locking • 4 keys with unique code • Lock cylinder made from brass
- Resistant to lock drilling

Code	Length (mm)		
24940	40	x	12/96
24950	50	x	12/96
24960	60	x	12/72

PROLINE

JOINING TOOLS



- burners
- cable ties
- electrodes
- glue guns
- glues
- riveters
- rivets
- staple guns
- staples
- welders

and many others

1 MULTI-FUNCTION ALUMINUM STAPLE GUN

• УНИВЕРСАЛЬНЫЙ АЛЮМИНИЕВЫЙ РУЧНОЙ СКОБОЗАБИВАТЕЛЬ • MULTIFUNKTIONALE ALUMINIUM-HEFT-PISTOLE



6in1 AL NO SWITCH PATENT

Staples	Staples PROLINE	L (mm)
TYPE A/53 11.3mm 0.7mm 6-14mm	55306	6
	55308	8
	55310	10
	55312	12
	55314	14
TYPE G/140 10.6mm 1.2mm 10-14mm	55410	10
	55412	12
	55414	14
TYPE L/36 7.6mm 1.2mm 10-14mm	55440	10
	55442	12
TYPE H/13 10.6mm 0.75mm 6-14mm	-	-
TYPE P/9 10mm	-	-
TYPE J/8 10mm	-	-

• Patented NO SWITCH mechanism (just insert Nails or Staples in the magazine and the stapler is immediately ready for operation, without having to change the mode of operation with a switch) • Up to 6 different types of 6-15 mm nails or staples can be used • Adjustment of punching force for staples • Fast loading of staples from the bottom of the stapler • Lightweight aluminum housing • Includes a set of staples (500 pcs.)

Code	Height (mm)		
55037	6 - 15	x	6/24

2 MULTI-FUNCTION METAL STAPLE GUN

• УНИВЕРСАЛЬНЫЙ МЕТАЛЛИЧЕСКИЙ РУЧНОЙ СКОБОЗАБИВАТЕЛЬ
• MULTIFUNKTIONALE METALL-HEFTPISTOLE



3in1

Staples	Staples PROLINE	L (mm)
TYPE A/53 11.3mm 0.7mm 6-14mm	55306	6
	55308	8
	55310	10
	55312	12

• Metal housing • Equipped with a mechanism enabling three modes of operation

Code	Height (mm)		
55038	6 - 12	x	8/32

3 MULTI-FUNCTION STAPLE GUN/ TACKER

• УНИВЕРСАЛЬНЫЙ РУЧНОЙ СКОБОЗАБИВАТЕЛЬ
• MULTIFUNKTIONALE HEFTPISTOLE/ TACKER



Staples G, E, L	Staples PROLINE	L (mm)
10.6 mm 1.2 mm 0.52mm L	55406	6
	55408	8
	55410	10
	55412	12
	55414	14
7.6 mm 1.2mm 0.52mm L	55440	10
	55442	12
2.0mm L 1.3mm	55340	10
	55342	12
	55344	14

• Adjustable staple puncture force

Code	Height (mm)		
55036	6 - 14	x	12/24

4 STAPLE GUN / TACKER

• РУЧНОЙ МЕТАЛЛИЧЕСКИЙ СКОБОЗАБИВАТЕЛЬ
• HEFTPISTOLE / TACKER



Staples 53	Staples PROLINE	Staples MEGA	L (mm)
11.3mm 0.7mm 0.52mm L	55306	55206	6
	55308	55208	8
	55310	55210	10
	55312	55212	12
	55314	55214	14

• Adjustable staple puncture force

Code	Height (mm)		
55024	4 - 14	x	20/40

5 STAPLE GUN / TACKER

• РУЧНОЙ СКОБОЗАБИВАТЕЛЬ
• HEFTPISTOLE / TACKER



Staples 53	Staples PROLINE	Staples MEGA	L (mm)
11.3mm 0.7mm 0.52mm L	55306	55206	6
	55308	55208	8

Code	Height (mm)		
55028	4 - 8	x	20/40

PROLINE

1 MULTI-FUNCTION STAPLE GUN / TACKER

• УНИВЕРСАЛЬНЫЙ РУЧНОЙ СКОБОЗАБИВАТЕЛЬ
• MULTIFUNKTIONALE HEFTPISTOLE/ TACKER



Staples G, S, E	Staples PROLINE	L (mm)
	55406	6
	55408	8
	55410	10
	55412	12
	55414	14
	55330	10
	55332	12
	55340	10
	55342	12
	55344	14

• Adjustable staple puncture force • Delivered with rectangular staples 10 mm - 100 pcs., semi-circular staples 12 mm - 100 pcs., nails 10 mm - 100 pcs.

Code	Height (mm)		
55034	6 - 14	x	12/24

2 HAMMER TACKER

• РУЧНОЙ УДАРНЫЙ СКОБОЗАБИВАТЕЛЬ • HAMMER-TACKER



Staples G	Staples PROLINE	L (mm)
	55406	6
	55408	8
	55410	10

Code	Height (mm)		
55040	6 - 10	x	10/20

3 STAPLE GUN

• РУЧНОЙ ЩИПЦОВЫЙ СКОБОЗАБИВАТЕЛЬ • HEFTPISTOLE



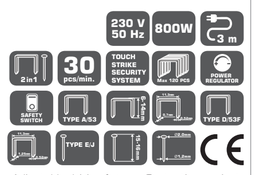
Staples R	Staples PROLINE	L (mm)
	55426	6
	55428	8

Code	Height (mm)		
55042	6 - 8	x	10/40

4 ELECTRIC STAPLER

• СТЕПЛЕР ЭЛЕКТРИЧЕСКИЙ • ELEKTRISCHE HEFTMASCHINE





• Adjustable driving force • Protection against unintended discharge • Safety switch
• Construction allowing work in corners
• Matching Staples in Proline's offer 55306-55314

Code	Power (W)	BOX	
55050	800	x	6

5 PNEUMATIC STAPLER

• СТЕПЛЕР ПНЕВМАТИЧЕСКИЙ • DRUCKLUFT-HEFTER





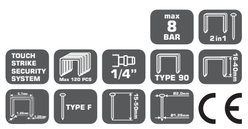
• Protection against unintended discharge
• Adjustable air direction setting • Delivered in a plastic box • Designed for upholstery work • Matching Staples in Proline's offer 55506- 55516

Code	Max air pressure (bar)	
66391	8	10

6 PNEUMATIC STAPLER / NAILER

• СТЕПЛЕР ПНЕВМАТИЧЕСКИЙ • DRUCKLUFT-HEFTER/ -NAGLER





• Protection against unintended discharge
• Adjustable air direction setting • Delivered in a plastic box • Designed for joinery work
• Matching Staples in Proline's offer 55506-55516 • Matching Staples in Proline's offer 55715 - 55750

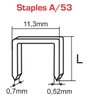
Code	Max air pressure (bar)	
66392	8	10

1 HARDENED STAPLES - TYPE A/53

• ЗАКАЛЕННЫЕ СКОБЫ ТИПА A/53 • GEHÄRTETE KLAMMERN - TYP A/53



Staples A/53



x1000

55024
55028
55014
55037
55038
55050

• Staple equivalents: - ARROW®JT-21- STANLEY#A/53 - ESCO#530 - KWB#053 - NOVUS#53 - RAPID#53 - ROCAFIX#3

Code	Height (mm)		
55306	6	x	100/200
55308	8	x	100/200
55310	10	x	100/200
55312	12	x	100/200
55314	14	x	100/200

3 HARDENED STAPLES - TYPE R/50

• ЗАКАЛЕННЫЕ СКОБЫ ТИПА R/50
• GEHÄRTETE KLAMMERN - TYP R/50



Staples R/50



x1000

55042

• Staple equivalents: - - KWB#052- NOVUS#50 - RAPID#140 - ROCAFIX#6 - ESCO#970

Code	Height (mm)		
55426	6	x	100/200
55428	8	x	100/200

4 HARDENED STAPLES - TYPE S

• ЗАКАЛЕННЫЕ СКОБЫ ПОЛУКРУГЛЫЕ ТИПА S
• GEHÄRTETE KLAMMERN - TYP S



Staples S



x1000

55034

• Staple equivalents: - NOVUS#S - RAPID#28 - ROCAFIX#8

Code	Height (mm)		
55330	10	x	100/200
55332	12	x	100/200

2 HARDENED STAPLES - TYPE G/11

• ЗАКАЛЕННЫЕ СКОБЫ ТИПА G/11
• GEHÄRTETE KLAMMERN - TYP A/53



Staples G/11

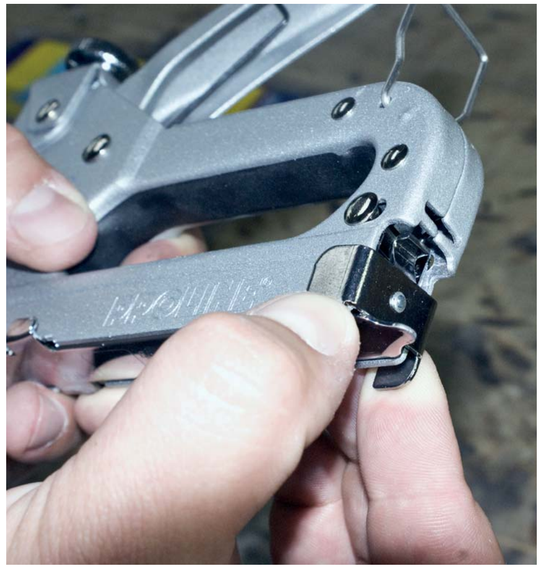


x1000

55034
55036
55040
55037

• Staple equivalents: - ARROW®T-50K - STANLEY G/11 - KWB#057- NOVUS#11- RAPID#140 - ROCAFIX#4

Code	Height (mm)		
55406	6	x	100
55408	8	x	100
55410	10	x	100
55412	12	x	100
55414	14	x	100



1 HARDENED STAPLES - TYPE L

• ЗАКАЛЕННЫЕ СКОБЫ ПОЛУКРУГЛЫЕ ТИПА L
• GEHÄRTETE KLAMMERN - TYP L



Staples L

x1000

55036
55037

• Staple equivalents: - NOVUS#L - RAPID#36 - ROCAFIX#7

Code	Height (mm)		
55440	10	x	100/200
55442	12	x	100/200

2 HARDENED STAPLE NAILS - TYPE E/J

• ШТИФТЫ ТИПА E/J • GEHÄRTETE KLAMMERNÄGEL - TYP E/J



Nails E/J



x1000

55034
55038
55050

• Nail equivalents: - ESCO#300 - NOVUS#E - ROCAFIX#No8

Code	Height (mm)		
55340	10	x	100/200
55342	12	x	100/200
55344	14	x	100/200

3 HARDENED STAPLES - TYPE 80

• ЗАКАЛЕННЫЕ СКОБЫ ТИПА 80 • GEHÄRTETE KLAMMERN - TYP 80

Staples 80





x1000

66391

• Dedicated for pneumatic staplers

Code	Height (mm)		
55506	6	x	200
55508	8	x	200
55510	10	x	100
55512	12	x	100
55514	14	x	100
55516	16	x	100

4 HARDENED STAPLES - TYPE 90

• ЗАКАЛЕННЫЕ СКОБЫ ТИПА 90 • GEHÄRTETE KLAMMERN - TYP 90

Staples 90





x1000

66392

• Dedicated for pneumatic staplers

Code	Height (mm)		
55616	16	x	72
55619	19	x	72
55622	22	x	60
55625	25	x	48
55628	28	x	48
55632	32	x	36
55638	38	x	36
55640	40	x	36

5 HARDENED STAPLE NAILS - TYPE F

• НШТИФТЫ ТИПА F • GEHÄRTETE KLAMMERNÄGEL - TYP F

Nails F





x1000

66392

• Dedicated for pneumatic staplers

Code	Height (mm)		
55715	15	x	150
55720	20	x	120
55725	25	x	100
55730	30	x	80
55735	35	x	70
55740	40	x	60
55745	45	x	60
55750	50	x	50

1 RIVETER

• ЗАКЛЕПОЧНИК
• NIET

Al | STEEL | HRC 55±2 | x4 | 2,4 mm, 3,2 mm, 4,0 mm, 4,8 mm



• For blind rivets made from aluminium and steel • Quenched head parts extend riveter lifecycle

Code		
14007	x	12/24

2 SWIVEL HEAD RIVETER

• ЗАКЛЕПОЧНИК С ВРАЩАЮЩЕЙСЯ ГОЛОВКОЙ • SCHWENKKOPF-NIETZANGE

360° | Cu | Al | HRC 35±2 | x4 | 2,4 mm, 3,2 mm, 4,0 mm, 4,8 mm



• Revolving head facilitating work in places difficult to reach • For copper and iron rivets dia. 2.4 mm and 3.2 mm and for aluminium rivets dia. 2.4 mm, 3.2 mm, 4.0 mm and 4.8 mm • Quenched head parts extend riveter lifecycle

Code		
14010	x	6/24

3 LONG ARM RIVETER

• ЗАКЛЕПОЧНИК РЫЧАЖНЫЙ • LANGARMNIETZANGE

540 mm | Cu | Al | STAINLESS STEEL | STEEL | CrV | x5 | 3,2 mm, 4,0 mm, 4,8 mm, 6,0 mm, 6,4 mm



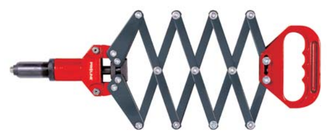
• For rivets made from steel, stainless steel, copper and aluminium

Code	Length (mm)	
14008	540	10

4 LAZY TONG RIVETER

• РЫЧАЖНО-СКЛАДНОЙ ЗАКЛЕПОЧНИК (ГАРМОШКА) • ZANGENNIETER

840 mm | Al | x4 | 2,4 mm, 3,2 mm, 4,0 mm, 4,8 mm



• For aluminium rivets

Code	Length (mm)	
14006	840	12

5 NUT RIVET RIVETER KIT

• ЗАКЛЁПОЧНИК ОДНОРУЧНЫЙ ДЛЯ ЗАКЛЁПОК-ГАЕК • MUTTER-NIET-NIETMASCHINE KIT



M3 M4 M5 M6 | 200 mm | x4

• Four adapter sets for every size of rivet nut, a wrench and basic set of 10 rivet nuts of every size • For compressing threaded bushings in thin walls while fastening them

Code	For rivet nuts	Quantity of rivet nuts (pcs.)	
14011	M3, M4, M5, M6	40	10

6 NUT RIVET RIVETER KIT

• ЗАКЛЁПОЧНИК ДВУРУЧНЫЙ ДЛЯ ЗАКЛЁПОК-ГАЕК • MUTTER-NIET-NIETMASCHINE KIT



M3 M4 M5 M6 M8 M10 M12 | x7 | 410 mm

• Seven adapter sets for every size of rivet nut, a wrench, and basic set of 10 rivet nuts of every size • For compressing threaded bushings in thin walls while fastening them

Code	For rivet nuts	
14012	M3, M4, M5, M6, M8, M10, M12	5

7 NUT RIVETS

• ЗАКЛЁПКИ-ГАЙКИ СТАЛЬНЫЕ • MUTTERNNIETEN

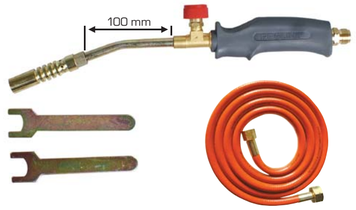


• Material: steel • Supplied in a plastic bag of 20 items

Code	Type	Quantity (pcs.)	Max thickness of joined materials (mm)	Length (mm)	Rivet nut Ø (mm)	Drill Ø (mm)	
59711	M3	20	2.0	9	4.9	5.0	100/400
59712	M4	20	2.0	11	5.9	6.0	100/400
59713	M5	20	2.5	13	6.9	7.0	60/240
59714	M6	20	3.0	15	8.8	9.0	36/144
59715	M8	20	3.5	18	10.8	11.0	25/100
59716	M10	20	3.5	21	12.8	13.0	16/64
59717	M12	20	3.5	22	14.8	15.0	12/48

1 BRAZING BURNER

• ГАЗОВАЯ ПРОПАНОВАЯ ГОРЕЛКА • LÖTBRENNER



17 mm | 1850°C | 4,5 kW | 0,32 kg/h LPG | 2m | x2



- LPG-supplied
- Pin-point flame (propane butane)
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60040	6/18

2 BRAZING BURNER

• ГАЗОВАЯ ПРОПАНОВАЯ ГОРЕЛКА • LÖTBRENNER



40 mm | 22 mm | 17 mm | 1850°C | 4,5 kW | 0,32 kg/h LPG | 2m | x2

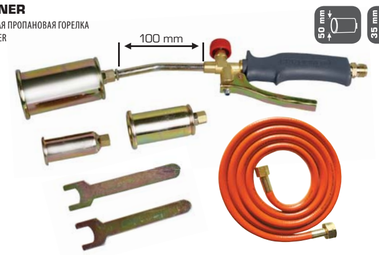


- LPG-supplied (propane butane)
- With three nozzles with flame:
  - pin-point
  - surrounding
  - flat
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60041	6/12

3 BURNER

• ГАЗОВАЯ ПРОПАНОВАЯ ГОРЕЛКА
• BRENNER



50 mm | 35 mm | 25 mm | 1850°C | 50 kW | 3,57 kg/h LPG | 2m | x2



- LPG-supplied (propane butane)
- With three nozzles with distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60042	8

4 TORCH

• СОПЛО ДЛЯ ГАЗОВОЙ ПРОПАНОВОЙ ГОРЕЛКИ • HANDBRENNER



22 mm

- Surrounding flame

Code	For burners	
	60040	50
60045	60041	50
	60042	50

5 TORCH

• СОПЛО ДЛЯ ГАЗОВОЙ ПРОПАНОВОЙ ГОРЕЛКИ • HANDBRENNER



40 mm

- Flat flame

Code	For burners	
	60040	50
60046	60041	50
	60042	50

6 TORCH

• СОПЛО ДЛЯ ГАЗОВОЙ ПРОПАНОВОЙ ГОРЕЛКИ • HANDBRENNER



35 mm

- Distributed flame

Code	For burners	
60047	60042	50

7 TORCH

• СОПЛО ДЛЯ ГАЗОВОЙ ПРОПАНОВОЙ ГОРЕЛКИ • HANDBRENNER



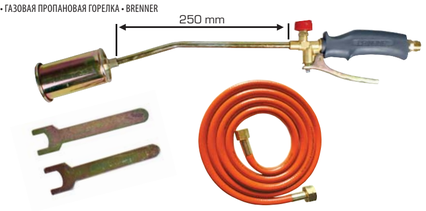
17 mm

- Pin-point flame

Code	For burners	
	60040	50
60048	60041	50

1 BURNER

• ГАЗОВАЯ ПРОПАНОВАЯ ГОРЕЛКА • BRENNER



50 mm | 1400°C | 28 kW | 2 kg/h LPG | 2m | x2



- LPG-supplied (propane butane)
- Distributed flame
- Hose meets the requirements of EN 16436-1

Code	
60050	6/12

2 OOF WORK BURNER

• ГАЗОВАЯ ПРОПАНОВАЯ ГОРЕЛКА • OOF ARBEITSBRENNER



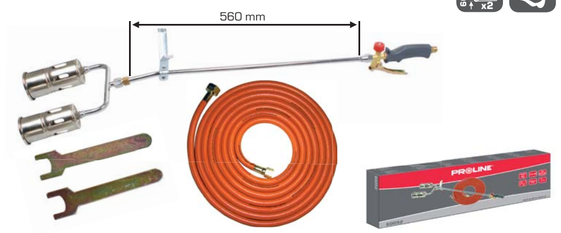
60 mm | 1850°C | 42,5 kW | 3,12 kg/h LPG | 5m | x2

- LPG-supplied (propane butane)
- Distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60051	8

3 DOUBLE TORCH ROOF WORK BURNER

• ГАЗОВАЯ ПРОПАНОВАЯ ГОРЕЛКА С ДВОЙНЫМ СОПЛОМ • DOPPELBRENNER FÜR DACHARBEITEN



60 mm x2 | 1850°C | 85 kW | 6,24 kg/h LPG | 5m | x2

- LPG-supplied (propane butane)
- With a support (see the photo)
- With 2 nozzles with distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60052	8

4 TRIPLE TORCH ROOF WORK BURNER

• ГАЗОВАЯ ПРОПАНОВАЯ ГОРЕЛКА С ТРОЙНЫМ СОПЛОМ • DREIFACH-BRENNER FÜR DACHARBEITEN



50 mm x3 | 1850°C | 99 kW | 6,90 kg/h LPG | 5m | x2

- LPG-supplied (propane butane)
- With a support (see the photo)
- With 3 nozzles with distributed flame
- Hose meets the requirements of EN ISO 9012 and EN 16436-1

Code	
60053	6

1 SOLDERING WIRE

• ОЛОВО ПАЯЛЬНОЕ • LÖTDRAHT





S-Sn60 Pb40 2.5%

- Sn60 Pb40 soldering wire 2.5%
- Perfect for accurate soldering of small components
- For DIY works and professionals

Code	Length (m)	Diameter (mm)		
60324	3 x 3	1	x	200

2 SOLDERING WIRE

• ОЛОВО ПАЯЛЬНОЕ • LÖTDRAHT



S-Sn60 Pb40 2.5%

- Sn60 Pb40 soldering wire 2.5%
- Perfect for accurate soldering of small components
- For DIY works and professionals

Code	Length (m)	Diameter (mm)	
60332	3	1	100

3 SOLDERING WIRE

• ОЛОВО ПАЯЛЬНОЕ • LÖTDRAHT



S-Sn60 Pb40 2.5%

- Sn60 Pb40 soldering wire 2.5% • Perfect for accurate soldering of small components
- For DIY works and professionals

Code	Weight (g)	Diameter (mm)		
60320	100	0.56	x	100
60321	100	0.7	x	100
60322	100	1	x	100
60323	100	1.5	x	100
60325	100	0.56	-	60
60326	100	0.7	-	60
60327	100	1	-	60
60328	100	1.5	-	60
60329	100	2	-	60
60330	100	2.5	-	60
60331	100	3	-	60

4 MICROTORCH

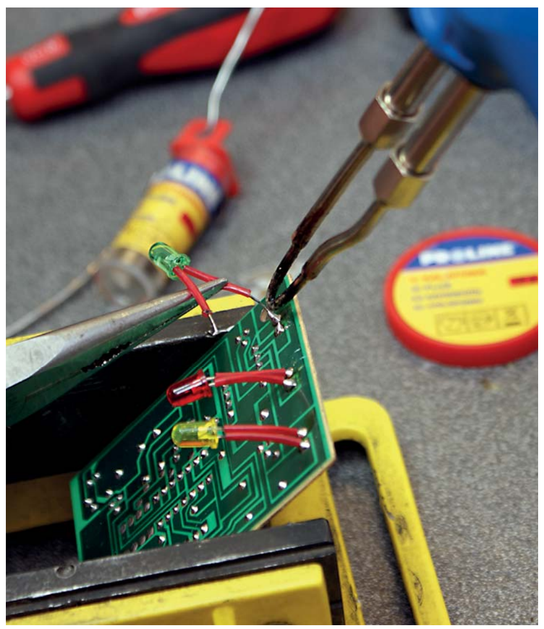
• МИНИГОРЕЛКА • MIKROBRENNER



PIEZO | 1300°C | 28ml PROPAN-BUTAN | 60-70 min.

- Easy loading of lighter gas

Code	Volume (ml)		
60034	28	x	10/20



5 7 PC. GAS TORCH SET

• НАБОР 7 ШТ. С МИНИГОРЕЛКОЙ - ПАЯЛЬНИКОМ
• 7 STK. GASBRENNER-SET



1300°C | 13ml PROPAN-BUTAN | 60min.

- Easy loading of lighter gas
- The set includes: burner, soldering tips - 3 pcs (soldering tip temperature 200 - 450 °C), blade tip - temperature 350OC, soldering head, solder, tip cleaning container

Code	Volume (ml)	
60037	13	20

1 GLUE GUN

• ТЕРМОКЛЕЕВОЙ ПИСТОЛЕТ • KLEBEPISTOLE



110-240 V 50 Hz | 230 V 50 Hz | Ø 11,2mm | 12 W (72 W) | CE

Code	Glue Ø (mm)		
42911	11.2	x	12/24

2 GLUE GUN

• ТЕРМОКЛЕЕВОЙ ПИСТОЛЕТ • KLEBEPISTOLE



110-240 V 50 Hz | Ø 11,2mm | 25 W (78 W) | CE

Code	Glue Ø (mm)		
42912	11.2	x	12/24

3 GLUE GUN

• ТЕРМОКЛЕЕВОЙ ПИСТОЛЕТ • KLEBEPISTOLE



230 V 50 Hz | Ø 11,2mm | 20 W (200 W) | CE

Code	Glue Ø (mm)		
42916	11.2	x	12/24

4 CORDLESS GLUE GUN

• ТЕРМОКЛЕЕВОЙ ПИСТОЛЕТ • KABELLOSE KLEBEPISTOLE



230 V 50 Hz | Ø 11,2mm | 35 W (400W) | CE

Code	Glue Ø (mm)		
42917	11.2	x	12

5 GLUE GUN WITH ON/OFF SWITCH

• ТЕРМОКЛЕЕВОЙ ПИСТОЛЕТ С ВЫКЛЮЧАТЕЛЕМ
• KLEBEPISTOLE MIT EIN-/AUSSCHALTER





230 V 50 Hz | Ø 11,2mm | 28 W (180W) | CE

• The switch enables to switch the gun off without unplugging

Code	Glue Ø (mm)		
42915	11.2	x	6/12

6 GLUE BARS

• КЛЕЕВЫЕ СТЕРЖНИ • KLEBSTOFFSTÄBE



• For glue guns • Transparent • Hot-melt
• Designation: general use, when binding plastic, fabrics, metal, cables, etc.

Code	Ø (mm)	L (mm)	Quantity (pcs.)	Weight (kg)	
42901	11.2	200	50	1	20

7 GLUE BARS

• КЛЕЕВЫЕ СТЕРЖНИ • KLEBSTOFFSTÄBE



42903

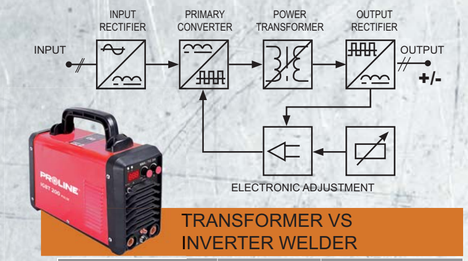


42918

• For glue guns • Transparent • Hot-melt
• Designation: general use, when binding plastic, fabrics, metal, cables

Code	Ø (mm)	L (mm)	Quantity (pcs.)		
42902	11.2	200	12	x	25/50
42903	11.2	100	6	x	50/200
42905	11.2	250	12	x	25/50
42904	8	100	12	x	50/200
42918	8	50	12	x	50/200

INVERTER WELDER TECHNOLOGY

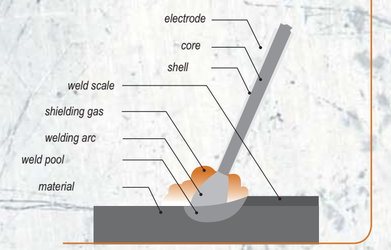


TRANSFORMER VS INVERTER WELDER

	INVERTER WELDER	TRANSFORMER WELDER
dimension and weight	✲✲✲✲	✲✲
current stability	✲✲✲✲✲	✲✲
energy consumption	✲✲✲✲✲	✲✲
type of electrodes used	✲✲✲✲	✲
welding quality control	✲✲✲✲✲	✲
general parameters	✲✲✲✲✲	✲✲

✲ = positive assessment

MMA PROCESS

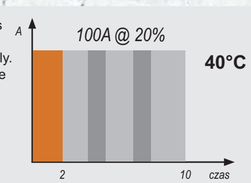


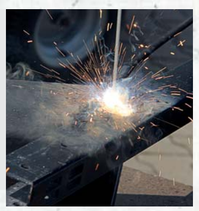
MMA PROPERTIES

ADVANTAGES	DISADVANTAGES
• highly practical	• limited performance
• significant savings	• scale removal
• no gas cylinders	
• welding in all positions	

EFFICIENCY

Efficiency is the number of minutes in a 10 minute period during which the welder can operate continuously. The device's efficiency stated in the catalogue is measured at 40°C





ADDITIONAL FUNCTIONS

■ ARC FORCE

The function shortens the arc while the welding current increases. This makes it easier to ignite the arc when starting welding and to maintain it. This optimises the transfer of drops from the electrode onto the workpiece, preventing the arc from going out when the electrode comes into contact with the workpiece. It is available only in inverter welders.

■ HOT START

The function increases the welding current when the arc is ignited in order to warm up the material and the electrode. The function optimises process parameters. It is available in inverter and transformer welders.

■ ANTI-STICK

The function limits the welding current by preventing the electrode from sticking to the material being welded during arc ignition and heating up when it sticks. A useful function for inexperienced welders. It is available only in inverter welders.

AVERAGE WELDING CURRENT (A)

	ELECTRODE DIAMETER						
TYPE OF ELECTRODE	1,6	2	2,5	3,25	4	5	6
RUTILE	30-55	40-70	50-100	80-130	120-70	150-250	220-370
BASIC	50-75	60-100	70-120	110-150	140-200	190-260	250-320
CELLULOSE	20-45	30-60	40-80	70-120	100-150	140-230	200-300

WELDERS VS ELECTRODE TYPE

BASIC ELECTRODE	RUTILE ELECTRODE	CELLULOSE ELECTRODE	ELECTRODE FOR STAINLESS STEEL
optimum material purity	easy ignition	Designed for MMA welding of pipes and tanks (deep and „sticky" weld lake) where tightness for gas, water and all types of liquids under pressure is required.	Designed for MMA welding of stainless steel
welding in all positions	stable arc		
high mechanical quality of welding	good aesthetics and smooth welding		
	low costs		
	easy storage		
DC INWERTER	DC INWERTER AC TRANSFORMATOR		

ИНВЕРТОРНЫЙ СВАРОЧНЫЙ АППАРАТ



ТРАНСФОРМАТОР VS ИНВЕРТОРНЫЙ СВАРОЧНЫЙ АППАРАТ

	ИНВЕРТОРНЫЙ СВАРОЧНЫЙ АППАРАТ	ТРАНСФОРМАТОРНЫЙ СВАРОЧНЫЙ АППАРАТ
размеры и вес	✲✲✲✲	✲✲
стабильность тока	✲✲✲✲✲	✲✲
энергопотребление	✲✲✲✲✲	✲✲
тип используемых электродов	✲✲✲✲	✲
контроль качества сварки	✲✲✲✲✲	✲
общие параметры	✲✲✲✲✲	✲✲

✲ = положительная оценка

ММА ПРОЦЕСС

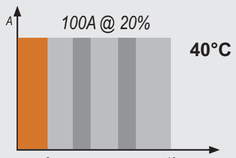


ММА СВОЙСТВА

ПРЕИМУЩЕСТВА	НЕДОСТАТКИ
• высокая практичность	• ограниченная производительность
• значительная экономия	• удаление окалины
• нет газовых баллонов	
• сварка во всех положениях	

ЭФФЕКТИВНОСТЬ

Эффективность - это количество минут в 10-минутном периоде, в течение которого сварщик может работать непрерывно. Заявленная в каталоге эффективность устройства измеряется при 40 °C.





ДОПОЛНИТЕЛЬНЫЕ ФУНКЦИИ

■ ФОРСИРОВАНИЕ ДУГИ

Функция укорачивает дугу, а сварочный ток увеличивается. Это облегчает зажигание дуги в начале сварки и ее поддержание. Оптимизирует перенос капель с электрода на деталь, исключая выход дуги при контакте электрода с деталью. Доступно только для инверторных сварочных аппаратов.

■ ГОРЯЧИЙ ЗАПУСК

Функция повышает сварочный ток при зажигании дуги, чтобы нагреть материал и электрод. Функция оптимизирует параметры процесса. Доступно для инверторных и трансформаторных сварочных аппаратов.

■ АНТИ-ПРИЛИПАНИЕ

Эта функция ограничивает сварочный ток, исключая прилипание электрода к свариваемому материалу при зажигании дуги и нагрев при прилипании. Полезная функция для неопытных сварщиков. Доступно только для инверторных сварочных аппаратов.

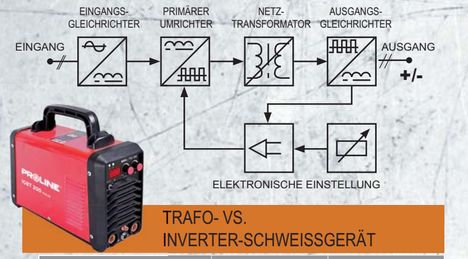
СРЕДНИЙ СВАРОЧНЫЙ ТОК (А)

	ДИАМЕТР ЭЛЕКТРОДА						
ТИП ЭЛЕКТРОДА	1,6	2	2,5	3,25	4	5	6
РУТИЛОВЫЙ	30-55	40-70	50-100	80-130	120-70	150-250	220-370
БАЗОВЫЙ	50-75	60-100	70-120	110-150	140-200	190-260	250-320
ЦЕЛЛЮЛОЗНЫЙ	20-45	30-60	40-80	70-120	100-150	140-230	200-300

СВАРОЧНЫЕ АППАРАТЫ ПО ТИПУ ЭЛЕКТРОДА

БАЗОВЫЙ ЭЛЕКТРОД	РУТИЛОВЫЙ ЭЛЕКТРОД	ЦЕЛЛЮЛОЗНЫЙ ЭЛЕКТРОД	ЭЛЕКТРОД ДЛЯ НЕРЖАВЕЮЩЕЙ СТАЛИ
оптимальная чистота материала	легкое зажигание	Предназначен для ММА сварки труб и резервуаров (глубокий и «липкий» сварной шов), где требуется герметичность для газа, воды и всех типов жидкостей под давлением.	Предназначен для ММА сварки нержавеющей стали
сварка во всех положениях	стабильная дуга		
высокое механическое качество сварки	хорошая эстетичность и плавная сварка		
	небольшие расходы		
	простое хранение		
ПРЕОБРАЗОВАТЕЛЬ ПОСТОЯННОГО ТОКА	ПРЕОБРАЗОВАТЕЛЬ ПОСТОЯННОГО ТОКА ТРАНСФОРМАТОР ПЕРЕМЕННОГО ТОКА		

TECHNOLOGIE DES INVERTER-SCHWEISSGERÄTS

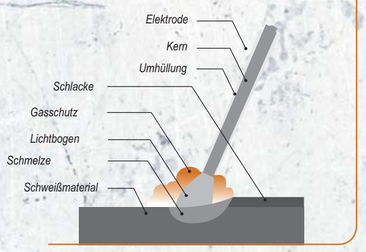


TRAFO- VS. INVERTER-SCHWEISSGERÄT

	INVERTER-SCHWEISSGERÄT	TRAFO-SCHWEISSGERÄT
Größe und Gewicht	✲✲✲✲	✲✲
Stromstabilität	✲✲✲✲✲	✲✲
Energieverbrauch	✲✲✲✲✲	✲✲
Art der verwendeten Elektroden	✲✲✲✲	✲
Schweißqualitätskontrolle	✲✲✲✲✲	✲
Allgemeine Parameter	✲✲✲✲✲	✲✲

✲ = positive Bewertung

MMA-PROZESS

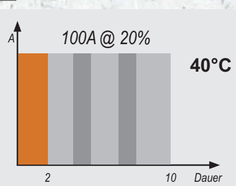


EIGENSCHAFTEN DES MMA-SCHWEISSENS

VORTEILE	NACHTEILE
• sehr praktisch	• eingeschränkte Leistung
• erhebliche Einsparungen	• Entfernung der Schlacke
• keine Gaszylinder	
• Schweißen in allen Positionen	

EFFIZIENZ

Durch die Effizienz wird die Anzahl der Minuten in einem Zeitraum von 10 Minuten bezeichnet, in denen der Schweißer kontinuierlich arbeiten kann. Die im Katalog angegebene Effizienz des Geräts wird bei 40°C gemessen.





ZUSÄTZLICHE FUNKTIONEN

BOGENSTÄRKE

Durch diese Funktion wird der Bogen verkürzt, während der Schweißstrom erhöht wird. Dies erleichtert das Zünden des Bogens beim Beginn des Schweißens und dessen Aufrechterhaltung. Hierdurch wird der Transfer von Tropfen von der Elektrode auf das Werkstück optimiert, wodurch verhindert wird, dass der Bogen erlischt, wenn es zum Kontakt zwischen der Elektrode und dem Werkstück kommt. Die Funktion ist nur für Inverter-Schweißgeräte verfügbar.

HOT START

Durch die Funktion wird der Schweißstrom erhöht, wenn der Bogen gezündet wird, wobei dies die Erwärmung des Materials und der Elektrode zum Zweck hat. Die Funktion optimiert die Prozessparameter. Sie ist in Inverter- und Trafo-Schweißgeräte verfügbar.

ANTI-STICK

Die Funktion begrenzt den Schweißstrom, indem verhindert wird, dass die Elektrode während der Bogenzündung an dem zu schweißenden Material kleben bleibt und sich während des Festklebens erwärmt. Eine nützliche Funktion für unerfahrene Schweißer. Die Funktion ist nur für Inverter-Schweißgeräte verfügbar.

DURCHSCHNITTLICHER SCHWEISSSTROM (A)

	ELEKTRODE DURCHMESSER						
TYP DER ELEKTRODE	1,6	2	2,5	3,25	4	5	6
RUTIL	30-55	40-70	50-100	80-130	120-70	150-250	220-370
BASIC	50-75	60-100	70-120	110-150	140-200	190-260	250-320
CELLULOSE	20-45	30-60	40-80	70-120	100-150	140-230	200-300

SCHWEISSGERÄTE VS. ELEKTRODENARTEN

STANDARDELEKTRODE	RUTILELEKTRODE	CELLULOSEELEKTRODE	ELEKTRODE FÜR EDELSTAHL
Optimale Materialreinheit	Einfache Zündung	Entwickelt für das MMA--Schweißen von Rohren und Tanks (tiefe und „klebrige" Schmelze), wo es erforderlich ist, dass eine Dichtigkeit für Gas, Wasser und alle anderen Arten von Flüssigkeiten unter Druck vorhanden ist.	Entwickelt für das MMA-Schweißen von Edelstahl
Schweißen in allen Positionen	Stabiler Lichtbogen		
Hohe mechanische Qualität des Schweißens	Gute Ästhetik und glatte Schweißnähte		
	Niedrige Kosten		
	Einfache Lagerung		
DC-WANDLER	DC-WANDLER AC-TRANSFORMATOR		

1 MMA INVERTER WELDERS

• ИНВЕРТОРНЫЙ СВАРОЧНЫЙ АППАРАТ MMA • MMA WECHSELRICHTER SCHWEISSGERÄTE



230 V 50 Hz | MMA | ARC FORCE | HOT START | ANTI STICK | ø1.6 - 4MM | 3,5 kg

- Inverter welding machines MMA200, MMA160 Technology IGTB • Functios: "Hot start", „Anti stick", „Arc force" • Unloaded nominal voltage of ~82 V
- Work cycle -30% • Efficiency -85% • Fan cooled • Recommended electrode diameter 1.6–4 mm • Insulation class - H • Level of security 21S • Thermal protection • Equipment: 1.8 m cable with a 200A electrode holder and 1.2 m cable with a 200 A ground clamp • Weight 5,1kg

Code	Output current range (A)	Rated output power (kVA)	
42940	20 - 150	5,7	1
42941	20 - 170	6,6	1

2 MMA / TIG INVERTER WELDER

• ИНВЕРТОРНЫЙ СВАРОЧНЫЙ АППАРАТ MMA / TIG • MMA / TIG WECHSELRICHTER SCHWEISSGERÄT



230 V 50 Hz | MMA TIG | TIG PULSE | ø1.6 - 4MM | TIG | 7,1 kg

- Inverter welding machine MMA/TIG 200 • Technology IGTB • Funktion: „TIG PULSE" • Unloaded nominal voltage of ~60 V • Work cycle ~60% @200A • Efficiency ~85% • Cooling with a fan • Recommended electrode diameter: TIG nonconsumable electrode – 1.6–4 mm, MMA electrode – 1.6–4 mm
- Insulation class - H • Level of security 21S • Thermal protection
- Equipment: Electricity and gas TIG cable, 3 m, TIG ceramic nozzles, 3 pcs (5,6,7), TIG sleeve clamp, 3 pcs. (1.6 mm, 2 mm, 2.4 mm), nonconsumable TIG electrode, 1 pc (1.6X150 mm) • 1.8 m MMA cable with a 200 A electrode holder; 1.2 m MMA cable with a 200 A ground clamp • Weight 7,1kg

Code	Output current range (A)	Rated output power (kVA)	
42942	20 - 170	8	1

3 C TYPE WELDING LOCKING PLIERS

• КЛЕЩИ СВАРОЧНЫЕ, ТИП C • SCHWEISSVERRIEGELUNGSZANGE TYP C



CrV | HRC 42±2

- Adjustable force and clamp clearance • Nickel plated • Movable anvil

Code	Length (mm)	Max. width (mm)	
28252	280	86	6/24

5 U TYPE WELDING LOCKING PLIERS

• КЛЕЩИ СВАРОЧНЫЕ, ТИП U • SCHWEISSVERRIEGELUNGSZANGE TYP U



CrV | HRC 42±2

- Adjustable force and clamp clearance • Nickel plated

Code	Length (mm)	Max. width (mm)	
28251	225	41	6/24

4 C TYPE WELDING LOCKING PLIERS

• КЛЕЩИ СВАРОЧНЫЕ, ТИП C • SCHWEISSVERRIEGELUNGSZANGE TYP C



CrV | HRC 42±2

- Adjustable force and clamp clearance • Nickel plated • Non novable anvil

Code	Length (mm)	Max. width (mm)	
28253	280	86	6/24

6 WELDING LOCKING PLIERS

• КЛЕЩИ СВАРОЧНЫЕ ПЛОСКИЕ • SCHWEISSVERRIEGELUNGSZANGE



CrV | HRC 42±2

- Adjustable clamping force and jaw distance • Nickel plated

Code	Length (mm)	Max. width (mm)	
28250	200	13	6/24

1 RUTILE-CELLULOSE ELECTRODES

• ЭЛЕКТРОДЫ РУТИЛО - ЦЕЛЛЮЛОЗНЫЕ • RUTIL-CELLULOSE ELEKTRODEN



Certificate of Compliance with the CPR Regulation of the European Parliament and of the Council (EU) No. 305/2011. Issued by the Building Research Institute (Instytut Techniki Budowlanej)

- Coated rutile and cellulosic electrode for welding low-carbon steel
- PROLINE electrodes are not sensitive to the quality of edge preparation, presence of corrosion, varnish or other impurities on the welded surface
- The electrodes are packed in double plastic film protection to prevent their humidification • Emission of hazardous substances during welded 28% lower • Tensile strength at least 450 N/mm²

Code	Diameter (mm)	Packaging weight (kg)	
66511	2.0	0.50	40
66514	3.2	0.50	40
66517	2.5	1.00	20
66519	3.2	1.00	20
66522	2.5	2.50	1
66524	3.2	2.50	1
66525	4.0	2.50	1

2 ELECTRODE HOLDERS

• ДЕРЖАТЕЛИ ЭЛЕКТРОДОВ • ELEKTRODENHALTER



Code	Max currant (A)	Diameter (mm)	
66900	160	1.6 - 4.0	25
66901	200	2.5 - 5.0	25
66902	315	2.5 - 6.3	25
66903	400	3.5 - 6.3	25

3 WELDING CLAMPS

• ЗАЖИМ ПОЛЮСНЫЙ ВИНТОВОЙ • SCHWEISSKLEMMEN



Code	Max currant (A)	Cable (mm²)	
66910	150	25 - 35	25
66911	300	50 - 70	25
66912	400	70 - 95	25

4 WELDING CLAMPS

• ЗАЖИМ КЛЕЩЕВОЙ ПОЛЮСНЫЙ • SCHWEISSKLEMMEN



Code	Max currant (A)	Cable (mm²)	
66920	160	25 - 35	25
66921	315	50 - 70	25
66922	520	70 - 95	25



5 WELDING WIRE

• ОМЕДНЕННАЯ СВАРОЧНАЯ ПРОВОЛОКА • SCHWEISSDRAHT



- Wire G G3Si1 (SG2) • Plastic spool
- 66047 - metal spool

Code	Diameter (mm)	Packaging weight (kg)	
66040	0.6	1	18
66041	0.8	1	18
66042	1.0	1	18
66043	1.2	1	1
66045	0.8	5	1
66046	0.8	15	1
66047	1.0	15	1
66048	1.2	15	1

6 NYLON CABLE TIES

• ЗАЖИМНЫЕ ХОМУТЫ НЕЙЛОНОВЫЕ • NYLON-KABELBINDER

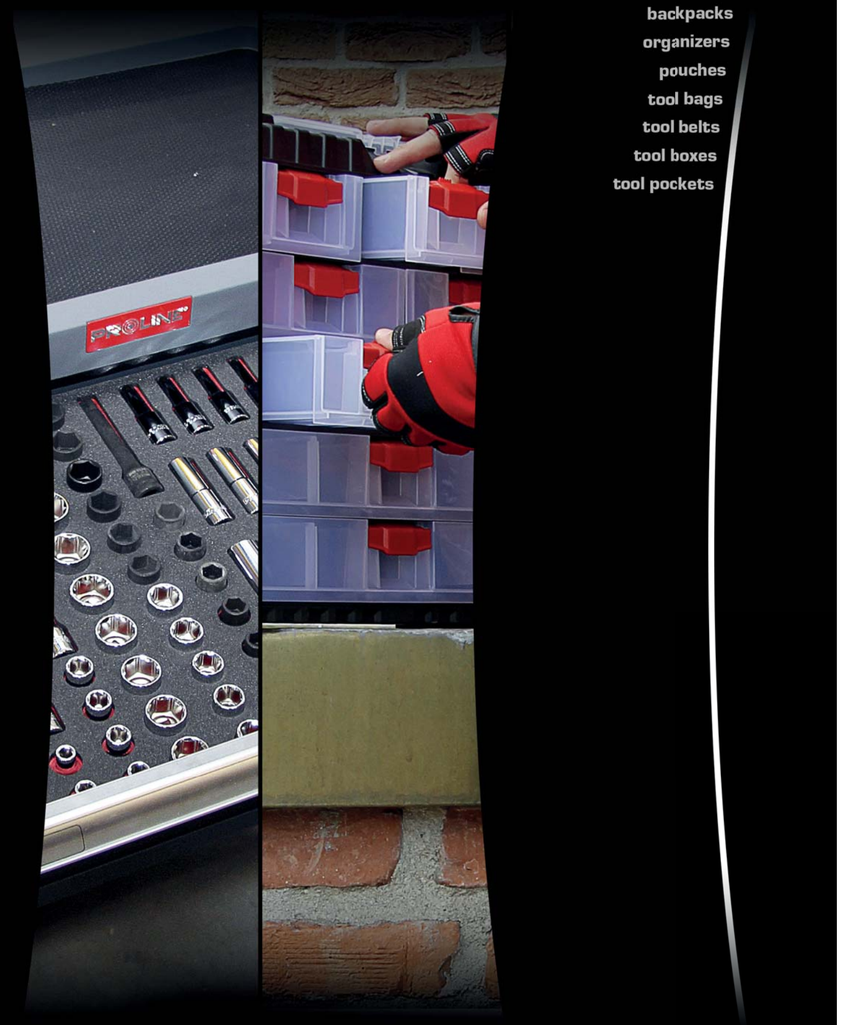



- Made from high quality nylon • Resistant to UV rays • Smooth, rounded tie edges, protecting cables from abrasion • Available white and black • Single-use only • Useful temperatures from -20°C to +50°C • Narrowed ending section facilitating tie clamping

Code	Length (mm)	Width (mm)		
		WHITE		
59110B	100	2.5	x	250/500
59120B	200	2.5	x	125/250
59130B	300	3.6	x	65/130
59121B	200	4.8	x	75/150
59131B	300	4.8	x	50/100
59140B	400	4.8	x	40/80
		BLACK		
59110C	100	2.5	x	250/500
59120C	200	2.5	x	125/250
59130C	300	3.6	x	65/130
59121C	200	4.8	x	75/150
59131C	300	4.8	x	50/100
59140C	400	4.8	x	40/80

PROLINE

TOOL STORAGE



backpacks
organizers
pouches
tool bags
tool belts
tool boxes
tool pockets

1 TOOL BOXES WITH ALUMINIUM LOCKS

• ЯЩИКИ ДЛЯ ИНСТРУМЕНТОВ С АЛЮМИНИЕВЫМИ ЗАМКАМИ • WERKZEUGKÄSTEN MIT ALUMINIUM-SCHLÖSSERN



• Made of high quality materials • Cover with two built organizers • Robust and ergonomic handle • Internal tray holder • Strong closing • Dedicated for the workshop and home use • Suitable for storage of small and bigger elements • Metal pins in hinges (22" and 25") • **35716 with one buckle**

Code	Dimension (mm)	Dimension (cale)	
35716	398 x 200 x 186	16''	1
35718	458 x 257 x 227	18''	1
35722	550 x 267 x 270	22''	1
35725	597 x 285 x 320	25''	1

2 TOOL BOXES

• ЯЩИКИ ДЛЯ ИНСТРУМЕНТОВ • WERKZEUGKASTEN



• Made of high quality materials • Cover with two built organizers • Robust and ergonomic handle • Internal tray holder • Strong closing • Dedicated for the workshop and home use • Suitable for storage of small and bigger elements • Model 35737 with a single buckle

Code	Dimension (mm)	Dimension (cale)	
35737	398 x 200 x 186	16''	1
35738	458 x 257 x 227	18''	1
35739	550 x 267 x 270	22''	1
35740	597 x 285 x 320	25''	1

3 TOOL BOX WITH ALUMINIUM FRAME

• ЯЩИК ДЛЯ ИНСТРУМЕНТОВ С АЛЮМИНИЕВОЙ РУЧКОЙ
• WERKZEUGKASTEN MIT ALUMINIUMRAHMEN



• Made from high quality polypropylene • Aluminium frame ensuring comfortable grip • Cover with two integrated organisers • Increased volume

Code	Dimension (mm)	Dimension (cale)	
35748	458 x 257 x 245	18''	1

4 TOOL BOX WITH ALUMINIUM FRAME

• ЯЩИК ДЛЯ ИНСТРУМЕНТОВ С АЛЮМИНИЕВОЙ РУЧКОЙ
• WERKZEUGKASTEN MIT ALUMINIUMRAHMEN



• Made from high quality polypropylene • Aluminium frame ensuring comfortable grip • Cover with two integrated organisers • Increased volume • Metal pins in hinges

Code	Dimension (mm)	Dimension (cale)	
35752	550 x 267 x 277	22''	1

5 TOOL BOX WITH ALUMINIUM FRAME

• ЯЩИК ДЛЯ ИНСТРУМЕНТОВ С АЛЮМИНИЕВОЙ РУЧКОЙ
• WERKZEUGKASTEN MIT ALUMINIUMRAHMEN



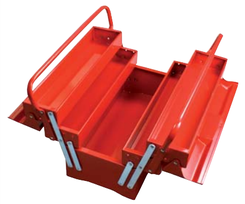
• Made from high quality polypropylene • Aluminium frame ensuring comfortable grip • Cover with two integrated organisers • Increased volume • Metal pins in hinges

Code	Dimension (mm)	Dimension (cale)	
35755	598 x 286 x 327	25''	1



1 METAL TOOL BOXES

• ИНСТРУМЕНТАЛЬНЫЙ МЕТАЛЛИЧЕСКИЙ ЯЩИК, 2 РУЧКИ
• METALLWERKZEUGKÄSTEN



Code	Dimension (mm)	Number of parts	
33403	404 x 200 x 240	3	1
33405	404 x 200 x 290	5	1

2 METAL TOOL BOXES

• ИНСТРУМЕНТАЛЬНЫЙ МЕТАЛЛИЧЕСКИЙ ЯЩИК, ОДНА РУЧКА
• METALLWERKZEUGKÄSTEN



Code	Dimension (mm)	Number of parts	
33553	550 x 200 x 157	3	1
33555	550 x 200 x 208	5	1

3 ORGANISERS

• ОРГАНАЙЗЕРЫ • ORGANIZER



• Made from high quality materials • Inner compartments arranging the organiser interior • Strong locks • Perfect in the workshop and at home • Good for petty and larger objects

Code	Dimension (mm)	Number of compartments	
35700	35 x 90 x 180	6	120
35701	35 x 160 x 200	5	60

4 ORGANISERS

• ОРГАНАЙЗЕРЫ • ORGANIZER



• Made from high quality materials • Inner compartments arranging the organiser interior • Strong locks • Perfect in the workshop and at home • Good for petty and larger objects • Handle for carrying and transport

Code	Dimension (mm)	Number of compartments	
35726	245 x 150 x 85	5	38
35727	295 x 195 x 85	5	24
35728	359 x 238 x 85	6	18
35729	400 x 298 x 85	6	12

5 ORGANISERS

PROLINE HD

• ОРГАНАЙЗЕРЫ • ORGANIZER



PP

• Made from high quality materials • System of compartments to arrange the organiser interior • Cover with appropriate shape, combined with interior compartments, prevents object dislocation • Strong locks
• Perfect in the workshop and at home
• Good for petty and larger objects • Handle for carrying and transport

Code	Dimension (mm)	Number of compartments	
35702	35 x 155 x 195	11	48
35703	35 x 195 x 290	21	60
35704	65 x 290 x 390	15	10
35710	65 x 390 x 490	18	6

6 ORGANISER

• ОРГАНАЙЗЕР • ORGANIZER

PROLINE HD



PP

• Made from high quality materials • System of removable, colourful compartments to arrange the organiser interior • Strong locks • Perfect in the workshop and at home
• Good for petty and larger objects • Handle for carrying and transport • Hooks on the back side for mounting on walls

Code	Dimension (mm)	Number of compartments	
35744	50 x 303 x 390	21	1

7 ORGANISER

PROLINE HD

• ОРГАНАЙЗЕР • ORGANIZER



PP

• Made from high quality materials • System of compartments to arrange the organiser interior • Cover with appropriate shape, combined with interior compartments, prevents object dislocation • Strong locks
• Perfect in the workshop and at home • Good for petty and larger objects • Handle for carrying and transport

Code	Dimension (mm)	Number of compartments	
35706	130 x 290 x 390	30	5

8 ORGANISERS

• ОРГАНАЙЗЕРЫ С РУЧКОЙ
• ORGANIZER

PROLINE HD



PP

• Made from high quality materials • Strong locks • Perfect in the workshop and at home
• Good for petty and larger objects • Handle for carrying and transport • Hooks on the back side for mounting on walls

Code	Dimension (mm)	Number of drawers	
35741	260 x 200 x 400	6	1
35743	392 x 200 x 400	9	1

1 OPEN TOOL BAG

• СУМКА ДЛЯ ИНСТРУМЕНТА, ОТКРЫТАЯ • OFFENE WERKZEUGTASCHE



- 30 pockets (5 inside, 13 outside, 12 pockets for drills and bits)
- Reinforced and stiffened
- Steel handle with soft rubber
- Soft, comfortable, adjustable shoulder strap

x30 | 600 D POLYESTER | HEAVY DUTY

Please note: the bag is sold without tools

Code	Dimension (mm)	
62149	500 x 230 x 280	4

2 TROLLEY BAG WITH PULL-OUT HANDLE

• СУМКА ДЛЯ С РУЧКОЙ, НА КОЛЕСАХ • TROLLEYTASCHE MIT AUSZIEHBAREM GRIFF



- 28 pockets (11 inside, 17 outside) • 2 wheels
- Retractable handle • Soft, comfortable, adjustable shoulder strap • Soft, comfortable handle
- Bag with a zip fastener

x28 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62151	510 x 290 x 360	6

3 TOOL BAG

• СУМКА ДЛЯ ИНСТРУМЕНТА • WERKZEUGTASCHE



- 25 pockets (15 inside, 10 outside)
- Soft, comfortable, adjustable shoulder strap
- The soft, comfortable handle
- Bag with a zip fastener

x25 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62161	610 x 270 x 400	6

4 TOOL BAG

• СУМКА ДЛЯ ИНСТРУМЕНТА • WERKZEUGTASCHE



- 49 pockets (10 inside, 39 outside)
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

x49 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62150	500 x 270 x 340	6

5 RUBBER BASE TOOL BAG

• СУМКА ДЛЯ ИНСТРУМЕНТА С РЕЗИНОВЫМ ДНОМ • WERKZEUGTASCHE MIT GUMMIBASIS



- 20 pockets (11 inside, 9 outside) plus 8 elastic strips plus one handle
- Waterproof rubber bag base, resistant to any mechanical damage, even in low temperatures
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

Please note: the bag is sold without tools

RUBBER | x20 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62138	380 x 260 x 320	12

6 TOOL BAG

• СУМКА ДЛЯ ИНСТРУМЕНТА • WERKZEUGTASCHE



- 16 pockets (6 inside, 10 outside)
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

x16 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62141	410 x 230 x 300	12

7 TOOL BAG

• СУМКА ДЛЯ ИНСТРУМЕНТА • WERKZEUGTASCHE



- 30 pockets (13 inside, 17 outside) plus spirit level holder
- Soft, comfortable, adjustable shoulder strap
- Soft, comfortable handle
- Bag with a zip fastener

x30 | 600 D POLYESTER | HEAVY DUTY

Code	Dimension (mm)	
62146	460 x 280 x 300	12

1 TOOL BACKPACK

• МОНТЕРСКИЙ РЮКЗАК ДЛЯ ИНСТРУМЕНТА • WERKZEUGRUCKSACK



x29 | 600 D POLYESTER | HEAVY DUTY

• 29 pockets (20 inside, 9 outside) • Soft, comfortable, adjustable shoulder straps
• 1 snap hook • Comfortable rubber handle
• The backpack has 2 separate compartments, each with a zip fastener

Please note: the backpack is sold without tools

Code	Dimensions (mm)	
62100	330 x 160 x 430	12

2 SLEEVELESS WORK JACKET

• МОНТЕРСКИЙ ЖИЛЕТ ДЛЯ ИНСТРУМЕНТА • ÄRMELLOSE ARBEITSJACKE



x8 | 600 D POLYESTER | HEAVY DUTY

• 8 pockets, 7 elastic belts for precision screwdrivers, 1 hammer holder; 1 snap hook
• Fully adjustable to any size

Please note: the jacket is sold without tools

Code	Dimensions (mm)	
52070	510 x 600	12

3 FOLDING CHAIR

• СКЛАДНОЙ СТУЛ • KLAPPSTUHL



600 D POLYESTER | HEAVY DUTY | max 90kg

• Steel structure • Wide scope of application, e.g. workshop works, fishing, mushroom picking, gardening, tourism

Code	Load (kg)	
62142	90	12

4 TOOL POUCH WITH BELT

• КАРМАН С ПОЯСОМ ДЛЯ ИНСТРУМЕНТА • WERKZEUGTASCHE MIT GÜRTEL



x7 | 600 D POLYESTER | HEAVY DUTY

• Belt fully adjustable to 117 cm
• 7 pockets, 5 holders, 1 snap hook

Please note: the pouch is sold without tools

Code	
52067	48

5 TOOL POUCH

• КАРМАН ДЛЯ ИНСТРУМЕНТОВ • WERKZEUGTASCHE



x11 | 600 D POLYESTER | HEAVY DUTY

• 1 large pocket, 10 smaller pockets
• Perfect for hand tools, nails, drills, bits

Please note: the pouch is sold without tools

Code	
52062	48

6 TOOL POUCH WITH HAMMER HOLDER

• КАРМАН ДЛЯ ИНСТРУМЕНТОВ С ДЕРЖАТЕЛЕМ ДЛЯ МОЛОТКА • WERKZEUGTASCHE MIT HAMMERHALTERUNG



x1 | 600 D POLYESTER | HEAVY DUTY

• Stainless steel handle

Please note: the pouch is sold without tools

Code	
52061	96

7 TOOL POUCH

• КАРМАН ДЛЯ ИНСТРУМЕНТОВ • WERKZEUGTASCHE



x8 | 600 D POLYESTER | HEAVY DUTY

• 2 large pockets plus 6 smaller ones, 3 holders for hammers and pliers

Please note: the pouch is sold without tools

Code	
52068	40

8 TOOL POUCH

• КАРМАН ДЛЯ ИНСТРУМЕНТОВ • WERKZEUGTASCHE



x1 | 600 D POLYESTER | HEAVY DUTY

• Perfect for hand tools, nails, drills, bits

Please note: the pouch is sold without tools

Code	
52063	96

9 POWER DRILL POUCH

• КОБУРА ДЛЯ АККУМУЛЯТОРНОЙ ДРЕЛИ • BOHRERTASCHE



x15 | 600 D POLYESTER | HEAVY DUTY

• 1 large pocket and 14 smaller pockets for drills, bits

Please note: the pouch is sold without tools

Code	
52066	24/48

10 POWER DRILL POUCH

• КОБУРА ДЛЯ АККУМУЛЯТОРНОЙ ДРЕЛИ • BOHRERTASCHE



x5 | 600 D POLYESTER | HEAVY DUTY

• 1 large pocket and 4 smaller pockets for drills, bits

Please note: the pouch is sold without tools

Code	
52064	96

1 HEAVY DUTY TOOL BELT WITH POUCHES

- УСИЛЕННЫЙ МОНТЕРСКИЙ ПОЯС ДЛЯ ИНСТРУМЕНТА С КАРМАНАМИ
- HOCHLEISTUNGS-WERKZEUGGÜRTEL MIT TASCHEN

x16 | 600 D POLYESTER | HEAVY DUTY

- Adjustable leather belt from 75 cm to 113 cm • 16 pockets, hammer holder and measuring tape holder



Code	
52016	8

Please note: the pouches on the belt are sold without tools

2 HEAVY DUTY TOOL BELT WITH POUCHES

- УСИЛЕННЫЙ МОНТЕРСКИЙ ПОЯС ДЛЯ ИНСТРУМЕНТА С КАРМАНАМИ
- HOCHLEISTUNGS-WERKZEUGGÜRTEL MIT TASCHEN

x21 | NYLON | HEAVY DUTY

- Adjustable leather belt from 80 cm to 115 cm • 21 pockets, 4 holders • Leather belt reinforcement



Code	
52012	8

Please note: the pouches on the belt are sold without tools

3 TOOL BELT WITH POUCHES

- МОНТЕРСКИЙ ПОЯС ДЛЯ ИНСТРУМЕНТА С КАРМАНАМИ
- WERKZEUGGÜRTEL MIT TASCHEN

x20 | 600 D POLYESTER | HEAVY DUTY

- Belt fully adjustable from 82 cm to 112 cm
- 20 pockets, 2 hammer holders plus 1 measuring tape holder



Code	
52020	24

Please note: the pouches on the belt are sold without tools

4 HEAVY DUTY TOOL BELT

- МОНТЕРСКИЙ ПОЯС • HOCHLEISTUNGS-WERKZEUGGÜRTEL



- Leather belt reinforcement
- Adjustable from 75 to 113 cm

600 D POLYESTER | HEAVY DUTY

Code	
52040	24

5 HEAVY DUTY TOOL BELT

- МОНТЕРСКИЙ ПОЯС УСИЛЕННЫЙ ДЛЯ КАРМАНОВ И КОБУР • HOCHLEISTUNGS-WERKZEUGGÜRTEL



- Leather belt reinforcement
- Adjustable leather belt from 80 cm to 115 cm

NYLON | HEAVY DUTY

Code	
52041	24

6 TOOL BELT

- МОНТЕРСКИЙ ПОЯС ДЛЯ КАРМАНОВ И КОБУР • WERKZEUGGÜRTEL



- Adjustable from 75 to 129 cm

600 D POLYESTER | HEAVY DUTY

Code	
52042	100

7 TIE DOWN STRAPS, 2 ELEMENTS

- РЕМНИ ДЛЯ КРЕПЛЕНИЯ ГРУЗОВ, ИЗ 2-Х ЧАСТЕЙ
- BINDEGURTE, 2 ELEMENTE

EN 12195-2 | PES



- Two-element tie down straps wyh ratchet mechanism
- MATERIAL: polyester • Mixed colours

Code	Length (m)	LC (load carrying)		Strap width (mm)	
		Straight hanging (daN)	Wrapping around (daN)		
46750	4	250	500	25	30
46751	6	250	500	25	30
46752	8	250	500	25	25
46760	4	1000	2000	35	10
46761	6	1000	2000	35	10
46762	8	1000	2000	35	10
46770	4	2500	5000	50	10
46771	6	2500	5000	50	10
46772	8	2500	5000	50	10
46773	10	2500	5000	50	8

PROLINE

GARDEN CARE TOOLS AND ACCESSORIES



- bags
- extension cords
- fittings
- garden hoses
- hose repairers
- pruning shears
- pitchforks
- rakes
- saws
- shears
- spades
- sprayers
- sprinklers
- stands
- quick connectors

1 GARDEN HOSE
• САДОВЫЙ ШЛАНГ • GARTENSCHLAUCH





4 LAYERS · 24bar · FLEXIBLE PVC · UV PROTECTED · ANTI ALGAE · +60°C -10°C · ALL SEASONS · Cd Pb Ba FDO · 5 YEARS

- 4-layer flexible PVC hose • Working pressure 8 bar • Burst pressure of 24 bar • Temperature range -10°C to +60°C • UV and algae resistant
- Cadmium, barium, lead, and phthalate free

Code	Dimensions	Length (m)	
99412	1/2"	20	1
99413	1/2"	30	1
99415	1/2"	50	1
99422	5/8"	20	1
99423	5/8"	30	1
99425	5/8"	50	1
99432	3/4"	20	1
99433	3/4"	30	1
99435	3/4"	50	1
99442	1"	20	1
99443	1"	30	1
99445	1"	50	1

2 GARDEN HOSE
• САДОВЫЙ ШЛАНГ - ПРЕМИУМ • GARTENSCHLAUCH





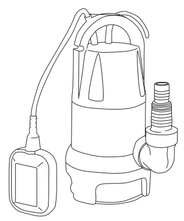
4 LAYERS · 30bar · FLEXIBLE PVC · UV PROTECTED · ANTI ALGAE · +60°C -25°C · ALL SEASONS · Cd Pb Ba FDO · 10 YEARS

- Double durability 4-layer flexible PVC hose with additives improving lowtemperature flexibility, resistant to bending and twisting • Working pressure 10 bar • Burst pressure of 30 bar • Temperature range -25°C to +60°C • UV and algae resistant • Cadmium, barium, lead, and phthalate free

Code	Dimensions	Length (m)	
99612	1/2"	20	1
99613	1/2"	30	1
99615	1/2"	50	1
99622	5/8"	20	1
99623	5/8"	30	1
99625	5/8"	50	1
99632	3/4"	20	1
99633	3/4"	30	1
99635	3/4"	50	1
99642	1"	20	1
99643	1"	30	1
99645	1"	50	1

3 SUBMERSIBLE PUMP GARDEN HOSE
• САДОВЫЙ ШЛАНГ ДЛЯ ПОГРУЖНЫХ НАСОСОВ • GARTENSCHLAUCH FÜR TAUCHPUMPEN





FLEXIBLE PVC · UV PROTECTED · ALL SEASONS · Cd Pb Ba FDO

- Professional pump delivery hose

Code	Dimensions	Length (m)	
99001	1"	10	1

1 GARDEN HOSE REEL

• ПОДСТАВКИ ДЛЯ САДОВЫХ ШЛАНГОВ • GARTENSCHLAUCHTROMMEL



ABS PP METAL

• Easy installation without tools • Collapsible handle makes storage easier

Code	Length	
99391	45 m x 1/2" • 25 m x 3/4"	5
99392	60 m x 1/2" • 40 m x 3/4"	5

2 GARDEN HOSE CART

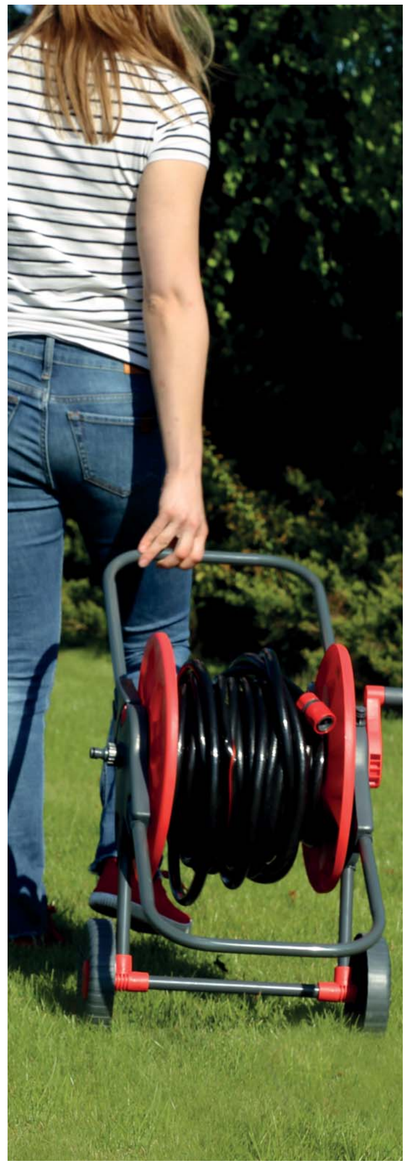
• ТЕЛЕЖКИ ДЛЯ САДОВОГО ШЛАНГА • GARTENSCHLAUCHWAGEN



METAL ABS PP

• Easy installation without tools • Collapsible handle makes storage easier

Code	Length	
99393	45 m x 1/2" • 25 m x 3/4"	5
99394	60 m x 1/2" • 40 m x 3/4"	5



1 QUICK HOSE CONNECTORS

• КОННЕКТОРЫ СКВОЗНЫЕ • SCHNELLV ERBINDUNG - KUPPLUNG



99200
99204

99500 (30 pcs.)
99504 (30 pcs.)

99201
99205

1/2" 3/4" ABS PP

Code	Dimensions	Packaging	
99200	1/2"	BULK	30/180
99201	1/2"	CARD	50/200
99500	1/2"	BOX	6
99204	3/4"	BULK	30/180
99205	3/4"	CARD	50/200
99504	3/4"	BOX	6

3 QUICK HOSE CONNECTORS WITH STOP

• КОННЕКТОРЫ БЛОКИРУЮЩИЕ
• SCHNELLE SCHLAUCHANSCHLÜSSE MIT STOPP



99202
99206



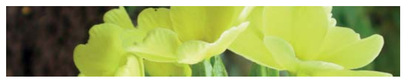


99203
99207

99502 (30 pcs.)
99506 (30 pcs.)

1/2" 3/4" AUTO STOP ABS PP

Code	Dimensions	Packaging	
99202	1/2"	BULK	30/180
99203	1/2"	CARD	50/200
99502	1/2"	BOX	6
99206	3/4"	BULK	30/180
99207	3/4"	CARD	50/200
99506	3/4"	BOX	6



5 TWO WAY COUPLINGS

• АДАПТЕРЫ -ДВУХКАНАЛЬНЫЕ • KUPPLUNG



99218



99219



99518 (30 pcs.)

ABS

• Connector for 2 hoses using quick connections

Code	Packaging	
99218	BULK	30/180
99219	CARD	50/200
99518	BOX	6

2 FEMALE THREAD TAP CONNECTORS

• АДАПТЕРЫ С ВНУТРЕННЕЙ РЕЗЬБОЙ • VERBINDER MIT INNENGEWINDE



99208
99210
99212



99209
99211
99213





99508 (30 pcs.)
99510 (30 pcs.)
99512 (30 pcs.)

1/2" 3/4" 1" ABS

Code	Dimensions	Packaging	
99208	1/2"	BULK	30/180
99209	1/2"	CARD	50/200
99508	1/2"	BOX	6
99210	3/4"	BULK	30/180
99211	3/4"	CARD	50/200
99510	3/4"	BOX	6
99212	1"	BULK	30/180
99213	1"	CARD	50/200
99512	1"	BOX	6



4 MALE THREAD TAP CONNECTORS

• АДАПТЕРЫ С ВНЕШНЕЙ РЕЗЬБОЙ • VERBINDER MIT AUSSENGEWINDE



99214



99215



99514 (30 pcs.)

3/4" ABS

Code	Dimensions	Packaging	
99214	3/4"	BULK	30/180
99215	3/4"	CARD	50/200
99514	3/4"	BOX	6

6 THREE WAY COUPLINGS

• РАСПРЕДЕЛИТЕЛИ ТРЕХКАНАЛЬНЫЕ • Y-KUPPLUNG



99216



99217



99516 (pcs.)

ABS

• Connector for 3 hose endings using quick connections

Code	Packaging	
99216	BULK	30/180
99217	CARD	50/200
99516	BOX	6

1 MENDERS

• МУФТЫ РЕПАРАТОРНЫЕ • REPARATOR



99220
99222

99520 (30 pcs.)
99522 (30 pcs.)

99221
99223

1/2" 3/4" ABS PP

• Mender for permanent connection of 2 hose ends

Code	Dimensions	Packaging	
99220	1/2"	BULK	30/180
99221	1/2"	CARD	50/200
99520	1/2"	BOX	6
99222	3/4"	BULK	30/180
99223	3/4"	CARD	50/200
99522	3/4"	BOX	6



3 QUADRUPLE CONNECTOR

• РАСПРЕДЕЛИТЕЛЬ ЧЕТЫРЕХКАНАЛЬНЫЙ • VIERFACHSTECKER



3/4" 1" ABS PP

• Connector enables to connect 2 hose ends to the water intake by means of quick connections • Each connection has adjustable water flow

Code		
99241	x	6/36

5 MECHANICAL WATER TIMER

• МЕХАНИЧЕСКИЙ ТАЙМЕР - 2 ЧАСА • MECHANISCHE WASSERUHR



3/4" 1" ABS PP 0-2 h

• Timer with automatic switch • Manual watering time setting to max. 2h

Code		
99245	x	12/24

2 FEMALE THREAD TAP CONNECTORS WITH ADAPTOR

• АДАПТЕРЫ С ВНУТРЕННЕЙ РЕЗЬБОЙ И РЕДУКЦИЕЙ • VERBINDER MIT INNENGEWINDE MIT REDUKTION



99230
99232



99231
99233



99530 (30 pcs.)
99532 (30 pcs.)

3/4" 1" 3/4" 1/2" ABS

Code	Dimensions	Packaging	
99230	3/4" - 1"	BULK	30/180
99231	3/4" - 1"	CARD	50/200
99530	3/4" - 1"	BOX	6
99232	1/2" - 3/4"	BULK	30/180
99233	1/2" - 3/4"	CARD	50/200
99532	1/2" - 3/4"	BOX	6

4 DOUBLE CONNECTOR

• РАСПРЕДЕЛИТЕЛЬ ДВУХКАНАЛЬНЫЙ • 2-WEGE-VERTEILER



3/4" 1" ABS PP

• Connector enables to connect 2 hose ends to the water intake by means of quick connections • Each connection has adjustable water flow

Code		
99243	x	24/144

6 STRAIGHT SPRINKLERS

• ОРОСИТЕЛИ ПРЯМЫЕ • REGNER GERADE

99300



99301





99600 (25 pcs.)

ABS PP

• Point and cone-shaped stream - smooth adjustment

Code	Packaging	
99300	BULK	25/150
99301	CARD	12/48
99600	BOX	6

PROLINE

1 STRAIGHT SPRAY GUNS

• ОРОСИТЕЛИ ПИСТОЛЕТНЫЕ, ПРЯМЫЕ
• BEWÄSSERUNGSSPRITZE GERADE



• Permanent operation lock • Smooth control of water jet from a strong point one to a delicate mist

Code	Packaging	
99302	BULK	6/36
99303	CARD	12/48
99602	BOX	6

2 SPRAY GUNS 9 FUNCTIONS

• ОРОСИТЕЛИ ПИСТОЛЕТНЫЕ 9-ФУНКЦИОНАЛЬНЫЕ • PISTOLENSPRITZE 9-FUNKTIONEN



• Permanent operation lock • Incremental water jet control in 9 different positions

Code	Packaging	
99304	BULK	4/24
99305	CARD	12/48
99604	BOX	6

3 120° FAN SPRAY NOZZLE, SWIVEL

• ОРОСИТЕЛЬ 120° ПРЯМОЙ, РЕГУЛИРУЕМЫЙ
• BEWÄSSERUNGSSPRITZE 1200 GEBOGEN



• Adjustment of head inclination • Push button switch

Code		
99307	x	12/48



5 SPRAY GUN, 9 FUNCTION, METAL BODY

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ, 9-ФУНКЦИОНАЛЬНЫЙ, МЕТАЛИЧЕСКИЙ • PISTOLENSPRITZE 9-FUNKTIONEN, METALL



• Permanent operation lock • Incremental water jet control in 9 different positions

Code		
99311	x	12/48

7 SPRAY GUN DELUXE 11

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ, ПРЯМОЙ DELUXE 11
• PISTOLENSPRITZE DELUXE 11



• Permanent operation lock • Stream force control

Code		
99315	x	6/24

4 SPRAY GUN, 6 FUNCTIONS, SWIVEL

• ОРОСИТЕЛЬ ПРЯМОЙ, 6-ФУНКЦИОНАЛЬНЫЙ, РЕГУЛИРУЕМЫЙ
• SPRITZPISTOLE, 6 FUNKTIONEN, SCHWENKBAR



• Adjustment of head inclination • Incremental water jet control in 6 different positions
• Push button switch

Code		
99309	x	24

6 STRAIGHT SPRAY GUN BRASS

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ BRASS, ПРЯМОЙ, ЛАТУННЫЙ
• PISTOLENSPRITZE BRASS01 GERADE, MESSING



• Point and cone-shaped stream - smooth adjustment • Permanent operation lock

Code		
99313	x	12/48

8 SPRAY GUN DELUXE 12 - 9 FUNCTIONS

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ DELUXE 12, 9-ФУНКЦИОНАЛЬНЫЙ
• PISTOLENSPRITZE DELUXE 12 - 9-FUNKTIONEN



• Incremental water jet control in 9 different positions

Code		
99317	x	6/24

1 STRAIGHT SPRINKLER KIT
• НАБОР С ПРЯМЫМ ОРОСИТЕЛЕМ • SET MIT GERADER SPRITZE



1/2" | 1/2" 3/4" | ABS PP | x4

Code		
99331	x	12/48

2 SPRAY GUN KIT
• НАБОР С ПИСТОЛЕТНЫМ ОРОСИТЕЛЕМ
• SET MIT PISTOLENSPRITZE



1/2" | 1/2" 3/4" | ABS PP | x4

Code		
99333	x	6/36

3 SPRAY GUNS
• ОРОСИТЕЛИ ПИСТОЛЕТНЫЕ, ПРЯМЫЕ
• BEWÄSSERUNGSSPRITZE GERADE

99335



99334





99634
(6 pcs.)

ABS PP

- Permanent operation lock
- Water jet control by pressing a trigger

Code	Packaging	
99334	BULK	6/36
99335	CARD	12/48
99634	BOX	6



4 OSCILLATING SPRINKLER 15 BRASS NOZZLES
• МАЯТНИКОВЫЙ ОРОСИТЕЛЬ - 15 СОПЕЛ • OSZILLIERENDER SPRINKLER 15 MESSINGDÜSEN



max 146m² | Zn-Cu | ABS PP | x 15

- Four-step sprinkling direction control

Code		
99351	x	12

5 OSCILLATING SPRINKLER 15 NOZZLES
• МАЯТНИКОВЫЙ ОРОСИТЕЛЬ - 15 СОПЕЛ • OSZILLIERENDER SPRINKLER 15 DÜSEN



max 151m² | ABS PP | x 15

- Four-step sprinkling direction control

Code		
99353	x	12

PROLINE

1 STATIC SINGLE-FEATURE SPRINKLER

• СТАЦИОНАРНЫЙ ОРОСИТЕЛЬ ОДНОФУНКЦИОНАЛЬНЫЙ
• STATISCHER REGNER



- Perfect for small areas
- Possible to connect several spray guns in series

Code		
99355	x	12/48

2 STATIC 5-FEATURE SPRINKLER

• СТАЦИОНАРНЫЙ ОРОСИТЕЛЬ 5-ФУНКЦИОНАЛЬНЫЙ
• STATISCHER REGNER, 5-FUNKTIONEN



- Perfect for small areas • Incremental water jet control in 5 different positions

Code		
99357	x	12/48

3 ROTARY SPRINKLER

• ВРАЩАЮЩИЙСЯ ОРОСИТЕЛЬ • KREISREGNER



- 18 outlets • Three-arm spray gun with adjustable rotary speed of the sprayed surface by nozzle turning

Code		
99359	x	12/48

4 METAL ROTARY SPRINKLER

• ОРОСИТЕЛЬ ВРАЩАЮЩИЙСЯ, МЕТАЛЛИЧЕСКИЙ
• METALL-DREHSPRINKLER



Code	Packaging	
99383	Cardboard box	12

5 PULSATING SPRINKLER

• ПУЛЬСИРУЮЩИЙ ОРОСИТЕЛЬ • IMPULSREGNER



- Possible to connect several spray guns in series

Code		
99361	x	12/48



6 METAL PULSATING ROTARY SPRINKLER

• ОРОСИТЕЛЬ ПУЛЬСИРУЮЩИЙ, СЕКТОРНЫЙ МЕТАЛЛИЧЕСКИЙ
• SEKTOREN-IMPULSREGNER AUS METALL



- Several sprinklers can be connected in series • Adjustable sprinkling angle

Code		
99385	x	12/24

7 METAL PULSATING SPLINKLER

• ОРОСИТЕЛЬ ПУЛЬСИРУЮЩИЙ, ВРАЩАЮЩИЙСЯ, МЕТАЛЛИЧЕСКИЙ • SEKTOREN-IMPULSREGNER AUS METALL



- Several sprinklers can be connected in a series • 360° rotation

Code		
99387	x	12/24

8 120° FAN SPRAY NOZZLE DELUXE 03

• ОРОСИТЕЛЬ ПРЯМОЙ 120° DELUXE 03 • REGNER 120 GR. DELUXE03



- Spray gun start by a knob on the handle

Code		
99369	x	6/24

9 SPRAY GUN DELUXE 01 - 9 FUNCTIONS

• ОРОСИТЕЛЬ DELUXE 01 ПРЯМОЙ, 9-ФУНКЦИОНАЛЬНЫЙ
• REGNER DELUXE 01 -9-FUNKTIONEN



- Incremental water jet control in 9 different positions • Spray gun start by a knob on the handle

Code		
99365	x	6/24

1 PATTERN SHOWER LANCE

• ОРОСИТЕЛЬ DELUXE 04 ПРЯМОЙ, 9-ФУНКЦИОНАЛЬНЫЙ
• DELUXE04 - 9-FUNKTIONEN



PP AL

• Incremental water jet control in 9 different positions • Spray gun start by a knob on the handle

Code		
99371	x	12

2 SPRAY GUN DELUXE 02

• ОРОСИТЕЛЬ ПРЯМОЙ DELUXE 02 • REGNER DELUXE 02



METAL ABS PP

• Control of water jet from a strong point one to a delicate mist • Spray gun start by a knob on the handle

Code		
99367	x	6/24

3 SPRAY GUN, BRASS TRIGGER NOZZLE - 3 FUNCTIONS

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ ПРЯМОЙ ЛАТУННЫЙ 3-ФУНКЦИОНАЛЬНЫЙ • PISTOLENSPRITZE GERADE 3-FK MESSING BRASS02



ABS BRASS

• Control of water jet from a strong point one to a delicate mist • 3-step permanent work lock

Code		
99373	x	12/48

4 SPRAY GUN, BRASS TRIGGER NOZZLE

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ ПРЯМОЙ ЛАТУННЫЙ
• PISTOLENSPRITZE GERADE 3-FK MESSING BRASS02



ABS BRASS

• Control of water jet from a strong point one to a delicate mist • Permanent operation lock

Code		
99375	x	12/48

5 SPRAY GUN KIT, BRASS ADJUSTABLE NOZZLES 4 PC.

• НАБОР С ПИСТОЛЕТНЫМ ПРЯМЫМ ОРОСИТЕЛЕМ 4 ШТ.
• SATZ MIT SPRITZE - 4-TLG. BRASS05



ABS BRASS

• Smooth control of water jet from a strong point one to a delicate mist • 3-step permanent work lock

Code		
99381	x	6/24

6 SPRAY GUN DELUXE 16

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ, МЕТАЛЛИЧЕСКИЙ DELUXE 16
• M ETALL PISTOLENSPRITZE DELUXE 16



METAL ABS

• Control of water jet
• Permanent operation lock

Code		
99325	x	12/48

7 BRASS ADJUSTABLE NOZZL

• ОРОСИТЕЛЬ ПРЯМОЙ ЛАТУННЫЙ • PISTOLENSPRITZE GERADE MESSING BRASS02



PP BRASS

• Smooth control of water jet from a strong point one to a delicate mist

Code		
99377	x	24/96

8 SPRAY GUN DELUXE 17 - 8 FUNCTIONS

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ, МЕТАЛЛИЧЕСКИЙ DELUXE 17, 8-ФУНКЦИОНАЛЬНЫЙ • M ETALL PISTOLENSPRITZE DELUXE 17

• Incremental water jet type adjustment in 8 different positions

METAL ABS

Code		
99327	x	12/48



9 SPRAY GUN DELUXE 18

• ОРОСИТЕЛЬ ПИСТОЛЕТНЫЙ, МЕТАЛЛИЧЕСКИЙ DELUXE 18, 10-ФУНКЦИОНАЛЬНЫЙ • M ETALL PISTOLENSPRITZE DELUXE 18



• Incremental water jet type adjustment in 10 different positions

METAL ABS

Code		
99329	x	6/12

1 SPRAY GUN, SPRINKLER AND ACCESSORIES KIT, 313 PCS

• НАБОР ВОДНОЙ СИСТЕМЫ, 313 ЭЛЕМЕНТОВ • VERBINDER- UND SPRITZENSATZ, 313-TLG .





Code	Opis	The quantity
99200	quick hose connector 1/2"	18
99202	quick hose connector with stop 1/2"	36
99204	quick hose connector 3/4"	18
99206	quick hose connector with stop 3/4"	18
99216	three way coupling	28
99218	two way coupling	45
99220	mender 1/2"	22
99222	mender 3/4"	35
99230	female thread tap connector 3/4"-1"	22
99232	female thread tap connector 3/4"-1"	35
99300	straight sprinkler	22
99304	spray gun 9 functions	6
99360	pulsing sprinkler 415 m²	8

ABS PP

Code	BOX	
99800	x	1



1 PITCHFORK, WOODEN SHAFT

• ВИЛЫ САДОВЫЕ, ДЕРЕВЯННЫЙ ЧЕРЕНОК • HEUGABEL, HOLZSTIEL



• Classic pitchfork

Code	Dimensions (mm)	
12398	1200 x 230 x 310	6

2 PITCHFORK, METAL SHAFT

• ВИЛЫ САДОВЫЕ, МЕТАЛЛИЧЕСКИЙ ЧЕРЕНОК
• HEUGABEL, METALL STIEL



• Classic pitchfork

Code	Dimensions (mm)	
12397	1200 x 230 x 310	6

3 DIGGING FORK, WOODEN SHAFT

• ВИЛЫ ДЛЯ КОПАНИЯ, ДЕРЕВЯННЫЙ ЧЕРЕНОК • HEUGABEL ZUM GRABEN, HOLZSTIEL



• Wide teeth, perfect for digging

Code	Dimensions (mm)	
12396	1200 x 200 x 290	6

4 DIGGING FORK, METAL SHAFT

• ВИЛЫ ДЛЯ КОПАНИЯ, МЕТАЛЛИЧЕСКИЙ ЧЕРЕНОК • HEUGABEL ZUM GRABEN, METALL STIEL



• Wide teeth, perfect for digging

Code	Dimensions (mm)	
12395	1200 x 200 x 290	6

5 SHAFTS FOR RAKE

• ЧЕРЕНКИ ДЛЯ ГРАБЛЕЙ • STIELE FÜR RECHEN

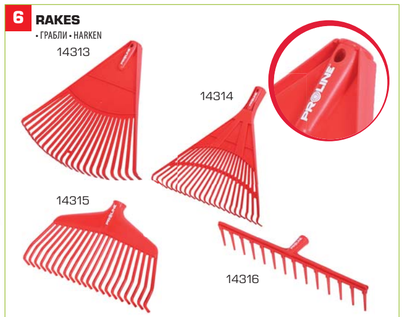


• Easy tool-free click installation • Handles fit to removable Proline heads: 14313, 14314, 14315, and 14316

Code	Material	Length (mm)	Diameter (mm)	
14311	pine wood	1500	22	10
14312	aluminum	1600	22	10

6 RAKES

• ГРАБЛИ • HARKEN



• Easy tool-free click installation • Durable, flexible teeth made from high quality plastic • Handles fit to removable Proline heads: 14313, 14314, 14315, and 14316

Code	Type	Width (mm)	Quantity of teeth	
14313	leaf rakes	490	22	10
14314	leaf rakes	500	22	10
14315	small for leafs	380	21	10
14316	universal for hay	540	14	10



1 HAND PRUNER PREMIUM

• СЕКАТОР САДОВЫЙ ПРЕМИУМ - КОВАНЫЙ • GARTENSCHERE



max 20 mm · HRC 50±2

• Scissor type • Carbon steel blade, quenched
• Handles coated with wood

Code	Max. cutting diameter (mm)		
40016	20	x	12/60

2 HAND PRUNER PREMIUM

• СЕКАТОР САДОВЫЙ ПРЕМИУМ ДЛЯ ЦВЕТОВ -КОВАНЫЙ
• GARTENSCHERE PREMIUM FÜR BLUMEN - GESCHMIEDET



max 20 mm · HRC 50±2

• Scissors type • Carbon steel, quenched blade
• Handles coated with wood

Code	Max. cutting diameter (mm)		
40017	20	x	12/60

3 HAND PRUNER PREMIUM

• СЕКАТОР САДОВЫЙ С НАКОВАЛЕНКОЙ ПРЕМИУМ
• GARTENSCHERE



max 16 mm · HRC 46±2 · 65 Mn · PTFE

• Anvil type • Manganese steel blade
• Two-component non-slip handle – ABS/TPR

Code	Max. cutting diameter (mm)		
40019	16	x	12/48

4 HAND PRUNER PREMIUM

• СЕКАТОР САДОВЫЙ ПРЕМИУМ • GARTENSCHERE



max 16 mm · HRC 46±2 · 65 Mn · PTFE

• Scissor type • Manganese steel blade
• Two-component non-slip handle – ABS/TPR

Code	Max. cutting diameter (mm)		
40018	16	x	12/48

5 HAND PRUNER

• СЕКАТОР САДОВЫЙ
• GARTENSCHERE



max 25 mm · HRC 50±2

• Forged blade
• Very long lifecycle and reliable work

Code	Max. cutting diameter (mm)		
40012	25	x	6/48

6 HAND PRUNERS

• СЕКАТОРЫ САДОВЫЕ • GARTENSCHEREN



PTFE · HRC 50±2

• Reliable work in intense use

Code	Max. cutting diameter (mm)		
40008	12	x	10/60
40015	19	x	12/48

7 HAND PRUNER

• СЕКАТОР САДОВЫЙ С НАКОВАЛЕНКОЙ • GARTENSCHERE



max 19 mm · PTFE · HRC 50±2

• Anvil type, two-component handle

Code	Max. cutting diameter (mm)		
40013	19	x	12/72

8 HAND PRUNER

• СЕКАТОР САДОВЫЙ • GARTENSCHERE



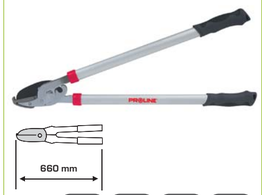
max 19 mm · PTFE · HRC 50±2

• Scissor type • Two-component handle

Code	Max. cutting diameter (mm)		
40011	19	x	12/72

9 BYPASS LOPPERS PREMIUM

• СУЧКОРЕЗ ПРЕМИУМ • ASTSCHERE



max 32 mm · 65 Mn · PTFE · HRC 46±2

• Anvil type • Manganese steel blade
• Aluminium arms • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40032	32	x	6/12

10 BYPASS LOPPERS PREMIUM

• СУЧКОРЕЗ ПРЕМИУМ • ASTSCHERE



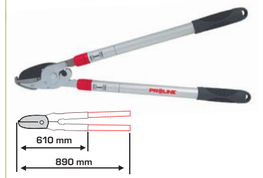
max 32 mm · 65 Mn · PTFE · HRC 46±2

• Anvil type • Manganese steel blade
• Telescopic aluminium arms • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40033	32	x	6/12

11 BYPASS LOPPERS PREMIUM

• СУЧКОРЕЗ ПРЕМИУМ • ASASTSCHERE PREMIUM



max 38 mm · 65 Mn · PTFE · HRC 46±2

• Anvil-type • Manganese blade, coated
• Telescopic aluminium arms with adjustable lenght • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40034	38	x	6/12

1 BYPASS LOPPERS PREMIUM

• СУЧКОРЕЗ ПРЕМИУМ • ASASTSCHERE PREMIUM



max 32 mm | 65 Mn | PTFE | HRC 46±2

• Scissors-type • Manganese blade • Telescopic aluminium arms • Non-slip TPR handle

Code	Max. cutting diameter (mm)		
40035	32	x	6/12

5 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE





max 40 mm | PTFE | HRC 50±2

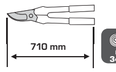
Code	Max. cutting diameter (mm)		
40026	40	x	6



3 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE





max 34 mm | PTFE | HRC 50±2

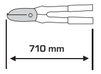
• Aluminium arms

Code	Max. cutting diameter (mm)		
40028	34	x	6

6 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE





max 44 mm | PTFE | HRC 50±2

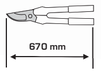
• Aluminium arms • Anvil type
• Lever mechanism ensuring easier cutting

Code	Max. cutting diameter (mm)		
40031	44	x	6

2 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHEREN





max 44 mm | HRC 50±2

Code	Max. cutting diameter (mm)		
40040	44	x	6

4 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE





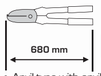
max 40 mm | PTFE | HRC 50±2

Code	Max. cutting diameter (mm)		
40024	40	x	12

7 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE





max 40 mm | PTFE | HRC 50±2

• Anvil type with anvil position adjustment

Code	Max. cutting diameter (mm)		
40027	40	x	6

PROLINE

1 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE



• Anvil type with anvil position adjustment

Code	Max. cutting diameter (mm)		
40025	38	x	6

2 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE



• Lever mechanism ensuring easier cutting

Code	Max. cutting diameter (mm)		
40030	32	x	6

3 BYPASS LOPPERS

• СУЧКОРЕЗ • ASTSCHERE



• Aluminium arms, telescopic, with adjustable length • Lever mechanism ensuring easier cutting

Code	Max. cutting diameter (mm)		
40042	30	x	6

4 HEDGE SHEARS PREMIUM

• НОЖНИЦЫ ДЛЯ ЖИВОЙ ИЗГОРОДИ • HECKENSCHEREN PREMIUM



• Wavy blades from manganese steel • Blade pressure adjustment • Telescopic aluminium arms with adjustable lenght • Non-slip TPR handle

Code	Blade length (mm)		
40036	210	x	12

5 HEDGE SHEARS TELESCOPIC PREMIUM

• НОЖНИЦЫ ДЛЯ ЖИВОЙ ИЗГОРОДИ ТЕЛЕСКОПИЧЕСКИЕ ПРЕМИУМ • HECKENSCHERE AUSZIEHBAR PREMIUM



• Wavy blades from manganese steel • Blade pressure adjustment • Telescopic aluminium arms with adjustable length • Non-slip TPR handle

Code	Blade length (mm)		
40037	210	x	12

6 HEDGE SHEARS

• НОЖНИЦЫ ДЛЯ ЖИВОЙ ИЗГОРОДИ • HECKENSCHERE



• Wavy blade • Blade pressure adjustment

Code	Blade length (mm)		
40045	200	x	6

7 HEDGE SHEARS

• НОЖНИЦЫ ДЛЯ ЖИВОЙ ИЗГОРОДИ • HECKENSCHERE



• Wavy blade • Blade pressure adjustment

Code	Blade length (mm)		
40050	250	x	6

1 GRASS SHEARS

• НОЖНИЦЫ ДЛЯ ТРАВЫ
• GRASSCHERE



• Single position

Code	Blade length (mm)		
40052	125	x	12/48

2 GRASS SHEARS

• НОЖНИЦЫ ДЛЯ ТРАВЫ • GRASSCHERE



• Three positions, rotational, enabling different angles of blade positioning: horizontal, vertical and gradient cutting

Code	Blade length (mm)		
40054	200	x	12/48

3 TELESCOPIC TREE PRUNER WITH SAW

• СЕКАТОР ТЕЛЕСКОПИЧЕСКИЙ С ПИЛОЙ ДЛЯ ВЕТОК
• AUSZIEHBARE BAUMSCHERE MIT SÄGE



max 24mm | 250 mm | SK5 | AL | HRC 46±2

• Lightweight aluminium design with an adjustable handle length • Garden shears with a simple cable mechanism • Additional screwed pruning saw

Code	Length (mm)	
40039	1410 - 2250	10

4 PREMIUM GARDEN SAW

• ПИЛА СКЛАДНАЯ ПРЕМИУМ • PREMIUM GARTENSÄGE



SK5 | HRC 45±2

• Blade lock • Two-component handle – ABS/TPR

Code	Blade length (mm)		
64426	145	x	12/48

5 UNIVERSAL GARDEN SAW

• УНИВЕРСАЛЬНАЯ САДОВАЯ ПИЛА
• UNIVERSAL GARTENSÄGE



300 mm | HRC 56±2

• Ergonomic handle with thumb profile, facilitates gradient cutting • Delivered with a sheath for the cutting part which can be fixed on a belt • Americanstyle teeth, quenched for fresh and moist wood, boards, planks and soft construction materials

Code	Blade length (mm)		
64430	300	x	6/24

6 ALUMINIUM GARDEN TOOLS FLORAL

• ИНСТРУМЕНТЫ САДОВО-ОГОРОДНЫЕ АЛЮМИНИЕВЫЕ FLORAL
• ALU-GARTENWERKZEUGE FLORAL



AL

Code	Type	
40080	wide trowel	12/72
40081	rake	12/72
40082	fork	12/72

7 ALUMINIUM GARDEN TOOLS

• САДОВЫЕ АЛЮМИНЕВЫЕ ИНСТРУМЕНТЫ
• ALU-GARTENWERKZEUGE



AL

• Rigid • Stainless • Ergonomic handles

Code	Type	
40065	wide trowel	25
40066	narrow trowel	25
40068	rake	12

8 FIBREGLASS GARDEN TOOLS

• САДОВЫЕ ИНСТРУМЕНТЫ ИЗ СТЕКЛОВОЛОКНА
• GL ASFASER-GARTENWERKZEUGE



FRP

• Rigid
• Ergonomic handles

Code	Type	
40060	wide trowel	25
40061	narrow trowel	25
40062	rake	25

9 STEEL GARDEN TOOLS

• САДОВЫЕ СТАЛЬНЫЕ ИНСТРУМЕНТЫ • STAHL-GARTENWERKZEUGE



• From hardened steel
• Ergonomic handles

Code	Type	
40070	wide trowel	24
40071	narrow trowel	24
40072	fork with pickaxe	24
40073	rake	24

PROLINE

1 WOVEN RUBBLE BAGS

• МЕШКИ (ПАКЕТЫ) ДЛЯ МУСОРА ТКАНЫЕ
• GEWEBTE SCHUTTBEUTEL



PP

x10

• To collect debris in the repair and construction work

Code	Dimensions (mm)	Packaging	
41216	600 x 1050	plastic bag	28
41217	700 x 1100	plastic bag	25

2 LDPE RUBBLE BAGS

• МЕШКИ (ПАКЕТЫ) ДЛЯ МУСОРА LDPE • LDPE SCHUTTBEUTEL



LPDE

SUPER STRONG

• Bags for household supplies • Renovation, construction

Code	Quantity in a pack (pcs.)	Volume (l)	
41206	10	80	5
41207	10	120	5

3 LDPE WASTE BAGS

• МЕШКИ (ПАКЕТЫ) ДЛЯ МУСОРА LDPE
• LDPE MÜLLSÄCKE



LPDE

• Bags for household supplies • Sold in packs of 8

Code	Quantity in a roll (pcs.)	Volume (l)	Colour	
41202	20	60	black	8/24
41203	10	120	black	8/24
41204	10	120	red	8/24
41205	10	120	green	8/24

4 EXTENSION CABLES IP44

• УДЛИНИТЕЛИ IP44 С ЗАЗЕМЛЕНИЕМ
• VERLÄNGERUNGSKABEL IP44



CE

IP44 | 4A 1100 W | x 1 | 3 x 1,5 mm² | max. 250 V

• Made from high quality materials • 1 grounded socket • Max load up to 4000W 16A with folded cable • Delivered in a plastic bag • Polish product
* with unfolded cable

Code	Max. load*	Length (m)	
PEP20UZ	4000W 16A	20	10



1 PREMIUM PRESSURE SPRAYERS

• ОПРЫСКИВАТЕЛИ ПРЕМИУМ • PREMIUM-DRUCKSPRÜHGERÄTE





max. 2,5 BAR

x30

• Expendable lance 490-880 mm • Shoulder strap included • High performance and ergonomics

Code	Volume (l)	
07905	5	6
07908	8	6

2 PREMIUM PRESSURE SPRAYERS

• ОПРЫСКИВАТЕЛИ ПРЕМИУМ • PREMIUM-DRUCKSPRÜHGERÄTE





max. 2,5 BAR

x30

• Long nozzle 90 mm • High efficiency and ergonomics

Code	Volume (l)	
07901	1.5	20
07902	2	10



3 SPRAYERS

• ОПРЫСКИВАТЕЛИ • SPRÜHER

079003
079007
079011



079015
079020



x20

Code	Volume (l)	
079015	1.5	15
079020	2	15
079003	3	6
079007	7	6
079011	11	6

4 KNAPSACK SPRAYER

• РУЧНОЙ ОПРЫСКИВАТЕЛЬ • RUCKSACK-SPRÜHER



x20

Code	Volume (l)	Qty of nozzles	
079016	16	4	1

5 TARPAULINS

• САДОВЫЕ ПОЛИЭТИЛЕНОВЫЕ АРМИРОВАННЫЕ ТЕНТЫ
• ABDECKPLANE



1m

UV

PE

110 g/m²

• 2-year resistance to UV rays • Reinforced edge and corners • Aluminium eyelets

Code	Dimensions (m +/- 5%)	
46423	2 x 3	30
46435	3 x 5	12
46445	4 x 5	9
46446	4 x 6	8
46458	5 x 8	5
46461	6 x 10	3
46481	8 x 12	2
46411	10 x 15	1

PROLINE®

1 TRIMMING LINE

• РЕЖУЩИЕ ЛЕСКИ (КАТУШКА) • TRIMMERSCHNUR



• For all hedge trimmers and string cutters available on the market

Code	Profile	Diameter	Length (mm)	Colour	
98214		2,4	90		27
98215		2,7	70		27
98216		3	56		27
98224		2,4	90		27
98225		2,7	70		27
98226		3	56		27
98234		2,4	90		27
98235		2,7	70		27
98236		3	56		27
98244		2,4	90		27
98245		2,7	70		27
98246		3	56		27
98254		2,4	90		27
98255		2,7	70		27
98256		3	56		27



SHOVELS, SPADES - PAGES 166-167
AXES - PAGES 167-168

2 TRIMMING LINE

• РЕЖУЩИЕ ЛЕСКИ (КАТУШКА) • TRIMMERSCHNUR





String design vs usability

string design	round	square	star	twisted square	reinforced square
cutting speed	★★★	★★★★	★★★★	★★★★	★★★★
durability	★★★★	★★★½	★★★	★★★½	★★★★½
quiet work	★★★	★★★½	★★★	★★★★★	★★★½

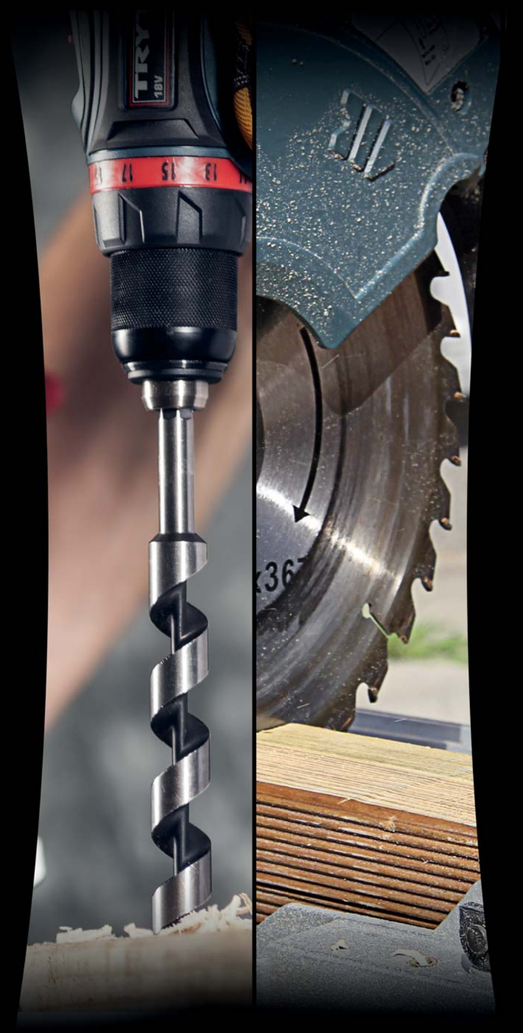
★ low parameter value ★★★★★ highest parameter value

- Made of high quality nylon • Strings with a round form with a diameter of 1,3 mm and 1,6 mm are used in trimmers (e.g. Tryton TOB650, TOB25301) for lawn care and cutting low grass
- Strings that are: round, spiral and square with diameters from 2 mm to 3 mm are used in combustion engine trimmers (e.g. Tryton TOP252S, TOP431S) for cutting high grass and weeds. In the case of these strings, work is easiest when the Easy-load automatic trimmer head is used (EATOP01)

Code	Profile	Diameter	Length (mm)	Colour	
98111		1,3	15		20 / 240
98112		1,6	15		20 / 240
98113		2	15		18 / 216
98114		2,4	15		16 / 192
98115		2,7	15		12 / 144
98116		3	15		10 / 120
98121		1,3	15		20 / 240
98122		1,6	15		20 / 240
98123		2	15		18 / 216
98124		2,4	15		16 / 192
98125		2,7	15		12 / 144
98126		3	15		10 / 120
98131		1,3	15		20 / 240
98132		1,6	15		20 / 240
98133		2	15		18 / 216
98134		2,4	15		16 / 192
98135		2,7	15		12 / 144
98136		3	15		10 / 120
98144		2,4	15		16 / 192
98145		2,7	15		12 / 144
98146		3	15		10 / 120
98154		2,4	15		16 / 192
98155		2,7	15		12 / 144
98156		3	15		10 / 120

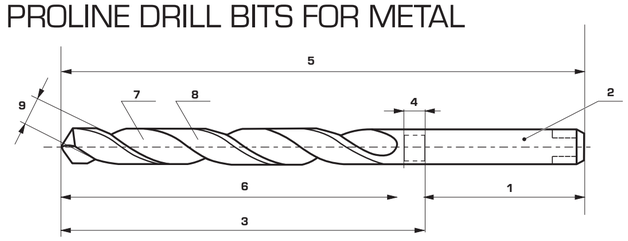
PROLINE®

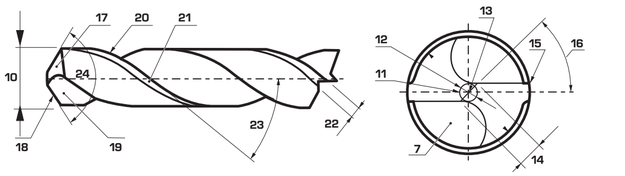
ACCESSORIES FOR POWER TOOLS



- adaptors
- accessories
- blades
- chisels
- circular saws
- discs
- drills
- hole saws
- router bits
- sand papers
- technical brushes
- and many others

PROLINE DRILL BITS FOR METAL





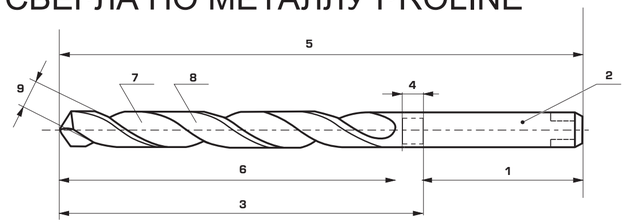
Structural elements of the drill

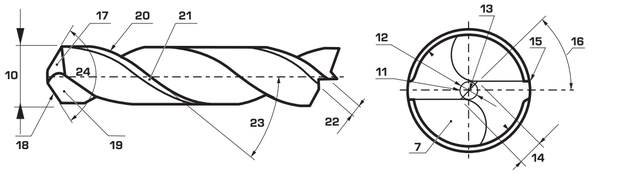
1 Grip
2 Straight shank
3 Body
4 Neck
5 Length total
6 Length of the flute
7 Flute
8 Drill land
9 Width of the land
10 Diameter of the drill bit
11 Web
12 Diameter of the web
13 Drill bit chisel edge
14 Chisel edge length
15 Crisp corner
16 Chisel angle
17 Flank
18 Cutting lip
19 Face
20 Auxiliary cutting edge
21 Margin
22 Width of the margin
23 Flute angle
24 Point angle



Description	Characteristics		Technical parameters
HSS DRILLS FOR METAL (without chisel modification)	Sharpened and normally ground, which allows these drills to be used for all ordinary drilling in steel, non-ferrous metals and plastics. The cutting angle is suitable to the machinability of the processed material. Benefits: strong main cutting edges, insensitive to impact and lateral forces. Simple cut, possibility of manual sharpening.	 conical cut	Point angle: 118° standard. Edge grinding: conical. Material: efficiency improved high-speed steel HSS
HSS DRILL BITS FOR METAL (with chisel modification)	Drill bits made entirely by grinding - they guarantee high accuracy and straight openings, and an efficiency several times higher than for roll-forged or surface-ground drills. Material – high speed steel of the highest quality. Increased abrasion resistance. Increased elasticity and resistance to torsional stress.	 two-chisel cut	Point angle of 135° with chisel modification – allows holes to be made quickly while saving time on making divots. Material: efficiency improved high-speed steel HSS
DRILL BITS FOR METAL HSS Co	For drilling in high-alloy steels, titanium, acid-resistant, stainless, heat-resistant steels and cast iron (strength above 900 N/m²) and other difficult to machine materials.	 two-chisel cut	Point angle 135° with chisel modification –allows quick drilling while saving time when making divots. High temperature resistance. Material: efficiency improved HSS high-speed steel Cobalt Co.
HSS TiN DRILL BITS FOR METAL	Drills made completely by grinding, coated with titanium nitride that increases the life of the drill bits and improves the quality of holes made	 two-chisel cut	Point angle of 135° with chisel correction – allows holes to be made quickly while saving time on making divots. Material: high-speed steel HSS coated with titanium nitride TiN

СВЕРЛА ПО МЕТАЛЛУ PROLINE





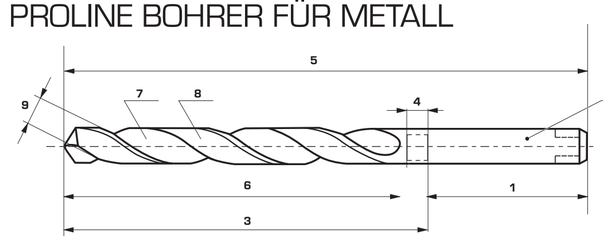
Конструкционные элементы сверла

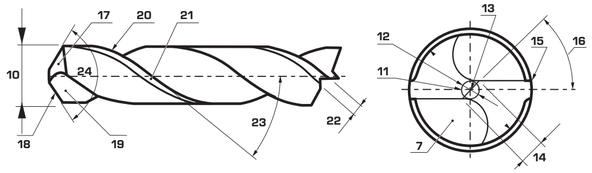
1 Держатель
2 Прямой хвостовик
3 Корпус
4 Шейка
5 Общая длина
6 Длина канавки
7 Канавка
8 Ленточка сверла
9 Ширина ленточки
10 Диаметр сверла
11 Перемычка
12 Диаметр перемычки
13 Лезвие сверла
14 Длина лезвия
15 Ломкий угол
16 Угол лезвия
17 Задняя грань
18 Режущая кромка
19 Режущая поверхность
20 Вспомогательная режущая кромка
21 Кромка
22 Ширина кромки
23 Угол канавки
24 Угол при вершине



Описание	Характеристики		Технические параметры
 **СВЕРЛА ПО МЕТАЛЛУ HSS (без модификации лезвия)**	Заточенные и шлифованные, что позволяет использовать эти сверла для обычного сверления стали, цветных металлов и пластмасс. Угол резания подходит для возможности обработки материала. Преимущества: прочные основные режущие кромки, нечувствительные к ударам и боковым нагрузкам. Простота реза, возможность ручной заточки.	 коническая резка	Угол при вершине: Стандарт 118°. Заточка кромки: коническая. Материал: улучшенная быстрорежущая сталь HSS
 **СВЕРЛА ПО МЕТАЛЛУ HSS (с модификацией лезвия)**	Сверла, изготовленные исключительно шлифованием - гарантируют высокую точность и прямолинейность отверстий, а эффективность в несколько раз выше, чем у штампованных или шлифованных сверл. Материал - высококачественная быстрорежущая сталь. Повышенная абразивная стойкость. Повышенная эластичность и устойчивость к скручивающим нагрузкам.	 резец с двумя лезвиями	Угол при вершине 135 ° с модификацией лезвия - позволяет быстро сверлить отверстия, экономя время на изготовление выемок. Материал: улучшенная быстрорежущая сталь HSS
 **СВЕРЛА ПО МЕТАЛЛУ HSS Co**	Для сверления высоколегированных, титановых, кислотостойких, нержавеющих сталей, жаропрочных сталей и чугуна (прочность выше 900 Н/м²) и других трудно обрабатываемых материалов.	 двукратный разрез	Угол наклона 135° с коррекцией сдвига - позволяет быстро делать отверстия, экономя время для простановки меток. Высокая термостойкость. Материал: сталь HSS для быстрой резки с кобальтовым покрытием Co.
 **СВЕРЛА ПО МЕТАЛЛУ HSS TiN**	Полностью шлифованные сверла покрытые нитридом титана, что увеличивает срок службы и повышает качество просверленных отверстий	 резец с двумя лезвиями	Угол при вершине 135 ° с модификацией лезвия - позволяет быстро сверлить отверстия, экономя время на изготовление выемок. Материал: быстрорежущая сталь HSS, покрытая нитридом титана TiN

PROLINE BOHRER FÜR METALL





Teile des Bohrers

1 Bohrerschaft
2 Schaftlänge
3 Spannnut
4 Einstich
5 Gesamtlänge
6 Spannnutlänge
7 Spannnut
8 Schneidteil
9 Breite des Schneidteils
10 Durchmesser des Bohrers
11 Kern
12 Kerndicke
13 Querschneide des Bohrers
14 Länge der Querschneide
15 Rückenkante
16 Querschneidewinkel
17 Hauptfreifläche
18 Hauptschneide
19 Spanfläche
20 Nebenschneide
21 Fase
22 Fasenbreite
23 Spannnutwinkel
24 Punktwinkel



Beschreibung	Eigenschaften		Technische Parameter
HSS-BOHRER FÜR METALL (ohne Modifikation der Querschneide)	Geschärft und normalerweise geschliffen, wodurch diese Bohrer für alle gewöhnlichen Bohrungen in Stahl, NE-Metallen und Kunststoffen verwendet werden können. Der Schnittwinkel ist für die maschinelle Bearbeitbarkeit des bearbeiteten Materials geeignet. Vorteile: starke Hauptschneidkanten, unempfindlich gegen Stöße und seitliche Kräfte. Einfacher Schnitt, manuelles Nachschärfen möglich.	 konischer Schnitt	Punktwinkel: 118°, standardmäßig. Kantenschliff: konisch Material: Hochleistungsschnellarbeitsstahl HSS
HSS-BOHRER FÜR METALL (mit Modifikation der Querschneide)	Vollständig durch Schleifen gefertigte Bohrer - stellen eine hohe Genauigkeit und gerade Öffnungen sowie einen um ein Vielfaches höheren Wirkungsgrad sicher als bei geschmiedeten oder oberflächengeschliffenen Bohrern. Material – Hochleistungsschnellarbeitsstahl der besten Qualität. Erhöhte Abriebfestigkeit. Erhöhte Elastizität und Beständigkeit gegen Torsionsbelastungen.	 Zwei-Querschneide-Schnitt	Punktwinkel von 135 ° mit Modifikation der Querschneide - ermöglicht das schnelle Durchführen von Bohrungen, wobei Zeit bei der Herstellung von Bohrlöchern gespart wird. Material: Hochleistungsschnellarbeitsstahl HSS
BOHRER FÜR METALL HSS Co	Für Bohrungen in in hochlegiertem Stahl, Titanstahl, säurebeständigen Stahl, Edelstahl, hitzebeständigem Stahl und Gusseisen (Festigkeiten über 900 N / m²) und anderen Materialien, deren Bearbeitung anspruchsvoll ist.	 Zweischnittschliff	Scheitelwinkel 135° mit Schnittkorrektur – ermöglicht das schnelle Durchführen von Bohrungen, wobei Zeit bei der Punktierung gespart wird. Hohe Temperaturbeständigkeit. Material: Hochleistungsschnellarbeitsstahl HSS mit Kobaltbeschichtung Co.
HSS TiN BOHRER FÜR METALL	Vollständig durch Schleifen gefertigte Bohrer, mit Titannitrid beschichtet, wodurch die Lebensdauer der Bohrer und die Qualität der Bohrlöcher gesteigert wird.	 Zwei-Querschneide-Schnitt	Punktwinkel von 135 ° mit Korrektur der Querschneide - ermöglicht das schnelle Durchführen von Bohrungen, wobei Zeit bei der Herstellung von Bohrlöchern gespart wird. Material: Hochleistungsschnellarbeitsstahl HSS mit Titannitridbeschichtung TiN

1 HSS TWIST DRILLS

• СВЕРЛА ПО МЕТАЛЛУ ИЗ СТАЛИ HSS
• METALL BOHRER HSS



(ZR)*

DIN 338 HSS

- **Nose angle standard 118°**
- **Ground edges** • Material - high-speed steel, refined
- Packed and sold in a plastic tube, rectangular; dimensions 0.3 - 8.0 mm 10 pcs each; dimensions 8.1 - 13.0 mm 5 pcs. each; dimensions 13.5 - 20.0 mm 1 pc each
- **(ZR)*** packed and sold in a case: 0.3 - 5.0 mm 3 pcs each; dimensions 5.1 - 20.0 mm 1 pc each

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)		Code (in the case)*
76003	0.3	3	19	10/200/1000	**ZR76003**
76004	0.4	5	20	10/200/1000	**ZR76004**
76005	0.5	6	22	10/200/1000	**ZR76005**
76006	0.6	7	30	10/200/1000	**ZR76006**
76007	0.7	9	34	10/200/1000	**ZR76007**
76008	0.8	10	36	10/200/1000	**ZR76008**
76009	0.9	12	38	10/200/1000	**ZR76009**
76010	1.0	14	38	10/200/1000	**ZR76010**
76011	1.1	16	40	10/200/1000	**ZR76011**
76012	1.2	16	43	10/200/1000	**ZR76012**
76013	1.3	18	46	10/200/1000	**ZR76013**
76015	1.5	20	46	10/200/1000	**ZR76015**
76016	1.6	22	49	10/200/1000	**ZR76016**
76018	1.8	22	49	10/200/1000	**ZR76018**
76019	1.9	24	53	10/200/1000	**ZR76019**
76020	2.0	24	53	10/200/1000	**ZR76020**
76021	2.1	27	57	10/200/1000	**ZR76021**
76022	2.2	27	57	10/200/1000	**ZR76022**
76023	2.3	30	57	10/200/1000	**ZR76023**
76024	2.4	30	61	10/200/1000	**ZR76024**
76025	2.5	30	61	10/200/1000	**ZR76025**
76026	2.6	33	61	10/200/1000	**ZR76026**
76027	2.7	33	61	10/200/1000	**ZR76027**
76028	2.8	33	65	10/200/1000	**ZR76028**
76029	2.9	33	65	10/200/1000	**ZR76029**
76030	3.0	36	65	10/200/1000	**ZR76030**
76031	3.1	36	70	10/200/1000	**ZR76031**
76032	3.2	36	70	10/200/1000	**ZR76032**
76033	3.3	39	70	10/200/1000	**ZR76033**
76034	3.4	39	70	10/200/1000	**ZR76034**
76035	3.5	39	75	10/200/1000	**ZR76035**
76036	3.6	39	75	10/250/500	**ZR76036**
76037	3.7	43	75	10/250/500	**ZR76037**
76038	3.8	43	75	10/250/500	**ZR76038**
76039	3.9	43	75	10/250/500	**ZR76039**
76040	4.0	43	80	10/250/1500	**ZR76040**
76041	4.1	43	80	10/250/500	**ZR76041**
76042	4.2	47	80	10/250/1500	**ZR76042**
76043	4.3	47	80	10/250/500	**ZR76043**
76044	4.4	47	80	10/250/1500	**ZR76044**
76045	4.5	47	80	10/250/1500	**ZR76045**
76046	4.6	47	86	10/250/500	**ZR76046**
76047	4.7	52	86	10/250/500	**ZR76047**
76048	4.8	52	86	10/250/500	**ZR76048**
76049	4.9	52	86	10/250/500	**ZR76049**
76050	5.0	52	86	10/250/1500	**ZR76050**
76051	5.1	52	93	10/250/500	**ZR76051**
76052	5.2	52	93	10/250/500	**ZR76052**
76053	5.3	57	93	10/250/500	**ZR76053**
76054	5.4	57	93	10/250/500	**ZR76054**
76055	5.5	57	93	10/250/1500	**ZR76055**
76056	5.6	57	93	10/250/500	**ZR76056**
76057	5.7	57	93	10/250/500	**ZR76057**
76058	5.8	57	93	10/250/500	**ZR76058**
76059	5.9	57	93	10/250/500	**ZR76059**
76060	6.0	63	93	10/250/1500	**ZR76060**
76061	6.1	63	101	10/100/300	**ZR76061**
76062	6.2	63	101	10/100/300	**ZR76062**
76063	6.3	63	101	10/100/300	**ZR76063**
76064	6.4	63	101	10/100/300	**ZR76064**
76065	6.5	63	101	10/100/600	**ZR76065**
76066	6.6	63	101	10/100/300	**ZR76066**
76067	6.7	63	101	10/100/300	**ZR76067**
76068	6.8	69	109	10/100/300	**ZR76068**
76069	6.9	69	109	10/100/300	**ZR76069**
76070	7.0	69	109	10/100/600	**ZR76070**
76071	7.1	69	109	10/100/400	**ZR76071**
76072	7.2	69	109	10/100/400	**ZR76072**
76073	7.3	69	109	10/100/400	**ZR76073**
76074	7.4	69	109	10/100/400	**ZR76074**
76075	7.5	69	109	10/100/400	**ZR76075**
76076	7.6	75	117	10/100/400	**ZR76076**
76077	7.7	75	117	10/100/400	**ZR76077**
76078	7.8	75	117	10/100/400	**ZR76078**
76079	7.9	75	117	10/100/400	**ZR76079**
76080	8.0	75	117	10/100/400	**ZR76080**
76081	8.1	75	117	5/50/200	**ZR76081**
76082	8.2	75	117	5/50/200	**ZR76082**
76083	8.3	75	117	5/50/200	**ZR76083**
76084	8.4	75	117	5/50/200	**ZR76084**
76085	8.5	75	117	5/50/200	**ZR76085**
76086	8.6	81	125	5/50/200	**ZR76086**
76087	8.7	81	125	5/50/200	**ZR76087**
76088	8.8	81	125	5/50/200	**ZR76088**
76089	8.9	81	125	5/50/200	**ZR76089**
76090	9.0	81	125	5/50/200	**ZR76090**
76091	9.1	81	125	5/50/200	**ZR76091**
76092	9.2	81	125	5/50/200	**ZR76092**
76093	9.3	81	125	5/50/200	**ZR76093**
76094	9.4	81	125	5/50/200	**ZR76094**
76095	9.5	81	125	5/50/200	**ZR76095**
76096	9.6	87	133	5/50/200	**ZR76096**
76097	9.7	87	133	5/50/200	**ZR76097**
76098	9.8	87	133	5/50/200	**ZR76098**
76099	9.9	87	133	5/50/200	**ZR76099**
76100	10.0	87	133	5/50/200	**ZR76100**
76102	10.2	87	133	5/50/200	**ZR76102**
76105	10.5	87	133	5/50/200	**ZR76105**
76110	11.0	94	142	5/50/200	**ZR76110**
76115	11.5	94	142	5/50/200	**ZR76115**
76120	12.0	101	151	5/50/200	**ZR76120**
76125	12.5	101	151	5/50/200	**ZR76125**
76130	13.0	101	151	5/50/200	**ZR76130**
76135	13.5	108	160	100	**ZR76135**
76140	14.0	108	160	100	**ZR76140**
76145	14.5	114	169	50	**ZR76145**
76150	15.0	114	169	50	**ZR76150**
76155	15.5	120	178	50	**ZR76155**
76160	16.0	120	178	50	**ZR76160**
76165	16.5	125	184	50	**ZR76165**
76170	17.0	125	184	50	**ZR76170**
76175	17.5	130	191	50	**ZR76175**
76180	18.0	130	191	50	**ZR76180**
76185	18.5	135	198	50	**ZR76185**
76190	19.0	135	198	50	**ZR76190**
76195	19.5	140	205	50	**ZR76195**
76200	20.0	140	205	50	**ZR76200**

2 HSS REDUCED SHANK DRILLS

• СВЕРЛА ПО МЕТАЛЛУ HSS ОБТОЧЕННЫЕ
• METALL BOHRER HSS MIT REDUZIERTEM SCHAFT



DIN 338 HSS

- High-speed steel, refined
- Compliant with DIN 338 standard
- Relief 13 mm • In a PVC case

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)	
76135P	13.5	108	160	25/100
76140P	14.0	108	160	25/100
76145P	14.5	114	169	25/50
76150P	15.0	114	169	25/50
76155P	15.5	120	178	25/50
76160P	16.0	120	178	25/50
76165P	16.5	125	184	25/50
76170P	17.0	125	184	25/50
76175P	17.5	130	191	25/50
76180P	18.0	130	191	25/50
76185P	18.5	135	198	25/50
76190P	19.0	135	198	25/50
76195P	19.5	140	205	25/50
76200P	20.0	140	205	25/50

3 HSS TWIST DRILL SETS

• НАБОРЫ СВЕРЛ ПО МЕТАЛЛУ HSS • METALL BOHRER HSS



DIN 338 HSS

- **Nose angle 118° • Ground edges**
- Material - high-speed steel, refined

Code	Range (mm)	The quantity (pcs.)	
76213	1.5-6.5 every 0.5 + 3.2, 4.8	13	25/100
76214	2-8 every 0.5	13	10/50

4 HSS TWIST DRILL SETS

• НАБОРЫ СВЕРЛ ПО МЕТАЛЛУ HSS • METALL BOHRER HSS



DIN 338 HSS

- **Nose angle 118° • Ground edges**
- Material - high-speed steel, refined

Code	Range (mm)	The quantity (pcs.)	
76219	1-10 every 0.5	19	25
76225	1-13 every 0.5	25	10

1 HSS TWIST DRILLS

• СВЕРЛА ПО МЕТАЛЛУ ИЗ СТАЛИ HSS • METALLBOHRER HSS



DIN 338 · DIN 1412C · HSS

- **Nose angle 135° with chamfering adjustment** - enables to make holes quickly, saving time when punching • **Drills made entirely by grinding** - they guarantee high precision and straightness of openings, with efficiency several times higher than for cylindrical or precision ground drills
- Material - high-grade high-speed steel, refined
- Improved abrasion resistance • Improved resilience and torsional strength • Packed and sold in a plastic tube, rectangular; dimensions 0.5 - 8.0 mm 10 pcs each.; dimensions 8.1 - 13.0 mm 5 pcs. each; dimensions 13.5 - 20.0 mm 1 pc each

Code	Ø (mm)	Working part lenght (mm)	L total (mm)	
77005	0.5	6	22	10/200/1000
77008	0.8	10	30	10/200/1000
77010	1.0	12	34	10/200/1000
77011	1.1	14	36	10/200/1000
77012	1.2	16	38	10/200/1000
77013	1.3	16	38	10/200/1000
77015	1.5	18	40	10/200/1000
77016	1.6	20	43	10/200/1000
77018	1.8	22	46	10/200/1000
77019	1.9	22	46	10/200/1000
77020	2.0	24	49	10/200/1000
77021	2.1	24	49	10/200/1000
77022	2.2	27	53	10/200/1000
77023	2.3	27	53	10/200/1000
77024	2.4	30	57	10/200/1000
77025	2.5	30	57	10/200/1000
77026	2.6	30	57	10/200/1000
77027	2.7	33	61	10/200/1000
77028	2.8	33	61	10/200/1000
77029	2.9	33	61	10/200/1000
77030	3.0	33	61	10/200/1000
77031	3.1	36	65	10/200/1000
77032	3.2	36	65	10/200/1000
77033	3.3	36	65	10/200/1000
77034	3.4	39	70	10/200/1000
77035	3.5	39	70	10/200/1000
77036	3.6	39	70	10/250/500
77037	3.7	39	70	10/250/500
77038	3.8	43	75	10/250/500
77039	3.9	43	75	10/250/500
77040	4.0	43	75	10/250/1500
77041	4.1	43	75	10/250/500
77042	4.2	43	75	10/250/1500
77043	4.3	47	80	10/250/500
77044	4.4	47	80	10/250/500
77045	4.5	47	80	10/250/1500
77046	4.6	47	80	10/250/500
77047	4.7	47	80	10/250/500
77048	4.8	52	80	10/250/500
77049	4.9	52	86	10/250/500

Code	Ø (mm)	Working part lenght (mm)	L total (mm)	
77050	5.0	52	86	10/250/1500
77051	5.1	52	86	10/250/500
77052	5.2	52	86	10/250/500
77053	5.3	52	86	10/250/500
77054	5.4	57	93	10/250/500
77055	5.5	57	93	10/250/1500
77056	5.6	57	93	10/250/500
77057	5.7	57	93	10/250/500
77058	5.8	57	93	10/250/500
77059	5.9	57	93	10/250/500
77060	6.0	57	93	10/250/1500
77061	6.1	63	101	10/100/300
77062	6.2	63	101	10/100/300
77063	6.3	63	101	10/100/300
77064	6.4	63	101	10/100/300
77065	6.5	63	101	10/100/600
77066	6.6	63	101	10/100/300
77067	6.7	63	101	10/100/300
77068	6.8	69	109	10/100/600
77069	6.9	69	109	10/100/300
77070	7.0	69	109	10/100/600
77071	7.1	69	109	10/100/400
77072	7.2	69	109	10/100/400
77073	7.3	69	109	10/100/400
77074	7.4	69	109	10/100/400
77075	7.5	69	109	10/100/400
77076	7.6	75	117	10/100/400
77077	7.7	75	117	10/100/400
77078	7.8	75	117	10/100/400
77079	7.9	75	117	10/100/400
77080	8.0	75	117	10/100/400
77081	8.1	75	117	5/50/200
77082	8.2	75	117	5/50/200
77083	8.3	75	117	5/50/200
77084	8.4	75	117	5/50/200
77085	8.5	75	117	5/50/200
77086	8.6	81	125	5/50/200
77087	8.7	81	125	5/50/200
77088	8.8	81	125	5/50/200
77089	8.9	81	125	5/50/200
77090	9.0	81	125	5/50/200
77091	9.1	81	125	5/50/200
77092	9.2	81	125	5/50/200
77093	9.3	81	125	5/50/200
77094	9.4	81	125	5/50/200
77095	9.5	81	125	5/50/200
77096	9.6	87	133	5/50/200
77097	9.7	87	133	5/50/200
77098	9.8	87	133	5/50/200
77099	9.9	87	133	5/50/200
77100	10.0	87	133	5/50/200
77102	10.2	87	133	5/50/200
77105	10.5	87	133	5/50/200
77110	11.0	94	142	5/50/200
77115	11.5	94	142	5/50/200
77120	12.0	101	151	5/50/200
77125	12.5	101	151	5/50/200
77130	13.0	101	151	5/50/200
77135	13.5	108	160	100
77140	14.0	108	160	100
77145	14.5	114	169	50
77150	15.0	114	169	50
77155	15.5	120	178	50
77160	16.0	120	178	50
77165	16.5	125	184	50
77170	17.0	125	184	50
77175	17.5	130	191	50
77180	18.0	130	191	50
77185	18.5	135	198	50
77190	19.0	135	198	50
77195	19.5	140	205	50
77200	20.0	140	205	50

2 HSS TWIST DRILL SETS

• НАБОРЫ СВЕРЛ ПО МЕТАЛЛУ HSS • METALLBOHRER HSS



DIN 338 · DIN 1412C · HSS

- **Nose angle 135° with chamfering adjustment • Drills made entirely by grinding** • Material - high-grade high-speed steel, refined, resistant to torsional stress

Code	Range (mm)	The quantity (pcs.)	
77213	1.5-6.5 every 0.5 + 3.2, 4.8	13	25/100
77214	2-8 every 0.5	13	10/50

3 HSS TWIST DRILL SETS

• НАБОРЫ СВЕРЛ ПО МЕТАЛЛУ HSS • METALLBOHRER HSS



DIN 338 · DIN 1412C · HSS

- **Nose angle 135° with chamfering adjustment • Drills made entirely by grinding** • Material - high-grade high-speed steel, refined, resistant to torsional stress

Code	Range (mm)	The quantity (pcs.)	
77219	1-10 every 0.5	19	25
77225	1-13 every 0.5	25	10

1 HSS-CO JOBBER DRILLS

• СВЕРЛА ПО МЕТАЛЛУ ИЗ СТАЛИ HSS-CO С КОБАЛЬТОМ
• METALLBOHRER HSS-CO



DIN 338 · DIN 1412C · HSS Co

- **Nose angle 135° with chamfering adjustment** - enables to make holes quickly, saving time when marking off • Cobalt-coated (5% of cobalt) • High temperature resistance • For drilling in high-alloy, titanium, acid-resistant, stainless, high-temperature alloy steels and cast iron (resistance above 900 N/m²) and other materials difficult to machine • **Drills entirely made by grinding** - guarantee high precision and straightness of openings • Packed and sold in a plastic tube, rectangular; dimensions 0.5 - 8.0 mm 10 pcs each.; dimensions 8.1 - 13.0 mm 5 pcs. each; dimensions 14 - 20.0 mm 1 pc each

Code	⌀ (mm)	Working part lenght (mm)	L total (mm)	
78005	0.5	6	22	10/200/1000
78008	0.8	10	30	10/200/1000
78010	1.0	12	34	10/200/1000
78015	1.5	18	40	10/200/1000
78020	2.0	24	49	10/200/1000
78022	2.2	27	53	10/200/1000
78025	2.5	30	57	10/200/1000
78030	3.0	33	61	10/200/1000
78031	3.1	36	65	10/200/1000
78032	3.2	36	65	10/200/1000
78035	3.5	39	70	10/200/1000
78038	3.8	43	75	10/250/500
78040	4.0	43	75	10/250/1500
78041	4.1	43	75	10/250/500
78042	4.2	43	75	10/250/1500
78045	4.5	47	80	10/250/1500
78048	4.8	52	86	10/250/500
78050	5.0	52	86	10/250/1500
78051	5.1	52	86	10/250/500
78052	5.2	52	86	10/250/500
78055	5.5	57	93	10/250/1500
78060	6.0	57	93	10/250/1500
78061	6.1	63	101	10/100/300
78062	6.2	63	101	10/100/300
78065	6.5	63	101	10/100/600
78070	7.0	69	109	10/100/600
78075	7.5	69	109	10/100/400
78080	8.0	75	117	10/100/400
78081	8.1	75	117	5/50/200
78082	8.2	75	117	5/50/200
78085	8.5	75	117	5/50/200
78090	9.0	81	125	5/50/200
78095	9.5	81	125	5/50/200
78100	10.0	87	133	5/50/200
78102	10.2	87	133	5/50/200
78105	10.5	87	133	5/50/200
78110	11.0	94	142	5/50/200
78115	11.5	94	142	5/50/200
78120	12.0	101	151	5/50/200
78125	12.5	101	151	5/50/200
78130	13.0	101	151	5/50/200
78140	14.0	108	160	100
78150	15.0	114	169	50
78160	16.0	120	178	50
78180	18.0	130	191	50
78200	20.0	140	205	50

2 HSS-TIN COATED TWIST DRILLS

• СВЕРЛА ПО МЕТАЛЛУ ИЗ СТАЛИ HSS-TIN С ТИТАНОВЫМ НАПЫЛЕНИЕМ • METALLBOHRER HSS-TIN



DIN 338 · DIN 1412C · HSS TiN

- Nose angle 135° with chamfering adjustment. • Drills made entirely by grinding, coated with titanium nitride improving their lifecycle and the quality of opening finishes • Packed - individual case: dimensions 1.0 - 3.0 mm, sold in the sets of 2 pcs

Code	⌀ (mm)	Working part lenght (mm)	L total (mm)	
77810	1.0	12	34	2/200/600
77815	1.5	18	40	2/100/300
77820	2.0	24	49	2/100/300
77825	2.5	30	57	2/100/300
77830	3.0	33	61	2/200/600
77832	3.2	36	65	100/300
77835	3.5	39	70	100/300
77840	4.0	43	75	100/300
77842	4.2	43	75	100/300
77845	4.5	47	80	100/300
77848	4.8	52	86	100/300
77850	5.0	52	86	100/300
77852	5.2	57	86	50/200
77855	5.5	57	93	50/200
77860	6.0	63	93	50/200
77865	6.5	69	101	50/200
77870	7.0	69	109	50/100
77875	7.5	75	109	50/100
77880	8.0	75	117	50/100
77885	8.5	36	117	50/100
77890	9.0	81	125	50/100
77895	9.5	81	125	50/100
77900	10.0	87	133	50/100
77905	10.5	87	133	25/50
77910	11.0	94	142	25/50
77915	11.5	94	142	25/50
77920	12.0	101	151	25/50
77925	12.5	101	151	25/50
77930	13.0	101	151	25/50



3 HSS-CO TWIST DRILL SETS

• НАБОР СВЕРЛ ПО МЕТАЛЛУ HSS • METALLBOHRER HSS-CO



DIN 338 · DIN 1412C · HSS Co

- **Nose angle 135° with chamfering adjustment** • **Drills made entirely by grinding** • Cobalt-coated (5% of cobalt)

Code	Range (mm)	The quantity (pcs.)	
78219	1-10 every 0.5	19	25
78225	1-13 every 0.5	25	10

4 HSS-TIN COATED TWIST DRILL SET

• НАБОР СВЕРЛ ПО МЕТАЛЛУ HSS • METALLBOHRER HSS-TIN



DIN 338 · DIN 1412C · HSS TiN

- **Nose angle 135° with chamfering adjustment** • Drills made entirely by grinding, coated with titanium nitride improving their lifecycle and the quality of opening finishes, enabling to apply higher machining parameters • Packed - individual case: dimensions 1.0 - 3.0 mm, sold in the sets of 2 pcs

Code	Range (mm)	The quantity (pcs.)	
77990	1-10 co 0.5	19	25

1 HSS STUBBY DRILLS

• КОРОТКИЕ СВЕРЛА ПО МЕТАЛЛУ ИЗ СТАЛИ HSS • METALLBOHRER HSS KURZ



DIN 1412C | DIN 1897 | HSS

- **Nose angle 135° with chamfering adjustment** enabling to make holes quickly, saving time when punching • **Drills entirely made by grinding** - guarantee high precision and straightness of openings • Sold in a rectangular plastic tube: 1.0 - 8.0 mm 10 pcs. each; 8.5 - 13.0 mm 5 pcs. each; 16.0 - 18.0 mm 1 pcs.

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)	
78410	1.0	6	26	10/200/600
78415	1.5	9	32	10/200/1000
78420	2.0	12	38	10/200/1000
78425	2.5	14	43	10/200/1000
78430	3.0	16	46	10/200/1000
78431	3.1	18	49	10/200/1000
78432	3.2	18	49	10/200/1000
78433	3.3	18	49	10/200/1000
78435	3.5	20	52	10/200/1000
78440	4.0	22	55	10/250/1500
78441	4.1	22	55	10/250/1500
78442	4.2	22	55	10/250/1500
78443	4.3	24	58	10/250/1500
78445	4.5	24	58	10/250/1500
78448	4.8	26	62	10/250/500
78450	5.0	26	62	10/250/500
78451	5.1	26	62	10/250/500
78452	5.2	26	62	10/250/1500
78453	5.3	26	62	10/250/1500
78455	5.5	28	66	10/250/1500
78457	5.7	28	66	10/250/1500
78458	5.8	28	66	10/250/500
78459	5.9	28	66	10/250/1500
78460	6.0	28	66	10/250/1500
78461	6.1	31	70	10/100/300
78462	6.2	31	70	10/100/300
78463	6.3	31	70	10/100/600
78465	6.5	31	70	10/100/600
78467	6.7	31	70	10/100/600
78475	7.5	34	74	10/100/400
78480	8.0	37	79	10/100/400
78485	8.5	37	79	5/50/200
78490	9.0	40	84	5/50/200
78495	9.5	40	84	5/50/200
78500	10.0	43	89	5/50/200
78502	10.2	43	89	5/50/200
78511	11.0	47	95	5/50/200
78512	12.0	51	102	5/50/200
78513	13.0	51	102	5/50/200
78516	16.0	58	115	25/125
78518	18.0	62	123	25/125

2 HSS LONG DRILLS

• ДЛИННЫЕ СВЕРЛА ПО МЕТАЛЛУ ИЗ СТАЛИ HSS • METALLBOHRER LANG HSS



DIN 1412C | DIN 340 | HSS

- Nose angle 135° with chamfering adjustment •Drills made entirely by grinding – guarantee high accuracy and straightness, especially useful when drilling through drill sleeves • Long drill bits made by grinding are used for drilling in steel, non-ferrous metals and plastics
- Material - high-grade high-speed steel, refined • Sold in a rectangular plastic tube: 0.8 - 8.0 mm po 10 pcs.; 8.2 - 12.0 mm po 5 pcs.; 14.0 - 20.0 mm po 1 pcs.

Code	Ø (mm)	Working part lenght (mm)	Total lenght (mm)	
77408	0.8	20	40	10/200/1000
77410	1.0	33	56	10/200/1000
77412	1.2	41	65	10/200/1000
77415	1.5	45	70	10/200/1000
77420	2.0	56	86	10/100/600
77421	2.1	56	86	10/100/600
77422	2.2	59	90	10/100/600
77425	2.5	62	95	10/100/600
77430	3.0	66	100	10/100/600
77431	3.1	69	106	10/100/600
77432	3.2	69	106	10/100/600
77435	3.5	73	112	10/100/600
77438	3.8	78	119	10/100/400
77440	4.0	78	119	10/100/400
77441	4.1	78	119	10/100/400
77442	4.2	78	119	10/100/400
77445	4.5	82	126	10/100/400
77448	4.8	87	132	10/100/400
77450	5.0	87	132	10/100/400
77451	5.1	87	132	10/100/400
77452	5.2	87	132	10/100/400
77455	5.5	91	139	10/100/400
77460	6.0	91	139	10/100/400
77461	6.1	97	148	10/100/400
77462	6.2	97	148	10/100/400
77465	6.5	97	148	10/100/400
77470	7.0	102	156	10/100/400
77475	7.5	102	156	10/100/400
77480	8.0	109	165	10/100
77482	8.2	109	165	5/100
77485	8.5	109	165	5/100
77490	9.0	115	175	5/100
77495	9.5	115	175	5/100
77500	10.0	121	184	5/100
77502	10.2	121	184	5/100
77505	10.5	121	184	5/100
77511	11.0	128	195	5/100
77512	12.0	134	205	5/100
77514	14.0	140	214	50
77515	15.0	144	200	100
77516	16.0	149	227	50
77517	17.0	154	235	100
77518	18.0	158	241	50
77520	20.0	166	254	50

3 HSS DOUBLE ENDED DRILLS

• ДВУХСТОРОННИЕ СВЕРЛА ПО МЕТАЛЛУ ИЗ СТАЛИ HSS • METALLBOHRER HSS, DOPPELSEITIG



HSS

- **Ground • Nose angle 135° with chamfering adjustment**
- Sold in a rectangular plastic tube, 10 pcs each

Code	Ø (mm)	Total lenght (mm)	
78630	3.0	49	10/200/600
78631	3.1	49	10/200/600
78632	3.2	49	10/200/600
78633	3.3	49	10/200/600
78635	3.5	52	10/200/1000
78640	4.0	55	10/250/1500
78641	4.1	55	10/250/500
78642	4.2	55	10/250/1500
78645	4.5	55	10/250/1500
78650	5.0	62	10/250/1500
78651	5.1	62	10/250/500
78652	5.2	62	10/250/500

1 FRAMEWORK DRILLS

• СВЕРЛА ДЛЯ ОПАЛУБКИ • FACHWERKBOHRER



SDS plus

- Length 400 and 600 mm

Code	Ø (mm)	Length (mm)		
76410	10	400	x	20/100
76412	12	400	x	20/100
76414	14	400	x	20/100
76416	16	400	x	20/100
76418	18	400	x	10/50
76420	20	400	x	10/50
76610	10	600	x	20/100
76612	12	600	x	20/100
76614	14	600	x	20/100
76616	16	600	x	20/100
76618	18	600	x	10/50
76620	20	600		10/50



PROLINE DRILL BITS FOR CONCRETE

Description	Characteristics	Head
MASONRY DRILL BITS **Straight shank**	**STRAIGHT SHANK DRILL BITS FOR MASONRY AND BRICKS** • Basic hammer drill bits for all masonry work. • Drill bit with a rolled flute with cemented carbide tip. **For use in building materials used in masonry walls**: silicate brick, brick, cement-lime blocks. **Use:** hammer drills **Drill bit diameters: from 3 mm to 16 mm**	  
SDS PLUS S2 DRILL BITS FOR CONCRETE SDS plus	**DRILL BITS FOR NON-REINFORCED CONCRETE WITH A DOUBLE FLUTE AND SDS PLUS SHANK** • Tungsten carbide tipped (TCT) edge with enlarged centering tip that allows drilling without walking • Double flute dampens vibrations and increases drill-bit strength • Quick removal of cuttings from the hole **For use in building materials:** non-reinforced concrete, natural stone, masonry, brick **Drill diameters: from 4 mm to 28 mm.**	  
SDS PLUS S4 DRILL BITS FOR CONCRETE SDS plus	**DRILL BITS FOR REINFORCED CONCRETE WITH DOUBLE FLUTE, WITH S4 EDGE AND SDS PLUS SHANK** • Enables effective drilling in reinforced concrete (does not stop in contact with reinforcement), is 3 times more effective than a standard SDS-Plus drill bit • Tip with with four S4 edges enables accurate and reliable drill bit guiding • High dimensional tolerance for obtained holes • Tungsten carbide tip (TCT) with enlarged centering tip that allows drilling without walking • Double flute dampens vibrations and increases drill-bit strength **For use in building materials:** non-reinforced concrete, natural stone, masonry, brick **Drill diameters: from 4 mm to 28 mm.**	  
SDS MAX S4 DRILL BITS FOR CONCRETE SDS max	**DRILL BITS FOR REINFORCED CONCRETE WITH DOUBLE FLUTE, WITH S4 EDGE AND SDS MAX SHANK** • Enables effective drilling in reinforced concrete (does not stop in contact with reinforcement) • S4 tip with four edges enables accurate and reliable drill bit guiding. • High dimensional tolerance for obtained holes • Tungsten carbide tipped (TCT) edge with enlarged centering tip that allows drilling without slips • Double flute dampens vibrations and increases drill-bit strength • Increased effectiveness and strength in comparison with SDS Plus concrete drill bits. **For use in building materials:** reinforced concrete, natural stone, brick, masonry, clinker brick, granite, marble and other natural stones **Drill bit diameters: from 16 mm to 40 mm**	  

СВЕРЛА ПО БЕТОНУ PROLINE

Описание	Характеристики	Головка
СВЕРЛА ПО БЕТОНУ **Прямой хвостовик**	**СВЕРЛА С ПРЯМЫМ ХВОСТОВИКОМ ПО БЕТОНУ И КИРПИЧУ** • Стандартные перфораторные буры для всех работ по бетону. • Бур с прокатанной канавкой и твердосплавным наконечником. **Используется в строительных материалах кладки**: силикатный кирпич, кирпич, цементно-известковые блоки. **Применение:** перфораторы **Диаметр сверла: от 3 до 16 мм**	  
СВЕРЛА ПО БЕТОНУ SDS PLUS S2 SDS plus	**СВЕРЛА ДЛЯ НЕАРМИРОВАННОГО БЕТОНА С ДВОЙНОЙ КАНАВКОЙ И ХВОСТОВИКОМ SDS PLUS** • Режущая пластина из карбида вольфрама (ТСТ) с увеличенным центрирующим наконечником, позволяющим сверлить без вибрации • Двойная канавка гасит вибрации и увеличивает прочность бура • Быстрое удаление отходов из отверстия **Для использования в строительных материалах:** неармированный бетон, природный камень, кладка, кирпич **Диаметр сверла: от 4 до 28 мм.**	
СВЕРЛА ПО БЕТОНУ SDS PLUS S4 SDS plus	**СВЕРЛА ДЛЯ НЕАРМИРОВАННОГО БЕТОНА С ДВОЙНОЙ КАНАВКОЙ, КРОМКОЙ S4 И ХВОСТОВИКОМ SDS PLUS** • Обеспечивает эффективное сверление в железобетоне (не останавливается при контакте с арматурой), в 3 раза эффективнее, чем стандартное сверло SDS-Plus • Наконечник с четырьмя кромками S4 точно и надежно направляет сверло • Высокий размерный допуск для полученных отверстий • Режущая пластина из карбида вольфрама (ТСТ) с увеличенным центрирующим наконечником, позволяющим сверлить без вибрации • Двойная канавка гасит вибрации и увеличивает прочность бура **Для использования в строительных материалах:** неармированный бетон, природный камень, кладка, кирпич **Диаметр сверла: от 4 до 28 мм.**	 
СВЕРЛА ПО БЕТОНУ SDS MAX S4 SDS max	**СВЕРЛА ДЛЯ НЕАРМИРОВАННОГО БЕТОНА С ДВОЙНОЙ КАНАВКОЙ, КРОМКОЙ S4 И ХВОСТОВИКОМ SDS MAX** • Обеспечивает эффективное сверление в железобетоне (не останавливается при контакте с арматурой) • Наконечник с четырьмя кромками S4 точно и надежно направляет сверло. • Высокий размерный допуск для полученных отверстий • Режущая пластина из карбида вольфрама (ТСТ) с увеличенным центрирующим наконечником, позволяющим сверлить без вибрации • Двойная канавка гасит вибрации и увеличивает прочность бура • Более высокая эффективность и прочность по сравнению со сверлами по бетону SDS Plus. **Для использования в строительных материалах:** железобетон, природный камень, кирпич, кладка, клинкерный кирпич, гранит, мрамор и другие природные камни **Диаметр сверла: от 16 до 40 мм**	  

PROLINE BOHRER FÜR BETON

Beschreibung	Eigenschaften	Kopf
BOHRER FÜR MAUERWERK **Gerader Schaft**	**BOHRER FÜR MAUERWERK UND ZIEGEL MIT GERADEM SCHAFT** • Standardbohrhammerbohrer für alle Mauerwerkarbeiten. • Bohrer mit gerollter Nut mit Hartmetallspitze. **Zur Verwendung in Mauerwerk verwendeten Baustoffen**: Silikatziegel, Ziegel, Zement-Kalkblöcke. **Verwendung:** Bohrhammerbohrer **Bohrerdurchmesser: von 3 mm bis 16 mm**	  
SDS PLUS S2 BOHRER FÜR BETON SDS plus	**BOHRER FÜR UNBEWEHRTEN BETON MIT DOPPELTER NUT UND SDS PLUS SCHAFT** • Tungsten-Carbide-Tipped (TCT) behandelte Kante mit ausgeweiteter Zentrierungsspitze, die ein stabile Bohrung sicherstellt. • Die doppelte Nut dämpft Vibrationen und steigert die Festigkeit des Bohrereinsatzes • Schnelles Entfernen der Späne aus dem Bohrloch **Zur Verwendung in folgendem Baumaterial:** unbewehrter Beton, Naturstein, Mauerwerk, Ziegel **Bohrdurchmesser: von 4 mm bis 28 mm**	  
SDS PLUS S4 BOHRER FÜR BETON SDS plus	**BOHRER FÜR BEWEHRTEN BETON MIT DOPPELTER NUT, S4 KANTE UND SDS PLUS SCHAFT** • Ermöglicht effektives Bohren in bewehrtem Beton (kein Stoppen bei Kontakt mit Bewehrung), der Bohrer ist 3 Mal so effektiv wie ein standardmäßiger SDS-Plus-Bohrer. • Die Spitze mit vier S4 Kanten ermöglicht die genaue und zuverlässige Bohrerführung. • Hohe Maßtoleranz für erhaltene Bohrlöcher. • Tungsten-Carbide-Spitze (TCT) mit ausgeweiteter Zentrierungsspitze, die ein stabile Bohrung sicherstellt. • Die doppelte Nut dämpft Vibrationen und steigert die Festigkeit des Bohrereinsatzes. **Zur Verwendung in folgendem Baumaterial:** unbewehrter Beton, Naturstein, Mauerwerk, Ziegel **Bohrdurchmesser: von 4 mm bis 28 mm**	  
SDS MAX S4 BOHRER FÜR BETON SDS max	**BOHRER FÜR BEWEHRTEN BETON MIT DOPPELTER NUT, S4 KANTE UND SDS MAX SCHAFT** • Ermöglicht effektives Bohren in bewehrtem Beton (kein Stoppen bei Kontakt mit Bewehrung). • Die S4 Spitze mit vier Kanten ermöglicht die genaue und zuverlässige Bohrerführung. • Hohe Maßtoleranz für erhaltene Bohrlöcher. • Tungsten-Carbide-Tipped (TCT) behandelte Kante mit ausgeweiteter Zentrierungsspitze, die Bohrung ohne Verrutschen sicherstellt. • Die doppelte Nut dämpft Vibrationen und steigert die Festigkeit des Bohrereinsatzes. • Höhere Effizienz und Festigkeit im Vergleich zu SDS Plus Bohrern für Beton. **Zur Verwendung in folgendem Baumaterial:** unbewehrter Beton, Naturstein, Ziegel, Mauerwerk, Klinker, Granit, Marmor und andere Natursteine **Bohrerdurchmesser: von 16 mm bis 40 mm**	  

1 MASONRY DRILLS

• СВЕРЛА ПО БЕТОНУ • BETONBOHRER



• Drills for general masonry work • Have rolled flutes and a sintered carbide edge, which allows quick drilling in soft building materials • Supplied in a plastic case

Code	∅ (mm)	Total lenght (mm)		
73103	3	60	x	50/300
73104	4	75	x	50/300
73105	5	85	x	50/300
73106	6	100	x	50/200
73108	8	120	x	50/200
73109	9	120	x	50/200
73110	10	120	x	50/200
73112	12	150	x	50/200
73206	6	200	x	50/100
73208	8	200	x	50/100
73210	10	200	x	50/100
73212	12	200	x	50/100
73214	14	200	x	25/50
73216	16	200	x	25/50
73306	6	300	x	50/100
73308	8	300	x	50/100
73310	10	300	x	50/100
73312	12	300	x	50/100
73408	8	400	x	25/50
73410	10	400	x	25/50
73412	12	400	x	25/50
73414	14	400	x	25/50
73416	16	400	x	25/50
73608	8	600	x	25/50
73610	10	600	x	25/50
73612	12	600	x	25/50
73614	14	600	x	25/50

2 MASONRY DRILL SET

• НАБОРЫ СВЕРЛ ПО БЕТОНУ • BETONBOHRER



• Packed in a plastic box, making a base when opened

Code	Dimensions (mm)	The quantity (pcs.)	
73703	6, 8, 10	3	25/100
73705	4, 5, 6, 8, 10	5	25/100
73708	3, 4, 5, 6, 7, 8, 9, 10	8	10/50



1 SDS PLUS S4 HAMMER DRILLS

• СВЕРЛА ПО БЕТОНУ SDS PLUS ТИП S4
• BETONBOHRER SDS PLUS S4



• Drills for industrial and professional applications • For drilling in concrete and granite • Double twist ensures quick bore mill release • 4-blade insert with optimised geometry

Code	Ø (mm)	Total lenght (mm)		
70411	4	110	x	25/250
70416	4	160	x	25/200
70511	5	110	x	25/250
70516	5	160	x	25/200
70611	6	110	x	25/250
70616	6	160	x	25/200
70621	6	210	x	25/100
70626	6	260	x	25/100
70811	8	110	x	25/250
70816	8	160	x	25/200
70821	8	210	x	25/100
70826	8	260	x	25/100
70830	8	300	x	25/100
70835	8	350	x	25/100
70840	8	400	x	25/100
70845	8	450	x	25/100
71011	10	110	x	25/250
71016	10	160	x	25/200
71021	10	210	x	25/100
71026	10	260	x	25/100
71030	10	300	x	25/100
71035	10	350	x	25/100
71040	10	400	x	25/100
71045	10	450	x	25/100
71060	10	600	x	20/40
71080	10	800	x	20/40
71216	12	160	x	25/200
71221	12	210	x	25/100
71226	12	260	x	25/100
71230	12	300	x	25/100
71235	12	350	x	25/100
71240	12	400	x	25/100
71245	12	450	x	25/100
71260	12	600	x	20/40
71316	13	160	x	25/200
71326	13	260	x	25/100
71416	14	160	x	25/200
71421	14	210	x	25/100
71426	14	260	x	25/100
71430	14	300	x	25/100
71440	14	400	x	25/100
71445	14	450	x	20/40
71460	14	600	x	20/40
71616	16	160	x	20/80
71621	16	210	x	20/80
71626	16	260	x	20/80
71630	16	300	x	20/80
71635	16	350	x	20/40
71640	16	400	x	20/40
71645	16	450	x	20/40
71660	16	600	x	20/40
71680	16	800	x	20/40
71821	18	210	x	10/20
71826	18	260	x	10/20
71835	18	350	x	10/20
71840	18	400	x	10/20
71845	18	450	x	10/20
71860	18	600	x	10/20
72021	20	210	x	10/20
72026	20	260	x	10/20
72030	20	300	x	10/20
72040	20	400	x	10/20
72045	20	450	x	10/20
72060	20	600	x	10/20
72080	20	800	x	10/20
72221	22	210	x	10/20
72226	22	260	x	10/20
72230	22	300	x	10/20
72240	22	400	x	10/20
72245	22	450	x	10/20
72260	22	600	x	10/20
72280	22	800	x	10/20
72426	24	260	x	10/20
72440	24	400	x	10/20
72460	24	600	x	10/20
72480	24	800	x	10/20
72530	25	300	x	10/20
72545	25	450	x	10/20
72560	25	600	x	10/20
72626	26	260	x	10/20
72640	26	400	x	10/20
72660	26	600	x	10/20
72840	28	400	x	5/10
72860	28	600	x	5/10
72880	28	800	x	5/10

2 SDS PLUS HAMMER DRILLS

• СВЕРЛА ПО БЕТОНУ SDS PLUS
• BETONBOHRER SDS PLUS



• Drills for industrial and professional applications • Specially-shaped solid carbide insert ensures improved durability, very high performance, accurate centered drilling and reduced load • For drilling in concrete, granite and other natural stones • Double twist ensures quick bore mill release

Code	Ø (mm)	Total lenght (mm)		
90411	4	110	x	25/250
90416	4	160	x	25/200
90511	5	110	x	25/250
90516	5	160	x	25/200
90611	6	110	x	25/250
90616	6	160	x	25/200
90621	6	210	x	25/100
90626	6	260	x	25/100
90811	8	110	x	25/250
90816	8	160	x	25/200
90821	8	210	x	25/100
90826	8	260	x	25/100
90830	8	300	x	25/100
90835	8	350	x	25/100
90840	8	400	x	25/100
90845	8	450	x	25/100
91011	10	110	x	25/250
91016	10	160	x	25/200
91021	10	210	x	25/100
91026	10	260	x	25/100
91030	10	300	x	25/100
91035	10	350	x	25/100
91040	10	400	x	25/100
91045	10	450	x	25/100
91060	10	600	x	20/40
91080	10	800	x	20/40
91216	12	160	x	25/200
91221	12	210	x	25/100
91226	12	260	x	25/100
91230	12	300	x	25/100
91235	12	350	x	25/100
91240	12	400	x	25/100
91245	12	450	x	25/100
91260	12	600	x	20/40
91316	13	160	x	25/200
91326	13	260	x	25/100
91416	14	160	x	25/200
91421	14	210	x	25/100
91426	14	260	x	25/100
91430	14	300	x	25/100
91440	14	400	x	25/100
91445	14	450	x	20/40
91460	14	600	x	20/40
91616	16	160	x	20/80
91621	16	210	x	20/80
91626	16	260	x	20/80
91630	16	300	x	20/80
91635	16	350	x	20/40
91640	16	400	x	20/40
91645	16	450	x	20/40
91660	16	600	x	20/40
91680	16	800	x	20/40
91821	18	210	x	10/20
91826	18	260	x	10/20
91835	18	350	x	10/20
91840	18	400	x	10/20
91845	18	450	x	10/20
91860	18	600	x	10/20
92021	20	210	x	10/20
92026	20	260	x	10/20
92030	20	300	x	10/20
92040	20	400	x	10/20
92045	20	450	x	10/20
92060	20	600	x	10/20
92080	20	800	x	10/20
92221	22	210	x	10/20
92226	22	260	x	10/20
92230	22	300	x	10/20
92240	22	400	x	10/20
92245	22	450	x	10/20
92260	22	600	x	10/20
92280	22	800	x	10/20
92426	24	260	x	10/20
92440	24	400	x	10/20
92460	24	600	x	10/20
92480	24	800	x	10/20
92530	25	300	x	10/20
92545	25	450	x	10/20
92560	25	600	x	10/20
92626	26	260	x	10/20
92640	26	400	x	10/20
92660	26	600	x	10/20
92840	28	400	x	5/10
92860	28	600	x	5/10
92880	28	800	x	5/10

3 SDS PLUS HAMMER DRILL SETS

• НАБОРЫ СВЕРЛ ПО БЕТОНУ SDS PLUS • BETONBOHRER SDS PLUS



• Drills for industrial and professional applications • Specially-shaped solid carbide insert ensures improved durability, very high performance, accurate centered drilling and reduced load • For drilling in masonry walls, concrete, granite and other natural stones

Code	Dimensions (mm)	The quantity (pcs.)	
90003	6, 8, 10 x 110	3	25/50
90005	5, 6, 8, 10, 12 x 160	5	20/40
90006	6, 8, 10 x 110, 160	6	20/40

1 SDS MAX S4 CROSS HEAD DRILLS FOR CONCRETE

• СВЕРЛА ПО БЕТОНУ SDS MAX ТИП S4
• BETONBOHRER SDS MAX S4



SDS max

• Drills for industrial and professional applications • For drilling in concrete and granite • Double twist ensures quick dust release • 4-blade insert with optimised geometry

Code	Ø (mm)	Total lenght (mm)		
71634	16	340	x	5/50
71654	16	540	x	10/40
71692	16	920	x	5/20
71834	18	340	x	5/50
71854	18	540	x	10/40
71892	18	920	x	5/20
72232	22	320	x	10/50
72252	22	520	x	10/30
72272	22	720	x	10/30
72292	22	920	x	5/15
72432	24	320	x	10/50
72452	24	520	x	10/20
72532	25	320	x	10/30
72552	25	520	x	10/20
72572	25	720	x	10/20
72592	25	920	x	5/10
72652	26	520	x	10/20
72837	28	370	x	5/25
72857	28	570	x	3/15
72867	28	670	x	5/10
72892	28	920	x	3/12
73037	30	370	x	5/20
73057	30	570	x	3/15
73072	30	720	x	5/10
73092	30	920	x	2/10
73237	32	370	x	5/25
73257	32	570	x	2/10
73272	32	720	x	5/10
73292	32	920	x	2/10
73537	35	370	x	5/20
73557	35	570	x	2/10
73567	35	670	x	5/10
73572	35	720	x	5/10
73592	35	920	x	2/6
74037	40	370	x	5/25
74057	40	570	x	3/15
74072	40	720	x	5/10
74092	40	920	x	2/6



2 SDS MAX GOUGE CHISEL

• ДОЛОТО (ШТРОБНИК) SDS MAX
• BETONMEISSEL SDS MAX



Cr HRC 50±2 SDS max

• Chisel 25 mm

Code	Dimensions (mm)	Width (mm)		
81720	18 x 300	25	x	10/50

3 SDS MAX CHISELS

• ПИКИ И ЗУБИЛА SDS MAX
• BETONMEISSEL SDS MAX



Cr HRC 50±2 SDS max

Code	Size (mm)	Width (mm)		
• pointed				
81710	18 x 280	-	x	10/50
81711	18 x 400	-	x	10/20
81712	18 x 600	-	x	5/20
• flat				
81713	18 x 280	25	x	10/50
81714	18 x 400	25	x	10/20
81715	18 x 600	25	x	5/20
• wide				
81716	18 x 280	50	x	5/35
81717	18 x 400	50	x	5/25
81718	18 x 600	50	x	5/20
81719	18 x 300	75	x	5/25

4 SDS MAX BUTTERFLY CHISEL

• КРЫЛЬЧАТОЕ ДОЛОТО SDS MAX • SDS MAX SCHMETTERLINGS-MEISSEL



Cr HRC 50±2 SDS max

• Designed for brick, cellular concrete
• Wings ensure stable chisel guiding

Code	Size (mm)	Width (mm)		
81722	18 x 380	23	x	5/25

5 SDS PLUS POINT CHISEL

• ПРОБОЙНИК ПО БЕТОНУ SDS PLUS
• BEBETONLOCHEISEN SDS PLUS



SDS plus

Code	Size (mm)	
81730	17 x 250	25/50

6 SDS PLUS FLAT CHISELS

• ПИКИ И ЗУБИЛА SDS PLUS • BEBETONMEISSEL SDS PLUS



SDS plus

Code	Size (mm)	Width (mm)		
• flat				
81733	17 x 250	20	x	25/50
• wide				
81731	17 x 250	40	x	25/50

7 SDS PLUS GROOVE CHISEL

• ШТРОБОРЕЗ РУЧНОЙ ДЛЯ БЕТОНА (БОРОЗДОДЕЛ) SDS PLUS
• BEBETONKANALMEISSEL SDS PLUS



SDS plus

Code	Size (mm)	Width (mm)		
81732	17 x 250	23	x	25/50

8 SDS PLUS CHUCK ADAPTOR

• ПЕРЕХОДНИК - АДАПТЕР SDS PLUS
• ADADAPTER SDS PLUS



SDS plus

• Thread 1/2" • SDS plus chuck with a counter bolt

Code		
81724	x	25/200

PROLINE DRILL BITS FOR WOOD

Description	Characteristics	Shank	Head
DRILL BITS FOR WOOD WITH SPIRAL FLUTE, STRAIGHT SHANK	A special shape of the chip evacuating flute, which begins with a special spike, facilitating comfortable drilling in the desired direction. **For holes with diameters from 3 to 12 mm and a depth of approx. 100 to 150 mm**	STRAIGHT	 
WOOD SPADE BITS, HEX SHANK	The cutting part is flattened and has two straight, sharpened cutting edges. **Spade diameters range from 6 to 45 mm**, while a hex shank allows secure fixing in the drill chuck	HEX	 
SPECIAL WOOD DRILL BITS (AUGERS), HEX SHANK	These drill bits have a single-spiral flute with one land. A single flute in a drill bit with such a shape is large and allows easy removal of chips from the drilled hole. The working part is finished with spurs, a cutter and guide bit with a conical thread. The drill bit is made of high-grade alloyed tool steel, with a ground margin edge. **Augers are used to make deep holes in wood in a wide range of diameters, between 6-40 mm and to a depth of 200-400 mm.**	HEX	 



СВЕРЛА ПО ДЕРЕВУ PROLINE

Описание	Характеристики	Хвостовик	Головка	
СВЕРЛА ПО ДЕРЕВУ СО СПИРАЛЬНОЙ КАНАВКОЙ И ПРЯМЫМ ХВОСТОВИКОМ	Специальная форма канавки для удаления стружки, которая начинается со специального выступа для комфортного сверления в нужном направлении. **Для отверстий диаметром от 3 до 12 мм и глубиной от 100 до 150 мм**	ПРЯМОЙ		
СВЕРЛА ЛОПАТОЧНЫЕ ПО ДЕРЕВУ С ШЕСТИГРАННЫМ ДЕРЖАТЕЛЕМ (GRIP)	Режущая часть сплющена и имеет две прямые заточенные режущие кромки. **Диаметр лезвия в диапазоне от 6 до 45 мм**, а шестигранный хвостовик гарантирует надежное крепление в сверлильном патроне	ШЕСТИГРАННЫЙ		
СПЕЦИАЛЬНЫЕ СВЕРЛА ПО ДЕРЕВУ (СПИРАЛЬНЫЕ СВЕРЛА) С ШЕСТИГРАННЫМ ХВОСТОВИКОМ	Эти сверла имеют односпиральную канавку с одной ленточкой. Одна канавка в сверле такой формы имеет большой размер и позволяет легко удалять стружку из просверленного отверстия. Рабочая часть оснащена выступами, резцом и направляющим наконечником с конической резьбой. Сверло изготовлено из высоколегированной инструментальной стали со шлифованной кромкой. **Спиральные сверла используются для проделывания глубоких отверстий в дереве диаметром от 6-40 мм и на глубину до 200-400 мм.**	ШЕСТИГРАННЫЙ		



PROLINE BOHRER FÜR HOLZ

Beschreibung	Eigenschaften	Schaft	Kopf
BOHRER FÜR HOLZ MIT SPIRALSENKER, GERADER SCHAFT	Die spezielle Form der Nut zur Abbeförderung von Spänen, die mit einem speziellen Spitze beginnt, erleichtert das komfortable Bohren in die gewünschte Richtung. **Für Bohrlöcher mit einem Durchmesser von 3 bis 12 mm und einer Tiefe von ca. 100 bis 150 mm.**	GERADE	
FLACHFRÄSBOHRER FÜR HOLZ, SECHSKANTSCHAFT	Das Schneidteil ist abgeflacht und hat zwei gerade, geschärfte Schneidkanten. **Durchmesser der Flachfräser von 6 bis 45 mm**, während der Sechskantschaft eine sichere Befestigung des Bohrfutters ermöglicht.	HEX	
SPEZIALBOHRER FÜR HOLZ (SCHLANGENBOHRER), SECHSKANTSCHAFT	Diese Bohrfutter haben eine einspiralige Nut mit einem Schneidteil. Eine einzelne Nut in einem Bohrfutter mit dieser Form ist groß und ermöglicht die einfache Abbeförderung von Spänen durch das Bohrloch. Das Arbeitsteil ist mit Sporen, einem Fräser und einem Führungsbohrer mit konischem Gewinde versehen. Der Bohrer besteht aus hochwertigem legiertem Werkzeugstahl mit geschliffener Randkante. **Schlangenbohrer werden verwendet, um tiefe Bohrungen in Holz mit einem Durchmesser von 6-40 mm und einer Tiefe von 200-400 mm anzufertigen.**	HEX	 



1 WOOD DRILLS

• СВЕРЛА ПО ДЕРЕВУ • HOLZBOHRER



- High-quality tool alloy steel
- Delivered in plastic case

Code	Ø (mm)		
26273	3.0	x	50/300
26274	4.0	x	50/300
26275	5.0	x	50/300
26276	6.0	x	50/200
26277	7.0	x	50/200
26278	8.0	x	50/200
26279	9.0	x	50/200
26280	10.0	x	50/200
26282	12.0	x	50/200

2 WOOD DRILL SETS

• НАБОРЫ СВЕРЛ ПО ДЕРЕВУ • HOLZBOHRER



- High-quality tool alloy steel
- In a plastic box, being a base when open

Code	Dimensions (mm)	The quantity (pcs.)	
26295	4, 5, 6, 8, 10	5	25/100
26298	3, 4, 5, 6, 7, 8, 9, 10	8	10/50

3 BORING BIT 35MM

• СВЕРЛО ЦИЛИНДРИЧЕСКОЕ 35 ММ ПО ДЕРЕВУ
• KUNSTBOHRER 35 MM FÜR HOLZ



Ø 35mm | 2 EDGES | HRC 20±2

- Made from high-grade steel • For drilling holes for furniture hinges • Rolled shank 8 mm • Two cutting edges improving drilling performance

Code	Ø (mm)	Total lenght (mm)		
31398	35	8 walcowy	x	120

4 AUGERS FOR WOOD

• СПИРАЛЬНЫЕ СВЕРЛА ПО ДЕРЕВУ • SCHLANGENBOHRER



- Threaded guiding blade • For drilling in soft and hard wood as well as in laminated components • Hexagonal handle • Delivered in plastic case

Code	Ø (mm)	Total lenght (mm)		
26806	6	230	x	50/200
26808	8	230	x	50/200
26810	10	230	x	50/200
26812	12	230	x	50/200
26814	14	230	x	25/100
26816	16	230	x	25/100
26818	18	230	x	25/100
26820	20	230	x	25/100
26822	22	230	x	25/50
26824	24	230	x	25/50
26825	25	230	x	20/40
26826	26	230	x	20/40
26828	28	230	x	20/40
26830	30	230	x	20/40
26835	35	230	x	10/20
26840	40	230	x	10/20
26910	10	460	x	50/100
26912	12	460	x	50/100
26914	14	460	x	25/50
26916	16	460	x	25/50
26918	18	460	x	25/50
26920	20	460	x	25/50
26922	22	460	x	10/20
26924	24	460	x	10/20
26925	25	460	x	10/20
26926	26	460	x	10/20
26928	28	460	x	10/20
26930	30	460	x	10/20
26935	35	460	x	5/10
26940	40	460	x	5/10

5 DRILLS FOR GLASS

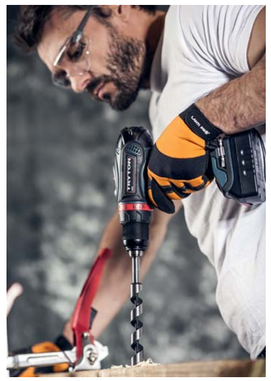
• СВЕРЛА ПО СТЕКЛУ И КЕРАМИКЕ • GLASBOHRER



6 WET DRILLING | YG-6X

- Blade made from tungsten carbide YG-6X
- Application: wet drilling in glass and soft ceramic products • Roller shank

Code	Ø (mm)	Total lenght (mm)		
81903	3	65	x	100/400
81904	4	65	x	100/400
81905	5	68	x	100/400
81906	6	72	x	100/400
81908	8	80	x	100/400
81910	10	90	x	50/200



6 SPADE DRILLS

• ПЛОСКИЕ СВЕРЛА ПО ДЕРЕВУ • FLACHFRÄSBOHRER



- Tip and blade ground to ensure precision centering • Perfect drills for making openings in wood, wood products and MDF boards
- Hexagonal handle • Delivered in plastic case

Code	Ø (mm)	Total lenght (mm)		
26605	6	150	x	100/400
26608	8	150	x	100/400
26610	10	150	x	100/400
26612	12	150	x	100/400
26613	13	150	x	100/400
26614	14	150	x	100/400
26616	16	150	x	100/400
26618	18	150	x	100/400
26620	20	150	x	100/400
26622	22	150	x	50/200
26624	24	150	x	50/200
26625	25	150	x	50/200
26626	26	150	x	50/200
26628	28	150	x	50/200
26630	30	150	x	50/200
26632	32	150	x	50/200
26634	34	150	x	50/200
26635	35	150	x	50/200
26636	36	150	x	50/200
26638	38	150	x	50/200
26640	40	150	x	50/200
26645	45	150	x	50/200

7 EXTENSION BARS FOR FLAT WOOD DRILLS

• УДЛИНИТЕЛИ ДЛЯ ПЛОСКИХ СВЕРЛ ПО ДЕРЕВУ
• VERLÄNGERUNGEN FÜR FLACHFRÄSBOHRER

- High-quality tool alloy steel
- In a plastic box, being a base when open

Code	Dimensions (mm)		
26691	150	x	50/100
26693	300	x	50

1 BI-METAL HOLE SAWS

• СВЕРЛА КОРОНЧАТЫЕ БИМЕТАЛЛИЧЕСКИЕ
• LOCHSÄGEN BIMETALL, HSS



Ø 14.0-140.0 mm | BI-METAL | HSS

- Bi-metal hole saws are made from high-speed tool steel HSS • With a chuck to install adapter for hexagonal or SDS-plus socket
- Designed for machining metals, especially aluminium and steel, as well as stainless steel, nonferrous metals, plastic and wood • Need adapter and centering drill • Steel drilling should be made when wet • Alternate number of teeth 4/6TPI • Drilling depth 38 mm

Code	Ø (mm)		
27114	14	x	25/200
27116	16	x	25/200
27119	19	x	25/200
27120	20	x	25/200
27122	22	x	25/200
27124	24	x	25/200
27125	25	x	25/200
27127	27	x	25/200
27129	29	x	25/200
27130	30	x	25/200
27132	32	x	25/100
27135	35	x	25/100
27138	38	x	25/100
27140	40	x	25/100
27144	44	x	25/100
27146	46	x	25/100
27148	48	x	25/100
27151	51	x	25/100
27154	54	x	25/100
27157	57	x	25/100
27160	60	x	10/50
27164	64	x	10/50
27167	67	x	10/50
27168	68	x	10/50
27170	70	x	10/50
27173	73	x	10/50
27183	83	x	10/50
27192	92	x	10/50
27195	95	x	2/50
28102	102	x	2/20
28105	105	x	2/20
28121	121	x	2/20
28127	127	x	2/20
28140	140	x	2/10

2 DRILL WITH COUNTERSINK 7 MM

• КОМБИНИРОВАННОЕ СВЕРЛО СО СНЯТИЕМ ФАСКИ 7 ММ
• BOHRSENKER 7 MM



PLASTIC | WOOD | Ø 7mm | Ø3.5mm

- Made from high-quality materials, hardness 40HRC • Three cutting edges improving drilling performance • Guide drill 3.1 mm
- Countersink diameter 7 mm

Code	Ø (mm)		
31381	7	x	48/192

3 HEX ADAPTORS FOR BI-METAL HOLE SAWS

• ПЕРЕХОДНИКИ ШЕСТИГРАННЫЕ ДЛЯ СВЕРЛ КОРОНЧАТНЫХ БИМЕТАЛЛИЧЕСКИХ • WALZENADAPTER FÜR BIMETALL-LOCHSÄGE



Code	Grip (mm)	Size (mm)		
27100	6	14 - 30	x	20/200
27101	11	32 - 140	x	10/100

4 HOLE SAW SET

• КОРОНКА С ВОЛЬФРАМОВОЙ НАСЫПЬЮ
• LOCHSÄGE MIT WOLFRAMAUFSCHÜTTUNG



x4 | 33/53/73/83 mm | MAX 50mm | WOLFRAM | TCT HRC 90±2 | max 1500 RPM

- Made from high quality materials • Perfect for installation works • For drilling in tiles, bricks, walls, lightweight construction materials and gypsumboard • The set includes: guide drill 8 mm, backing plate and 4 hole-saws

Code	Hole saw diameter (mm)		
31396	33/53/73/83	x	5/20

5 HOLE SAW MANDREL FOR HOLE SAW 31396

• НАПРАВЛЯЮЩЕЕ СВЕРЛО ДЛЯ КОРОНКИ 31396
• ZENTRIERBOHRER FÜR LOCHSÄGEN 31396



TCT | L 136mm | 31396 | TCT HRC 90±2

- Made from high quality materials, with TCT cutting blade • Designed for hole-saw 31396

Code	Length (mm)		
31397	136	x	1/120

6 HOLE SAW

• ПИЛА ДЛЯ ОТВЕРСТИЙ • LOCHSCHNEIDER



- For gypsumboard, plywood, wood and plastic panels • With diameter adjustment to 64 mm

Code	Range (mm)		
26400	do 64	x	6/60



7 DEPTH STOPS 6/8/10

• ОГРАНИЧИТЕЛИ ГЛУБИНЫ СВЕРЛЕНИЯ 6/8/10
• TIEFENBEGRENZER



STOP

x3 | Ø 10mm | Ø 8mm | Ø 6mm | HRC 50±2

- Made from high-quality materials, hardness 50 ± 2 HRC • Three most popular dimensions 6/8/10 mm • The set includes Allen wrench • Enable to drill in a material to the preset depth

Code	Length (mm)		
31393	6/8/10	x	24/192

8 MINIGRINDER ACCESORY KIT

• НАБОР ПРИНАДЛЕЖНОСТЕЙ ДЛЯ МИНИШЛИФМАШИНЫ
• ZUBEHÖRSATZ FÜR MINISCHLEIFER



- Set of 71 pcs for minigrinders • Diamond-coated cutter, 5 pcs • Mandrel with a grinding stone, 4 pcs • Wire brushes, 2 pcs
- Adapters for sandpaper; polishing felt, grinding discs, 4 pcs • Polishing felts, 14 pcs • Grinding discs, 35 pcs • Mandrel adapters, 2 pcs • Sandpaper rolls, 4 pcs
- Abrasive compound, 1 pcs

Code	The quantity (pcs.)	
93171	71	10

1 DIAMOND HOLE SAW

• КОРОНКИ АЛМАЗНЫЕ • DIAMANT-LOCHSÄGE





- Hole saw with vacuum soldered process diamonds • Equipped with a handle with an M14 thread for direct mounting on an angle grinder • Designed for drilling in ceramic tiles, stone tiles and stoneware, among others • An adapter with a centering drill for combi drills (27200) can be used in hole saws of min. 20mm • Drilling is to be done dry

Code	Dimension (mm)	
27206	6	20/120
27208	8	20/120
27210	10	20/120
27212	12	20/120
27215	15	20/120
27220	20	20/120
27222	22	20/120
27225	25	20/120
27230	30	20/120
27235	35	20/120
27240	40	16/96
27251	51	6/36
27260	60	6/36
27268	68	3/18

2 HEXAGONAL ADAPTOR FOR DIAMOND HOLE SAWS

• ШЕСТИГРАННЫЙ АДАПТЕР ДЛЯ АЛМАЗНЫХ КОРОНОК
• SECHSKANTADAPTER FÜR DIAMANT-LOCHSÄGEN



- Hexagonal handle • M14 thread • Includes the guide drill for hole saws 27220-27268

Code	Grip (mm)	
27200	11	10/100

3 DIAMOND CORE DRILLS

• АЛМАЗНЫЕ КОРОНЧАТЫЕ СВЕРЛА (ПОДРОЗЕТНИКИ)
• DIAMANT-LOCHBOHRER

89569
89583



89568
89582



- Supplied with a hexagonal adapter, guide drill and drill drift • Drill Ø10 mm • Thread M16
- For construction materials

Code	L (mm)	Diameter (mm)	Qty of teeth	
89568	75	68	4	20
89582	75	82	4	20
89569	150	68	3	20
89583	150	82	4	20

4 PILOT DRILL BITS FOR DIAMOND HOLE CUTTERS

• НАПРАВЛЯЮЩИЕ СВЕРЛА ДЛЯ АЛМАЗНЫХ КОРОНОК
• PILOTBOHRER FÜR DIAMANTLOCHFRÄSER



- **89507**: Guide drill bit Ø 7 for diamond hole saws Proline 89568, 89582
- **89510**: Guide drill bit Ø 10 for diamond hole saws Proline 89569, 89583

Code	
89507	100
89510	100

5 SDS PLUS ADAPTOR

• ПЕРЕХОДНИК - АДАПТЕР SDS PLUS • SDS-PLUS-ADAPTER





- Thread M16 • Drill opening dia. 10 mm
- For diamond drills with codes: 89568, 89569, 89582, 89583

Code	Dimensions (mm)	
89590	100	50/100

6 MULTI TOOL ACCESSORIES

• ПРИНАДЛЕЖНОСТИ ДЛЯ МНОГОФУНКЦИОНАЛЬНЫХ ИНСТРУМЕНТОВ С ПАТРОНОМ НА КЛЮЧ (TM300)
• ZUBEHÖR FÜR MULTIFUNKTIONSGERÄTE MIT GRIFF FÜR SCHLÜSSEL (TM300)



- Components: delta foot 1 pc., straight jaw 1 pc., stripping tool 1pc., rounded saw 1 pc., semicircular

Code		
93126	x	40

7 MULTI TOOL ABRASIVE PAD PAPER SHEET SET

• НАБОР НАЖДАЧНОЙ БУМАГИ DELTA ДЛЯ МНОГОФУНКЦИОНАЛЬНЫХ ИНСТРУМЕНТОВ (TM300)
• SCHLEIFPAPIERSATZ DELTA FÜR MULTIFUNKTIONSGERÄTE (TM300)



- Sandpaper delta 10pcs. (granulation 2 x 80, 2 x 120, 3 x 180, 3 x 240)

Code		
93110	x	100





1 ROUTER BIT SET

• НАБОР ФРЕЗ - 6 ШТ • FRÄSENSATZ



Ø 8mm | HRC 87±2

- The set includes: plunge cutter 6.3 mm, slot cutter 6 mm, end mill cutter for edge rounding 6.3 mm, cutter for smoothing 12.7 mm, slot cutter 12 mm, cutter for dovetail keys 12.7 mm

Code	Quantity (pcs.)	
93121	6	50

2 ROUTER BIT SET

• НАБОР ФРЕЗ - 12 ШТ • FRÄSENSATZ



Ø 8mm | HRC 87±2

- The set includes: plunge cutter 6.3 mm, slot cutter 6 mm, end mill cutter for edge rounding 6.3 mm, cutter for smoothing 12.7 mm, slot cutter 12 mm, cutter for dovetail keys 12.7 mm, ball cutter 6.3 mm, end mill for chamfering 32 mm, slot cutter 16 mm, end mill cutter for edge rounding 9.5 mm, slot cutter v 12.7 mm, end mill 4 mm

Code	Quantity (pcs.)	
93122	12	20

3 RECIPROCATING SAW BLADES FOR WOOD SET

• НАБОР ПИЛОЧЕК ДЛЯ ДЕРЕВА ДЛЯ САБЕЛЬНОЙ ПИЛЫ
• SÄGEBLATTSATZ FÜR HOLZ



6 TPI | 152 mm | HCS | HRC 51±2

Code	Quantity (pcs.)		
93123	3	x	40/160

4 RECIPROCATING SAW BLADES FOR METAL SET

• НАБОР ПИЛОЧЕК ДЛЯ МЕТАЛЛА ДЛЯ САБЕЛЬНОЙ ПИЛЫ
• SÄGEBLATTSATZ FÜR METALL



18 TPI | 152 mm | BiM | HRC 61±2

Code	Quantity (pcs.)		
93124	3	x	40/160

5 RECIPROCATING SAW BLADES FOR WOOD AND METAL SET

• НАБОР ПИЛОЧЕК ДЛЯ ДЕРЕВА И МЕТАЛЛА ДЛЯ САБЕЛЬНОЙ ПИЛЫ • SÄGEBLATTSATZ FÜR HOLZ UND METALL



for wood: 6/8/10 TPI | 152 mm | HCS | HRC 51±2

for metal: 14/18 TPI | 152 mm | BiM | HRC 61±2

Code	Quantity (pcs.)		
93125	5	x	40/160

SELECTION OF JIGSAW BLADES FROM PROLINE

1. Choice of blade depending on the type of blade clamp in the jigsaw

Grip	Grip Name	Used in jigsaws from:
	Type T (T-shaped) (Type BOSCH)	AEG, ATLAS KOPRO, BOSCH, DeWALT, ELU, FESTO, FLEX, HITACHI, KANGO, KRESS, LENOX, HOLZHER, MAFELL, MAKITA, METABO, MILWAUKEE, PERLES, SPARKY, TRYTON, VULCAN CONCEPT
	Type U (universal) (Type Black & Decker)	BLACK & DECKER, KRESS, RYOBI, SKIL, STAYER, WOLF

2. Choice of jigsaw blade depending on the material it is made of.

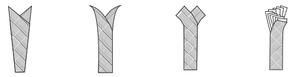
To choose the correct blade for your needs, first specify the type of material to be cut (wood, metal, plastic), the thickness of the workpiece (blades have different work ranges), the accuracy with which the workpiece is to be cut (roughly and quickly or slowly and accurately) and finally the shape of the cut (straight, curved, mixed)

Marking	Description
HCS	Carbon tool steel, the cheapest saw blades with the shortest lifespan, mainly intended for cutting soft materials such as wood, fibre board, plastic laminated boards and plastics. Smooth blades made of this material can be used for cutting in materials such as polystyrene.
CV	High quality alloy steel, chrome-vanadium. Blades with a good price-performance ratio, intended for cutting wood, furniture boards and plastics.
HSS	High-speed high-alloy tool steel, perfect blades for cutting wood-based materials, wood with nails, but mainly for steel, thin steel sheets and non-ferrous metal cutting.
Bi-metal	A combination of elastic carbon or chrome vanadium steel with HSS high-speed steel, the most expensive version of premium quality blades with several times longer working time, which allows cutting both wood, plastics and metals.
HM, TC	A niche group of saw blades are blades with a tungsten carbide coating or with carbide inserts on HM teeth. These are blades designed for cutting very hard materials such as stainless steel, ceramic tiles, etc.

3. Selection of blade depending on the material type and thickness:



4. Selection of a saw blade depending on the type of teeth



5. Selection of the saw blade depending on cutting accuracy

(i.e. the TPI, pitch of the teeth - the quantity of teeth per inch of the saw blade (1 inch = 25.4 mm))

Processed Material	Tooth pitch	Cutting accuracy
METAL	14 - 24 TPI	The higher the pitch value (finer teeth) the greater the cutting accuracy, but the lower the cutting speed
METAL WOOD AND PLASTICS	2 - 12 TPI	

6. Selection of saw blade depending on the type of cut:

	Type of cut	Recommended blade width	
	cutting straight or with a minimum arc	approx. 7-8 mm	
	cutting along a sharp arc	ok. 4 mm	
	cutting soft wood, rough cutting	approx. 7-8 mm 6-8TPI	
	cutting wood or finishing boards	ok. 7-8 mm 10-12TPI	
	safe cutting of laminated boards	ok. 7-8 mm 10-12TPI	



ВЫБОР ПИЛЬНЫХ ДИСКОВ PROLINE

1. Выбор пильного диска в зависимости от типа зажима в пиле

Держатель	Название	Используется в лобзиках производства
	Type T (т-образный) (Type BOSCH)	AEG, ATLAS KOPRO, BOSCH, DeWALT, ELU, FESTO, FLEX, HITACHI, KANGO, KRESS, LENOX, HOLZHER, MAFELL, MAKITA, METABO, MILWAUKEE, PERLES, SPARKY, TRYTON, VULCAN CONCEPT
	Type U (универсальный) (Type Black & Decker)	BLACK & DECKER, KRESS, RYOBI, SKIL, STAYER, WOLF

2. Выбор пильного диска в зависимости от материала, из которого он изготовлен.
Чтобы выбрать лезвие, соответствующее вашим потребностям, сначала укажите тип обрабатываемого материала (древесина, металл, пластик), толщину заготовки (пильные диски имеют разные диапазоны обработки), точность, с которой должна быть разрезана заготовка (приблизительно и быстро или медленно и точно), а также форму распила (прямой, изогнутый, комбинированный)

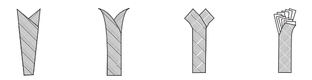
Маркировка	Описание
HCS	Углеродистая инструментальная сталь, наиболее дешевые пильные диски с наименьшим сроком службы, предназначенные в основном для резки мягких материалов, таких как древесина, ДВП, пластиковые ламинированные плиты и пластмассы. Гладкие пильные диски из этого материала можно использовать для резки таких материалов, как полистирол.
CV	Высококачественная легированная сталь, хром-ванадий. Пильные диски с хорошим соотношением цены и качества, предназначеные для резки древесины, мебельных плит и пластмасс.
HSS	Быстрорежущая высоколегированная инструментальная сталь, идеальные пильные диски для резки древесных материалов, дерева с гвоздями, но в основном для резки стали, тонких стальных листов и цветных металлов.
Биметаллические диски	Сочетание эластичной углеродистой или хромованадиевой стали с быстрорежущей сталью HSS - наиболее дорогой вариант пильных дисков премиум-класса с увеличенным в несколько раз временем работы, позволяющий резать как древесину, так и пластмассу или металл.
HM, TC	Отдельная группа пильных дисков - это диски с покрытием из карбида вольфрама или твердосплавными вставками на зубьях HM. Это диски, предназначенные для резки очень твердых материалов, таких как нержавеющая сталь, керамическая плитка и т.д.

3. Выбор пильного диска в зависимости от типа и толщины материала:



УГЛЕРОДИСТАЯ СТАЛЬ | INOX - нержавеющая сталь | АЛЮМИНИЙ | ЦВЕТНЫЕ МЕТАЛЛЫ | МЯГКАЯ ДРЕВЕСИНА | ТВЕРДАЯ ДРЕВЕСИНА | ФАНЕРА | ПЛАСТИК

4. Выбор пильного диска в зависимости от типа зубьев



Шлифованный | Шлифованный разведенный | Сточенный разведенный | Сточенный волнистый

5. Выбор пильного диска в зависимости от точности распила
(например TPI, шаг зубьев - количество зубьев на дюйм пильного диска (1 дюйм = 25,4 мм))

Обрабатываемый материал	Шаг зуба	Точность резки
МЕТАЛЛ	14 - 24 TPI	Чем выше значение шага (более мелкие зубья), тем выше точность, но ниже скорость резки
МЕТАЛЛ, ДРЕВЕСИНА И ПЛАСТИК	2 - 12 TPI	

6. Выбор пильного диска в зависимости от типа распила:

	Тип распила	Рекомендуемая ширина диска	
	прямой распил или с минимальной дугой	приб. 7-8 мм	
	распил по острой дуге	приб. 4 мм	
	резка мягкой древесины, грубый распил	приб. 7-8 мм 6-8TPI	
	резка древесины или отделочных плит	приб. 7-8 мм 10-12TPI	
	безопасная резка ламинированных плит	приб. 7-8 мм 10-12TPI	

 Хвойные, столярные доски
 Ламинированные доски
 Фанера
 Грубые прямые распилы
 Толщина распила фанеры
 Твердая древесина, МДФ, ДСП
 Точный прямолинейный распил
 Кухонные и рабочие столешницы
 Криволинейный распил
 Толщина распила древесины

AUSWAHL VON STICHSÄGEBLATT VON PROLINE

1. Wahl des Stichsägenblattes nach der Art der Klemme für das Stichsägenblatt in der Stichsäge

Schaft	Name	Verwendet bei Stichsägen der Hersteller:
	Typ T (Typ BOSCH)	AEG, ATLAS KOPRO, BOSCH, DeWALT, ELU, FESTO, FLEX, HITACHI, KANGO, KRESS, LENOX, HOLZHER, MAFELL, MAKITA, METABO, MILWAUKEE, PERLES, SPARKY, TRYTON, VULCAN CONCEPT
	Typ U (universell) (Typ Black & Decker)	BLACK & DECKER, KRESS, RYOBI, SKIL, STAYER, WOLF

2. Wahl des Stichsägenblattes nach der Materialart, aus der das Stichsägenblatt gefertigt ist

Um das richtige Stichsägenblattes für Ihre Anforderungen auszuwählen, müssen Sie zuerst die Art des zu schneidenden Materials (Holz, Metall, Kunststoff), die Dicke des Werkstücks (Klingen haben unterschiedliche Arbeitsbereiche), die Genauigkeit, mit der das Werkstück geschnitten werden soll (grob und schnell oder langsam und genau) und schließlich die Form des Schnittes (gerade, gebogen, gemischt) festlegen.

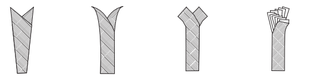
Kennzeichnung	Beschreibung
HCS	Carbon-Werkzeugstahl, die billigsten Sägeblätter mit der kürzesten Lebensdauer, hauptsächlich für das Schneiden von weichen Materialien wie Holz, Faserplatten, Kunststofflaminatplatten und Kunststoffen bestimmt. Glatte Sägeblätter aus diesem Material können zum Schneiden von Materialien wie Styropor verwendet werden.
CV	Hochwertiger Legierungsstahl, Chrom-Vanadium. Sägeblätter mit gutem Preis-Leistung-Verhältnis, die zum Schneiden von Holz, Möbelplatten und Kunststoffen bestimmt sind.
HSS	Hochleistungsschnellarbeitsstahl für Werkzeuge, perfekte Sägeblätter zum Schneiden von Holzwerkstoffen, Holz mit Nägeln, vor allem aber für Stahl, dünne Stahlbleche und das Schneiden von NE-Metallen.
Bi-metal	Eine Kombination aus elastischem Kohlenstoff- oder Chrom-Vanadium-Stahl mit HSS-Schnellarbeitsstahl, die teuerste Version von Premium-Qualitätsblättern mit um ein Vielfaches längeren Arbeitszeiten; das Schneiden von Holz, Kunststoffen und Metallen ist möglich.
HM, TC	Eine Nischengruppe von Sägeblättern sind Sägeblätter mit einer Wolframkarbidbeschichtung oder mit Hartmetalleinsätzen auf HM-Zähnen. Diese Klingen sind für das Schneiden sehr harter Materialien wie Edelstahl, Keramikfliesen usw. konzipiert.

3. Wahl des Stichsägenblattes nach Materialart und -stärke:



CARBON-STAHL | INOX - Edelstahl | ALUMINUM | EISENFREIE METALLE | WEICHHOLZ | HARTHOLZ | SPERR-HOLZ | KUNSTSTOFF

4. Wahl des Stichsägenblattes nach Zahnart



Geschliffen | Geschliffen, geschränkt | Gefräst, geschränkt | Gefräst, gewellt

5. Wahl des Stichsägenblattes nach Schnittgenauigkeit

(z. B. der TPI, die Zahndichte - die Anzahl der Zähne pro Inch des Sägeblattes (1 Inch = 25.4 mm))

Werkmaterial	Zahnanzahl	Schnittgenauigkeit
METALL	14 - 24 TPI	Je höher die Zahnanzahl (feinere Zähne) desto höher ist die Schnittgenauigkeit, aber desto geringer ist auch die Schnittgeschwindigkeit
METALL, HOLZ UND KUNSTSTOFF	2 - 12 TPI	

6. Wahl des Stichsägenblattes nach Schnittart:

	Schnittart	Empfohlene Sägeblattweite	
	geräder Schnitt oder schnitt mit minimalem Bogen	ca. 7-8 mm	
	Schnitt entlang eines scharfen Bogens	ca. 4 mm	
	Schneiden von Weichholz, raues Schneiden	ca. 7-8 mm 6-8TPI	
	Schneiden von Holz und Veredlungstafeln	ca. 7-8 mm 10-12TPI	
	sicheres Schneiden von laminierten Brettern	ca. 7-8 mm 10-12TPI	



PROLINE

1 JIGSAW BLADES

• ПИЛОЧКИ ДЛЯ ЭЛЕКТРОЛОБЗИКОВ • SÄGEBLATTER FÜR STICHSÄGE

- High-quality CrV steel
- Blades for wood, wood products, plastic, steel stainless steel, nonferrous metals
- Made in Germany
- In the set of 5 on a card



WOOD BLADES

Code	Grip	Blade length (Tooth type)	TPI / tooth pitch (mm)	Tooth length/ width (mm)	Tooth type	
93101	Type T	100mm / 4"	10TPI / 2.5mm	75	ground convergent	5
93401	Type U	100mm / 4"	10TPI / 2.5mm	75	ground convergent	5



• Precise, clean cut

93101L	Type T	132mm / 5,5"	10TPI / 2,5mm	110	ground convergent	5



• Precise, clean cut

93101KR	Type T	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5
93401KR	Type U	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5



• Precise, curvilinear cut

93102	Type T	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5
93402	Type U	100mm / 4"	10TPI / 2,5mm	75	ground convergent	5



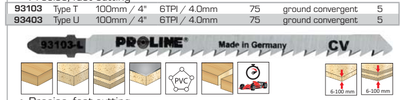
• Precise, clean cutting of laminated boards

93103	Type T	100mm / 4"	6TPI / 4.0mm	75	ground convergent	5
93403	Type U	100mm / 4"	6TPI / 4.0mm	75	ground convergent	5



• Precise, fast cutting

93103L	Type T	132mm / 5,2"	6TPI / 4.0mm	110	ground convergent	5



• Precise, fast cutting

93104	Type T	100mm / 4"	6TPI / 4.0mm	75	ground open	5
93404	Type U	100mm / 4"	6TPI / 4.0mm	75	ground open	5



• Very fast cutting

Code	Grip	Blade length (Tooth type)	TPI / tooth pitch	Tooth length/ width (mm)	Tooth type	
93105	Type T	100mm / 4"	6TPI / 4.0mm	75	ground open	5
93405	Type U	100mm / 4"	6TPI / 4.0mm	75	ground open	5



• Very fast curvilinear cutting

93106	Type T	100mm / 4"	8TPI / 3.0mm	75	milled wavy	5
93406	Type U	100mm / 4"	8TPI / 3.0mm	75	fmilled wavy	5



• Very fast coarse cutting

93108	Type T	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5
93408	Type U	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5



• Straight cutting of plexiglass, wood, particle boards

93109	Type T	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5
93409	Type U	75mm / 3"	12TPI / 2.0mm	50	milled wavy	5



• Curvilinear cutting of plexiglass, wood, particle boards

METAL BLADES

Code	Grip	Blade length (Tooth type)	TPI / tooth pitch (mm)	Tooth length/ width (mm)	Blade length (Tooth type)	
Material - high-quality high-alloy HSS tool steel						
93111	Type T	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5
93411	Type U	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5



• Precise, straight cutting of steel, aluminum and non-ferrous metals

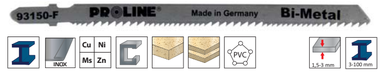
Material - a combination of elastic carbon or chrome vanadium steel with HSS high-speed steel

93111F	Type T	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5
93411F	Type U	75mm / 3"	21TPI / 1.2mm	50	milled wavy	5

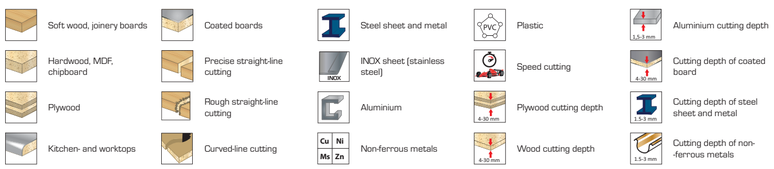


• Precise, straight cutting of steel, INOX, aluminum, non-ferrous metals

93150F	Type T	132mm / 5,2"	10TPI / 1.8mm	110	milled variables	5
93450F	Type U	132mm / 5,2"	10TPI / 1.8mm	110	milled variables	5



• Universal blade



PROLINE ABRASIVE BRUSHES

type	type	picture
A - wire cup brushes	a - crimped wire cup brushes	
	b - knot-twisted wire cup brushes	
B - wire wheel brushes	a - crimped wire wheel brushes	
	b - knot-twisted wire wheel brushes	
C - crimped wire shaft--mounted brushes	a - crimped wire shaft-mounted brushes	
	b - knot-twisted wire shaft-mounted brushes	
A - nylon cup brushes	a - shaft-mounted nylon cup brushes	
B - nylon wheel brushes	a - shaft-mounted nylon wheel brushes	
C - crimped nylon brushes	a - shaft-mounted crimped brushes	



for drills and screw drivers, with 6 mm shaft



for M14 angle grinders



for table grinders



twisted steel wire



crimped brass wire



nylon

АБРАЗИВНЫЕ ЩЕТКИ PROLINE

тип	тип	рисунок
A - чашечные проволочные щетки	a - чашечные щетки из волнистой проволоки	
	b - чашечные щетки из проволочной сетки	
B - дисковые проволочные щётки	a - дисковые щетки из волнистой проволоки	
	b - дисковые щетки из проволочной сетки	
C - щетки на валу из волнистой проволоки	a - щетки на валу из волнистой проволоки	
	b - щетки на валу из проволочной сетки	
A - нейлоновые чашечные щетки	a - нейлоновые чашечные щетки на валу	
B - нейлоновые дисковые щетки	a - нейлоновые дисковые щетки на валу	
C - нейлоновые щетки из волнистой проволоки	a - щетки из волнистой проволоки на валу	



для дрелей и отверток,
с хвостовиком 6 мм



для угла M14
шлифовальные машины



для настольных
шлифовальных машин



скрученная стальная
проволока



волнистая медная
проволока



нейлон

PROLINE SCHLEIFBÜRSTEN

Typ	Typ	Bild
A - Drahtschalenbürsten	a - Gecrimpte Drahtschalenbürsten	
	b - Zopfschalenbürsten	
B - Rundbürsten	a - Gecrimpte Rundbürsten	
	b - Zopfrundbürsten	
C - Gecrimpte Drahtbürsten mit Schaftbefestigung	a - Gecrimpte Drahtbürsten mit Schaftbefestigung	
	b - Zopfbürsten mit Schaftbefestigung	
A - Nylonschalenbürsten	a - Nylonschalenbürsten mit Schaftbefestigung	
B - Nylonrundbürsten	a - Nylonrundbürsten mit Schaftbefestigung	
C - Gecrimpte Nylonbürsten	a - Gecrimpte Bürsten mit Schaftbefestigung	



für Bohrmaschinen und Schraubendreher mit 6 mm Schaft



für M14 Winkelschleifer



für Tischschleifer



gezopfter Stahldraht



gecrimpter Messingdraht



Nylon

1 TWIST KNOT WIRE CUP BRUSH

• ТОРЦЕВАЯ ЧАШЕЧНАЯ ЩЕТКА ИЗ СКРУЧЕННОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • STIRNBÜRSTE MIT SCHAFT



- Steel twisted wire
- For heavy and very heavy works
- Remove paint, lagging, scale and sharp edges

Code	Diameter (mm)		
32457	75	x	12/120

2 CRIMPED WIRE CUP BRUSHES

• ТОРЦЕВЫЕ ЧАШЕЧНЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • PINSELBÜRSTEN MIT SCHAFT



- Steel undulating wire • For removing corrosion, paint, blunting sharp edges etc.

Code	Diameter (mm)		
32406	60	x	12/120
32408	80	x	12/120
32410	100	x	6/60

3 CRIMPED BRASS PLATED WIRE CUP BRUSHES

• ТОРЦЕВЫЕ ЧАШЕЧНЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • STIRNBÜRSTEN MIT SCHAFT



- Brass-covered undulating wire
- For removing corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32845	50	x	12/120
32847	75	x	12/120

4 ABRASIVE CUP BRUSHES

• ТОРЦЕВЫЕ ЧАШЕЧНЫЕ АБРАЗИВНЫЕ ЩЕТКИ С ХВОСТОВИКОМ • STIRNBÜRSTEN MIT SCHAFT



- Nylon

Code	Diameter (mm)		
32915	50	x	12/120
32917	75	x	12/120

5 TWIST KNOT WIRE CUP BRUSH

• КОНЦЕВАЯ ТОРЦЕВАЯ ЧАШЕЧНАЯ ЩЕТКА ИЗ СКРУЧЕННОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • PINSELBÜRSTE MIT SCHAFT



- Steel twisted wire • For any works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)		
32452	22	x	20/200

6 CRIMPED BRASS PLATED WIRE CUP BRUSHES

• КОНЦЕВЫЕ ТОРЦЕВЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • PINSELBÜRSTE MIT SCHAFT



- Brass-covered undulating wire
- For removing corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32861	17	x	20/200
32862	24	x	20/200

7 ABRASIVE END BRUSH

• КОНЦЕВАЯ ТОРЦЕВАЯ АБРАЗИВНАЯ ЩЕТКА С ХВОСТОВИКОМ • PINSELBÜRSTE MIT SCHAFT



- Nylon

Code	Diameter (mm)		
32924	24	x	20/200

8 TWIST KNOT WIRE WHEEL BRUSH

• ДИСКОВАЯ ЩЕТКА ИЗ СКРУЧЕННОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • SCHEIBENBÜRSTE MIT SCHAFT



- Steel twisted wire
- For heavy and very heavy works
- Remove paint, lagging, scale and sharp edges

Code	Diameter (mm)		
32447	75	x	12/120

9 CRIMPED WIRE WHEEL BRUSHES

• ДИСКОВЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • SCHEIBENBÜRSTEN MIT SCHAFT



- Brass-covered undulating wire
- For removing corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32426	63	x	12/120
32428	80	x	12/120
32430	100	x	12/120
32432	120	x	12/60

1 CRIMPED BRASS PLATED WIRE WHEEL BRUSHES

• ДИСКОВЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С ХВОСТОВИКОМ • SCHEIBENBÜRSTEN MIT SCHAFT



- Brass-covered undulating wire
- For any works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)		
32827	75	x	12/120
32830	100	x	12/120

2 ABRASIVE WHEEL BRUSHES

• ДИСКОВЫЕ АБРАЗИВНЫЕ ЩЕТКИ С ХВОСТОВИКОМ • SCHEIBENBÜRSTEN MIT SCHAFT



- Nylon

Code	Diameter (mm)		
32907	75	x	12/120
32910	100	x	12/120

3 TWIST KNOT WIRE WHEEL BRUSHES

• ДИСКОВЫЕ ЩЕТКИ ИЗ СКРУЧЕННОЙ ПРОВОЛОКИ С ПОСАДОЧНЫМ ОТВЕРСТИЕМ • SCHEIBENBÜRSTEN



- Steel twisted wire
- Remove paint, lagging, scale and sharp edges • For heavy and very heavy works

Code	Diameter (mm)		
32550	100	x	12/60
32551	115	x	6/60
32555	150	x	6/30
32558	175	x	6/24

4 CRIMPED WIRE WHEEL BRUSHES

• ДИСКОВЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С ПОСАДОЧНЫМ ОТВЕРСТИЕМ • SCHEIBENBÜRSTEN



- Steel undulating wire
- For any heavy and semi-heavy works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)	Opening (mm)		
32542	125	12.7; 16; 20	x	6/60
32545	150	12.7; 16; 20; 22; 25; 32	x	6/30
32549	200	12.7; 16; 20; 22; 25; 32	x	6/24

5 CRIMPED BRASS PLATED WIRE WHEEL BRUSHES

• ДИСКОВЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С ПОСАДОЧНЫМ ОТВЕРСТИЕМ • SCHEIBENBÜRSTEN



- Brass-covered undulating wire
- For any works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)	Opening (mm)		
32805	50	6.4	x	12/240
32807	75	10; 12.7	x	12/120
32810	100	10; 12.7	x	12/120
32812	115	10; 12.7; 16	x	6/60
32815	150	12.7; 16	x	6/60

6 TWIST KNOT WIRE WHEEL BRUSHES

• ДИСКОВЫЕ ЩЕТКИ ИЗ СКРУЧЕННОЙ ПРОВОЛОКИ С РЕЗЬБОЙ • SCHEIBENBÜRSTEN MIT GEWINDE



- Steel twisted wire
- For heavy and very heavy works
- Remove paint, lagging, scale and sharp edges

Code	Diameter (mm)		
32530	100	x	12/60
32532	125	x	6/30

7 CRIMPED WIRE WHEEL BRUSHES

• ДИСКОВЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С РЕЗЬБОЙ • SCHEIBENBÜRSTEN MIT GEWINDE



- Steel undulating wire • For any heavy and semi-heavy works, e.g. removal of paint, corrosion etc.

Code	Diameter (mm)		
32520	100	x	12/60
32521	115	x	6/60

8 TWIST KNOT WIRE CUP BRUSHES

• ТОРЦЕВЫЕ ЧАШЕЧНЫЕ ЩЕТКИ ИЗ СКРУЧЕННОЙ ПРОВОЛОКИ С РЕЗЬБОЙ • STIRNBÜRSTEN MIT GEWINDE



- Steel twisted wire • Aggressive brushes for quick and heavy work on a large surface
- Remove scale, paint, corrosion

Code	Diameter (mm)		
32576	65	x	6/60
32578	80	x	6/60
32580	100	x	5/20

9 CRIMPED WIRE CUP BRUSHES

• ТОРЦЕВЫЕ ЧАШЕЧНЫЕ ЩЕТКИ ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ С РЕЗЬБОЙ • STIRNBÜRSTEN MIT GEWINDE

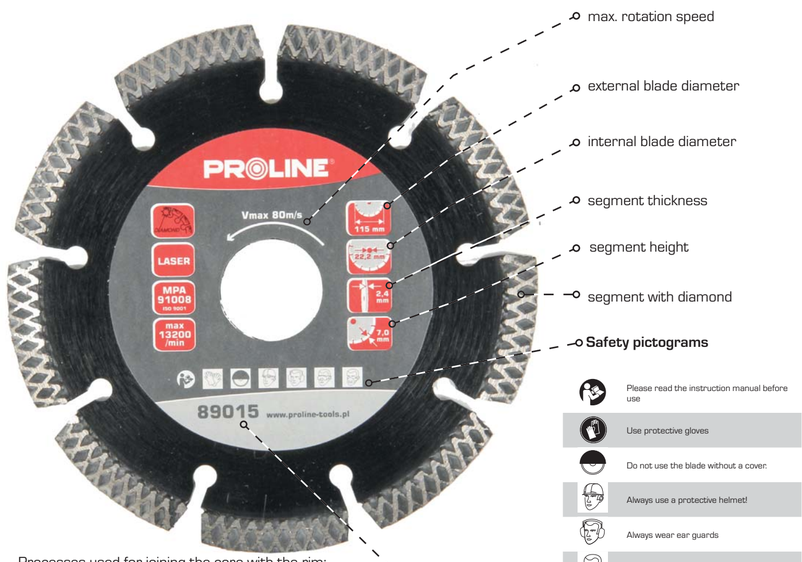


- Steel undulating wire • For light and semi-heavy removal of corrosion, paint, blunting sharp edges

Code	Diameter (mm)		
32507	75	x	6/60
32510	100	x	6/30

PROLINE DIAMOND BLADES

A diamond blade consists of a metal body, along whose perimeter there is a rim with diamond sintered in a metal bonding material. Industrial diamonds (synthetic) of various sizes and grains are used, depending on the purpose of the blades - between 15 and 30% diamond

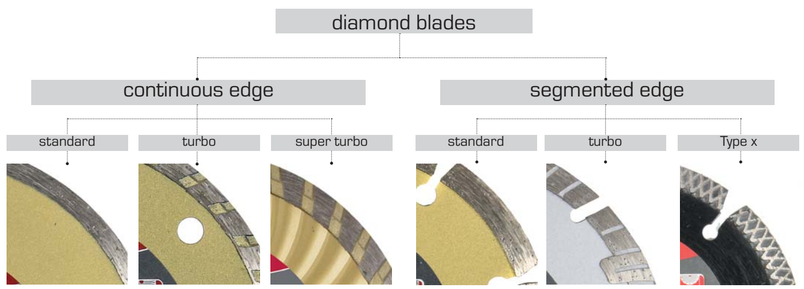


- max. rotation speed
- external blade diameter
- internal blade diameter
- segment thickness
- segment height
- segment with diamond
- **Safety pictograms**
- Product code



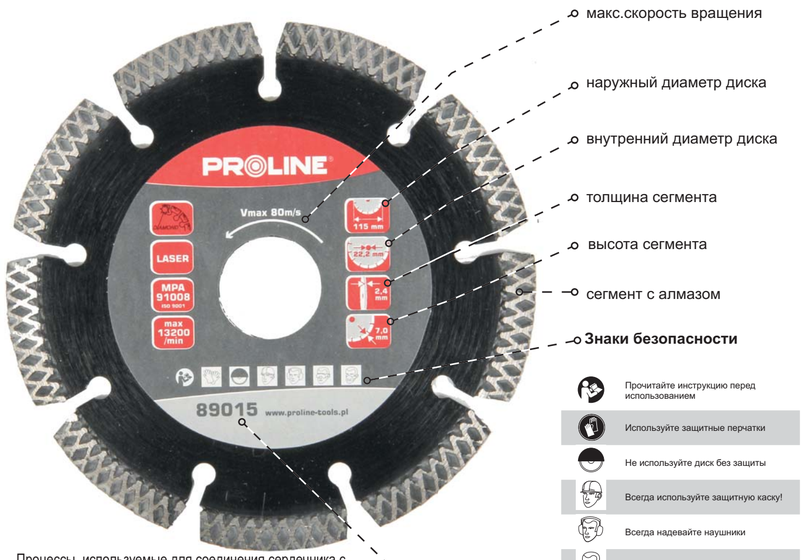
Processes used for joining the core with the rim:
- laser welding - the strongest connection,
- soldering - silver solder is used to connect the segments to the metal disc,
- sintering.

DIVISION OF BLADES



АЛМАЗНЫЕ ДИСКИ PROLINE

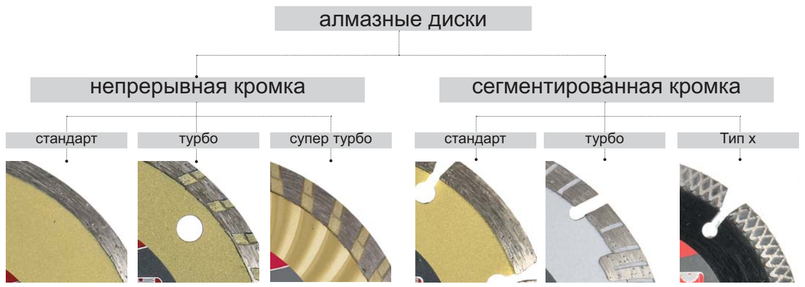
Алмазный диск состоит из металлического корпуса, по периметру которого находится ободок с алмазом, спеченным в металлическом связующем материале. Используются промышленные (синтетические) алмазы различных размеров и зернистости, в зависимости от использования дисков - от 15 до 30% содержания алмаза



Процессы, используемые для соединения сердечника с ободком:

- лазерная сварка - наиболее прочное соединение,
- пайка - для соединения сегментов с металлическим диском используется серебряный припой,
- спекание.

ВИДЫ ДИСКОВ



PROLINE DIAMANTSCHEIBEN

Eine Diamantscheibe besteht aus einer Metallscheibe, an deren Außenrand sich ein gesinterter Diamantrand in einem Metallklebematerial befindet. Industriediamanten (synthetische Diamanten) verschiedener Größen und Körnungen werden verwendet, je nach Verwendungszweck der Scheibe - zwischen 15 und 30% Diamanten



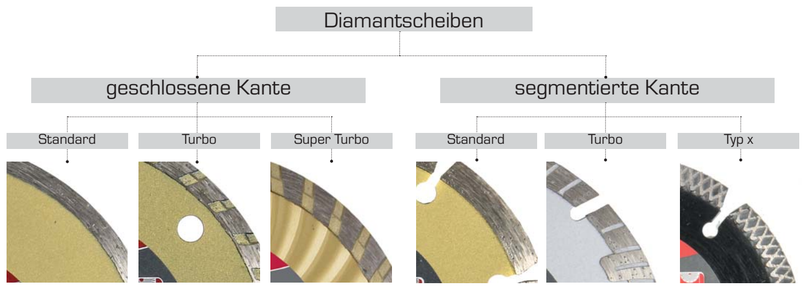
- max. Drehgeschwindigkeit
- Außendurchmesser der Scheibe
- Innendurchmesser der Scheibe
- Segmentdicke
- Segmenthöhe
- Segment mit Diamanten
- **Sicherheitspiktogramme**
- Produktcode

Bitte lesen Sie vor Gebrauch die Bedienungsanleitung.
Sicherheitshandschuhe verwenden.
Scheibe nicht ohne Abdeckung verwenden.
Immer Schutzhelm verwenden!
Immer Gehörschutz tragen!
Immer Schutzbrille verwenden!
Immer Gesichtsschutz verwenden!

Für die Verbindung des Kerns mit dem Rand verwendete Prozesse:

- Laserschweißen – die stärkste Verbindung,
- Löten – Silberlot wird verwendet, um die Segmente an der Metallscheibe zu befestigen,
- Sintern.

AUFTEILUNG DER SCHEIBEN



Primary and optional applications of Proline diamond blades

code	diamond blade	picture	stone	marble	granite	brick	brick ceramic	porcelain tiles	clinker brick	terracotta	tiles	concrete	reinforced concrete	asphalt	construction	edge
87101-104	continuous		X	O	O	X	X	O	O	O	O	O			sintering	continuous edge
86101-104	segmented		X	X	X	X			O	O		X	O		sintering	segmented
88715 - 733	segmented turbo		X	X	X	X	O	O	O	O		X	O		sintering	segmented tubro
88101-104	turbo		X	X	X	X	O		O	O	O	X			sintering	turbo with full edge
88111-114	super turbo		X		X	X	O		O	O	O	X			sintering	turbo with full edge
89115 - 350	segmented		X	X	X	X			O	O		X	O	O	laser welded	segmented
89015 - 033	segmented Type x		X	X	X	X	O	X	O	O	O	X	O	O	laser welded	segmented
89360 - 365	segmented		X	X	X	X		O	O	O		O	O	O	laser welded	segmented
89370 - 375	segmented		X	X	X	X		O	O	O			X	O	laser welded	segmented
89380 - 395	segmented		O	O	O	O		O	O	O		O	O	X	laser welded	segmented
89415 - 428	for grinding		X	X	X		O		O	O			O		soldered	segmented
89431 - 438	for grinding		X	X	X		O		O	O			O		soldered	segmented
89441 - 448	for grinding		X	X	X		O		O	O			O		soldered	segmented

x - main application
o - optional application

Основные и дополнительные виды применения алмазных дисков Proline

код	алмазный диск	рисунок	камень	мрамор	гранит	кирпич	кирпич керамика	керамогранит	клинкерный кирпич	терракота	плитка	бетон	железобетон	асфальт	строительные работы	кромка
87101-104	непрерывная		X	O	O	X	X	O	O	O	O	O	O		спекание	непрерывная кромка
86101-104	сегментированная		X	X	X	X			O	O		X	O		спекание	сегментированная
88715 - 733	сегментированная турбо		X	X	X	X	O	O	O	O		X	O		спекание	сегментированная турбо
88101-104	турбо		X	X	X	X	O		O	O	O	X			спекание	турбо с полной кромкой
88111-114	супер турбо		X		X	X	O		O	O	O	X			спекание	турбо с полной кромкой
89115 - 350	сегментированная		X	X	X	X			O	O		X	O	O	лазерная сварка	сегментированная
89015 - 033	Типы сегментов		X	X	X	X	O	X	O	O	O	X	O	O	лазерная сварка	сегментированная
89360 - 365	сегментированная		X	X	X	X		O	O	O		O	O	O	лазерная сварка	сегментированная
89370 - 375	сегментированная		X	X	X	X		O	O	O			X	O	лазерная сварка	сегментированная
89380 - 395	сегментированная		O	O	O	O		O	O	O		O	O	X	лазерная сварка	сегментированная
89415 - 428	для шлифования		X	X	X		O		O	O			O		пайка	сегментированная
89431 - 438	для шлифования		X	X	X		O		O	O			O		пайка	сегментированная
89441 - 448	для шлифования		X	X	X		O		O	O			O		пайка	сегментированная

x - основное использование
o - опциональное использование

PROLINE
LAMPARKO
HEXON
JUCO
DIAMEX BRANDS
ERDI
KLINGSPOR
EHWEISS
ACHDIAMANT
TRITON
VULCAN

Primäre und optionale Anwendungen der Diamantscheiben von Proline

Code	Diamantschneide	Bild	Stein	Marmor	Granit	Ziegel	Ziegel aus Keramik	Keramikfliesen	Klinker	Terrakotta	Fliesen	Beton	Bewehrter Beton	Asphalt	Konstruktion	Kante
87101-104	geschlossen		X	O	O	X	X	O	O	O	O	O			gesinterte	geschlossene Kante
86101-104	segmentiert		X	X	X	X			O	O		X	O		gesinterte	segmentiert
88715 - 733	segmentiert Turbo		X	X	X	X	O	O	O	O		X	O		gesinterte	segmentiert Tubro
88101-104	Turbo		X	X	X	X	O		O	O	O	X			gesinterte	Turbo mit geschlossener Kante
88111-114	Super Turbo		X		X	X	O		O	O	O	X			gesinterte	Turbo mit geschlossener Kante
89115 - 350	segmentiert		X	X	X	X			O	O		X	O	O	Laser-ge-schweißt	segmentiert
89015 - 033	segmentiert Typ x		X	X	X	X	O	X	O	O	O	X	O	O	Laser-ge-schweißt	segmentiert
89360 - 365	segmentiert		X	X	X	X		O	O	O		O	O	O	Laser-ge-schweißt	segmentiert
89370 - 375	segmentiert		X	X	X	X		O	O	O			X	O	Laser-ge-schweißt	segmentiert
89380 - 395	segmentiert		O	O	O	O		O	O	O		O	O	X	laserge-schweißt	segmentiert
89415 - 428	zum Schleifen		X	X	X		O		O	O			O		verlötet	segmentiert
89431 - 438	zum Schleifen		X	X	X		O		O	O			O		verlötet	segmentiert
89441 - 448	zum Schleifen		X	X	X		O		O	O			O		verlötet	segmentiert

x - Primäre Verwendung
o - Optionale Verwendung

1 CONTINUOUS DIAMOND DISIS

• АЛМАЗНЫЕ ДИСКИ ПОЛНЫЕ • DIAMANT-SEGMENTSCHEIBEN




• For wet cutting of: brick, stone, ceramic brick (optional: clinker, marble, gres tiles, granite, tiles)
• Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
87101	115	2.0 x 5.0	x	50/100
87102	125	2.2 x 5.0	x	50/100
87103	180	2.6 x 5.5	x	50
87104	230	2.8 x 5.5	x	25

2 CONTINUOUS DIAMOND DISIS

• АЛМАЗНЫЕ ДИСКИ ПОЛНЫЕ • DIAMANT-SEGMENTSCHEIBEN




• For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, ceramic brick) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
88101	115	2.0 x 7.5	x	50/100
88102	125	2.4 x 7.5	x	50/100
88103	180	2.7 x 7.5	x	50
88104	230	2.8 x 7.5	x	25

3 SUPER TURBO DIAMOND DISCS

• АЛМАЗНЫЕ ДИСКИ SUPER TURBO • DIAMANT-SCHEIBEN TURBO




• For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, ceramic brick) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
88111	115	2.0 x 7.5	x	50/100
88112	125	2.4 x 7.5	x	50/100
88113	180	2.7 x 7.5	x	50
88114	230	2.8 x 7.5	x	25

4 SEGMENTED DIAMOND DISIS

• АЛМАЗНЫЕ ДИСКИ СЕГМЕНТНЫЕ • DIAMANT-SEGMENTSCHEIBEN




• For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, reinforced concrete) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
86101	115	2.0 x 7.5	x	50/100
86102	125	2.2 x 7.5	x	50/100
86103	180	2.6 x 7.5	x	50
86104	230	2.8 x 7.5	x	25

5 SEGMENTED DIAMOND DISIS

• АЛМАЗНЫЕ ДИСКИ СЕГМЕНТНЫЕ • DIAMANT-SEGMENTSCHEIBEN




• For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, gres tiles, ceramic brick, reinforced concrete) • Construction: hot pressed

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
88715	115	1.8 x 7.5	x	50/100
88725	125	2.4 x 7.5	x	50/100
88730	180	2.6 x 7.5	x	25/50
88733	230	2.8 x 7.5	x	25

6 „X" TYPEE SEGMENTED DIAMOND DISCS

• АЛМАЗНЫЕ ДИСКИ СЕГМЕНТНЫЕ ТИПА X • DIAMANT-SEGMENTSCHEIBEN TYP „X"





• Special segment structure with X pressed shape improves speed and precision of cutting, shortens cooling and improves disc work stability
• For cutting: marble, brick, stone, gres tiles, granite, concrete (optional: clinker, tiles, ceramic brick, asphalt, ceramic tiles, reinforced concrete)
• Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89015	115	2.4 x 7.0	x	50/100
89025	125	2.5 x 7.0	x	50/100
89028	180	2.6 x 7.0	x	25
89033	230	2.8 x 7.0	x	25

1 SEGMENTED DIAMOND DISCS

• АЛМАЗНЫЕ СЕГМЕНТНЫЕ ДИСКИ • DIAMANT-SEGMENTSCHEIBEN





LASER · Ø22.2 mm · Ø25.4 mm · DIAMOND

- *89300, 89350 - opening 25.4 mm
- For cutting: marble, brick, stone, granite, concrete (optional: clinker, tiles, gres tiles, reinforced concrete, asphalt) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89115	115	2.0 x 8.0	x	50/100
89125	125	2.1 x 8.3	x	50/100
89180	180	2.2 x 8.5	x	25/50
89230	230	2.5 x 7.1	x	25
89300	300*	2.8 x 8.7	x	10
89350	350*	2.9 x 8.4	x	5/10

2 SEGMENTED DIAMOND DISCS

• АЛМАЗНЫЕ СЕГМЕНТНЫЕ ДИСКИ • DIAMANT-SEGMENTSCHEIBEN





LASER · Ø25.4 mm · DIAMOND

- For cutting: marble, brick, stone, granite (optional: clinker, tiles, gres tiles, concrete, reinforced concrete, asphalt) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89360	300	2.8 x 8.7	x	10
89365	350	2.9 x 8.4	x	10

3 SEGMENTED DIAMOND DISCS

• АЛМАЗНЫЕ СЕГМЕНТНЫЕ ДИСКИ • DIAMANT-SEGMENTSCHEIBEN





LASER · Ø25.4 mm · DIAMOND

- For cutting: marble, brick, stone, granite, concrete, reinforced concrete (optional: clinker, tiles, gres tiles, asphalt) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89370	300	2.8 x 8.7	x	5/10
89375	350	2.9 x 8.4	x	5/10

4 SEGMENTED DIAMOND DISCS

• АЛМАЗНЫЕ СЕГМЕНТНЫЕ ДИСКИ • DIAMANT-SEGMENTSCHEIBEN





LASER · Ø25.4 mm · DIAMOND

- For cutting: asphalt (optional: clinker, marble, tiles, brick, stone, gres tiles, granite, concrete, reinforced concrete) • Construction: laser welded

Code	Diameter (mm)	Cutting edge thickness x height (mm)		
89380	300	2.8 x 8.7	x	10
89385	350	2.9 x 8.4	x	5/10

5 GRINDING DIAMOND CUP WHEELS

• ТОРЦЕВЫЕ АЛМАЗНЫЕ ЧАШКИ СЕГМЕНТНЫЕ • DIAMANT-SEGMENTSCHLEIFSCHEIBE





Ø22.2mm · DIAMOND

- Universal discs for polishing stone, marble, granite, construction materials • Single segment

Code	Diameter (mm)	Segment length x thickness x heightm. (mm)		
89415	115	30 x 6 x 8	x	10/20
89425	125	30 x 6 x 8	x	10/20
89428	180	30 x 6 x 8	x	5/10

6 GRINDING DIAMOND CUP WHEELS

• ТОРЦЕВЫЕ АЛМАЗНЫЕ ЧАШКИ СЕГМЕНТНЫЕ • DIAMANT-SEGMENTSCHLEIFSCHEIBEN





Ø22.2mm · DIAMOND

- Universal discs for polishing stone, marble, granite, construction materials • Double segment

Code	Diameter (mm)	Segment length x thickness x heightm. (mm)		
89431	115	30 (20) x 6 x 8	x	10/20
89435	125	30 (20) x 6 x 8	x	10/20
89438	180	30 (20) x 6 x 8	x	5/10

1 TURBO GRINDING DIAMOND CUP WHEELS

• ТОРЦЕВЫЕ АЛМАЗНЫЕ ЧАШКИ ДЛЯ ШЛИФОВКИTURBO • DIAMANT-SCHLEIFSCHEIBEN TURBO







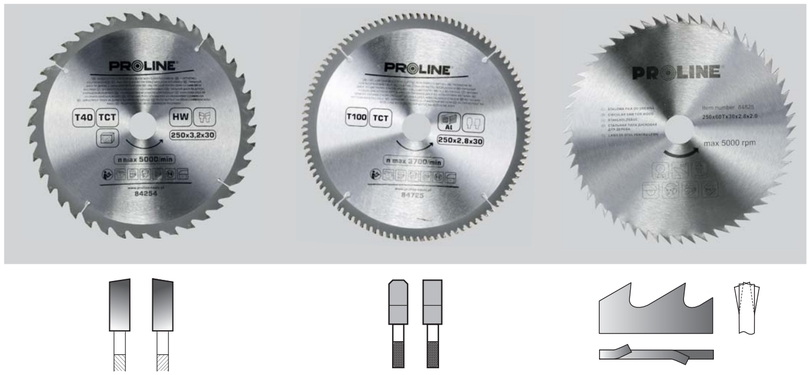
- Universal discs for polishing stone, marble, granite, construction materials

Code	Diameter (mm)	Segment length x thickness x heightm. (mm)		
89441	115	20 x 6 x 8	x	10/20
89445	125	20 x 6 x 8	x	10/20
89448	180	20 x 6 x 8	x	5/10



PROLINE CIRCULAR SAWS

Tooth shapes used in PROLINE circular saw blades





WZ - alternating teeth

A configuration in which the tooth blades are ground diagonally in alternating directions, once to the right, once to the left.

Universal, for use in soft and hard wood, boards, fibre materials and MDF

TFZ - trapezoidal / flat teeth

A tooth grinding in which a slightly trapezoidal tooth follows a slightly lower flat tooth. The higher tooth cuts the material slightly less than the final cutting gap, which prevents damage to the tooth or teeth breaking off in brittle materials

Universal, for use in form work and homogeneous materials: composites, laminated particle boards, plastics, plexiglass, non-ferrous metals, brass, copper, hard wood.

KB - alternating teeth

Teeth sharpened and extending to the sides. The teeth are cut using lasers, which assures accurate construction of the saws. The saw blade is made of high-quality steel, which has additionally been tensioned to harden the disc

Mainly for cross-cutting of soft and hard wood (incl. firewood), designed for work in hand-held and stationary saws.

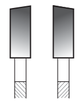
Exceptionally clean, precise cuts.

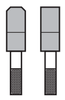
Tungsten carbide tipped (TCT) - an inorganic chemical compound containing tungsten and carbon, similar to titanium carbide. It has the highest (6000 °C) boiling point of all known compounds. Due to its high hardness, it is used in cutting tools and smoothing machines as a cheaper and more temperature-resistant alternative to diamonds. Sintered carbides, also known in Poland as „widia" or HM (from the German hartmetall), are used in many industries as components in tools that offer high strength, hardness and abrasion resistance.

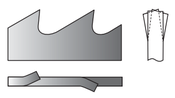
КРУГЛЫЕ ПИЛЫ PROLINE

Формы зубьев, используемые в дисковых пилах PROLINE

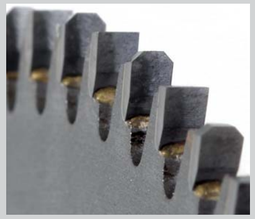


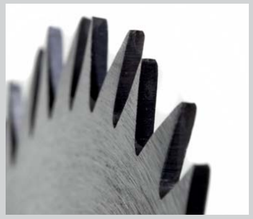












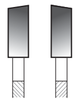
WZ - чередующиеся зубья	**TFZ - трапециевидные / плоские зубья**	**KB - чередующиеся зубья**
Конфигурация, в которой зубья заточены по диагонали в чередующихся направлениях, один раз вправо, один раз влево.	Заточка зубьев, когда слегка трапециевидные зубья следуют за немного более низкими плоскими зубьями. Более высокие зубья режут материал немного меньше, чем последний режущий зазор, что исключает повреждение или разрушение зубьев в хрупких материалах	Зубья заточены и расходятся в стороны. Зубья вырезаются лазером, что обеспечивает точную конструкцию пил. Пильный диск изготовлен из высококачественной стали, в которой было создано дополнительное растягивающее напряжение для упрочнения диска
Универсальный диск для использования в мягкой и твердой древесине, досках, волокнистых материалах и МДФ	Универсальный диск для использования в опалубке и однородных материалах: композиты, ламинированные ДСП, пластик, оргстекло, цветные металлы, латунь, медь, твердая древесина.	В основном для распиловки мягкой и твердой древесины (включая дрова), предназначенный для работы с ручными и стационарными пилами.
Равномерный точный распил		

Режущая пластина из карбида вольфрама (TCT) - неорганическое химическое соединение с содержанием вольфрама и углерода, аналогичное карбиду титана. Имеет наиболее высокую (6000 °C) температуру кипения среди всех известных соединений. Благодаря своей высокой твердости используется в режущих инструментах и шлифовальных станках как более дешевая и более устойчивая к температуре альтернатива алмазам. Спеченные карбиды, также известные в Польше как «widia» или HM (от немецкого hartmetall), используются во многих отраслях промышленности в качестве компонентов в инструментах, которые обладают высокой прочностью, твердостью и стойкостью к истиранию.

PROLINE KREISSÄGEBLÄTTER

In PROLINE-Kreissägeblättern verwendete Zahnformen















WZ - Wechselzahn	**FZ/TR - Trapez-/ Flachzahn**	**KB - Wechselzahn**
Eine Konfiguration, bei der die Zahnklingen diagonal abwechselnd einmal rechts, einmal links geschliffen werden.	Ein Zahnschliff, bei dem ein leicht trapezförmiger Zahn einem etwas niedrigeren Flachzahn folgt. Der höhere Zahn schneidet das Material etwas weniger als der endgültige Schnittspalt, wodurch verhindert wird, dass der Zahn oder die Zähne bei spröden Materialien abbrechen.	Zähne sind auf beiden Seiten geschärft und dehnen sich auf beide Seiten aus. Die Zähne werden mit Lasern geschnitten, was eine genaue Konstruktion der Sägeblätter gewährleistet. Das Sägeblatt besteht aus hochwertigem Stahl, der zusätzlich gespannt wurde, um die Sägeblätter zu härten.
Universell, für den Einsatz in Weich- und Hartholz, Brettern, Fasermaterialien und MDF-Platten.	Universell, für den Einsatz in Formarbeiten und für homogene Materialien: Verbundwerkstoffe, laminierte Spanplatten, Kunststoffe, Plexiglas, eisenfreie Metalle, Messing, Kupfer, Hartholz.	Hauptsächlich für den Querschnitt von Weich- und Hartholz (inkl. Brennholz), ausgelegt für den Betrieb in Handsägen und stationären Sägen.
Besonders saubere und präzise Schnitte.		

Tungsten-Carbide-Tipped (TCT) - eine anorganische chemische Verbindung, die Wolfram und Kohlenstoff enthält, ähnlich wie Titancarbid. Es hat den höchsten Siedepunkt (6000 ° C) aller bekannten Verbindungen. Aufgrund seiner hohen Härte wird es in Schneid- und Glättmaschinen als günstigere und temperaturbeständigere Alternative zu Diamanten eingesetzt. Gesinterte Carbide, in Polen auch als „Widia" oder HM (von Hartmetall) bekannt, werden in vielen Branchen als Komponenten in Werkzeugen eingesetzt, die eine hohe Festigkeit, Härte und Abriebfestigkeit bieten.

1 SAW BLADES WITH CHAIN FOR ANGLE GRINDERS

• ЦЕПНЫЕ ОТРЕЗНЫЕ ДИСКИ ДЛЯ УГЛОШЛИФОВАЛЬНЫХ МАШИН
• KETTENRADSCHEIBEN FÜR SCHLEIFER



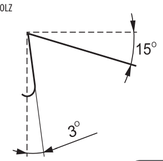
- High-speed discs for cutting wood: milling, making furrows, plugging
- Perimeter chain driven with a centrifugal force • Chain can be sharpened

Code	Diameter (mm)	Max. rpm [1/min.]		
86011	115	12000	x	50
86012	125	11000	x	50
86023	230	6800	x	10

2 CIRCULAR SAWS FOR WOOD

• ПИЛЬНЫЕ ДИСКИ ПО ДЕРЕВУ • KREISSÄGEN FÜR HOLZ







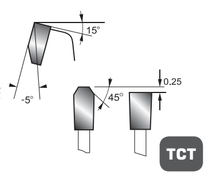
- Quenched and tempered discs • Packed in a box for hanging
- The saws are supplied with rings reducing the diameter of the installation opening

Code	Diameter (mm)	Opening/Reduction	Qty of teeth		
84818	180	20/16	60	x	25/50
84820	200	30/20/16	60	x	25/50
84825	250	30/20/16	60	x	10/20
84831	315	30/20/16	80	x	10/20
84835	355	30/20/16	60	x	5/10

3 CARBIDE TIPPED SAWS FOR NON-FERROUS METALS

• ПИЛЬНЫЕ ДИСКИ С ТВЕРДОСПЛАВНОЙ НАПАЙКОЙ ПО АЛЮМИНИЮ И СПЛАВАМ
• HM-KREISSÄGEN FÜR NICHTEISENMETALLE







- High quality sintered carbide • Quenched and tempered discs
- For cutting aluminium and its alloys • Packed in a box for hanging
- The saws are supplied with rings reducing the diameter of the installation opening

Code	Diameter (mm)	Opening/Reduction	Qty of teeth		
84720	200	30/20/16	100	x	25/50
84721	205	30/20/16	100	x	25/50
84722	210	30/20/16	100	x	25/50
84725	250	30/20/16	100	x	10/20

4 CARBIDE TIPPED SAWS FOR WOOD

• ПИЛЬНЫЕ ДИСКИ ПО ДЕРЕВУ С ТВЕРДОСПЛАВНОЙ НАПАЙКОЙ • HMKREISSÄGEN FÜR HOLZ





- High quality sintered carbide • Quenched and tempered discs • The saws up to the diameter of 250 mm are supplied with rings reducing the diameter of the installation opening • Packed in a box for hanging

Code	Ø (mm)	Opening/ Reduction	Qty of teeth		
84132	130	20/16/12.7	24	x	25/50
84133	130	20/16/12.7	30	x	25/50
84141	140	20/16/12.7	16	x	25/50
84142	140	20/16/12.7	24	x	25/50
84152	152	20/16/12.7	24	x	25/50
84161	160	20/16	18	x	25/50
84162	160	20/16	24	x	25/50
84163	160	20/16	30	x	25/50
84164	160	20/16	36	x	25/50
84165	160	20/16	48	x	25/50
84182	184	30/20/16	24	x	25/50
84183	184	30/20/16	36	x	25/50
84184	184	30/20/16	48	x	25/50
84186	184	30/20/16	60	x	25/50
84202	200	30/20/16	24	x	25/50
84204	200	30/20/16	40	x	25/50
84206	200	30/20/16	60	x	25/50
84207	205	30/20/16	24	x	25/50
84208	205	30/20/16	36	x	25/50
84212	210	30/20/16	24	x	25/50
84214	210	30/20/16	40	x	25/50
84216	210	30/20/16	60	x	25/50
84252	250	30/20/16	24	x	10/20
84254	250	30/20/16	40	x	10/20
84256	250	30/20/16	60	x	10/20
84304	300	30	40	x	10/20
84306	300	30	60	x	10/20
84308	300	30	80	x	10/20
84309	300	30	100	x	10/20
84314	315	30	40	x	10/20
84354	350	30	40	x	5/10
84355	350	30	54	x	5/10
84358	350	30	80	x	5/10
84404	400	30	40	x	5/10
84406	400	30	60	x	5/10
84408	400	30	80	x	5/10
84456	450	30	60	x	5
84459	450	30	100	x	5
84506	500	30	60	x	5
84509	500	30	100	x	5

PROLINE CUTTING AND GRINDING DISCS

Discs for cutting or grinding metal and stone are produced using a mixture of several ingredients. The main one is alumina or silicon carbide (SiC). The others are liquid and loose resins, a fibreglass mesh and fillers. The quality of the disc's production is influenced above all by the high-quality abrasive material, high-quality resins and correct reinforcement of the structure in the form of a fibreglass backing. For maximum cutting performance while maintaining user safety, it is advisable to use only cutting and grinding discs with grinders with the same external diameter.

Type designation

A - metal cutting disc. As an abrasive material, alumina (aluminum oxide) was used.
C - stone cutting disc. Silicon carbide (SiC) is the abrasive used,
60 - grain size (Granulation). The higher the number, the more grains fit on 1 mm 3 of the surface, i.e. the grains are smaller, which in turn means a cleaner cutting surface.
The lower grain size means a more aggressive disc, but the edges after cutting will be more jagged.
S - hardness of the disc body, which consists of filler and resin. The closer to the end of the Latin alphabet, the harder the disc. **L** to **O** - medium, **P** to **S** - hard, **T** to **W** - very hard

Disc dimensions in mm:
Outer diameter
X Mounting hole diameter
X disc thickness

For what material is the disc used

Permissible operating speeds

Maximum working speed

Expiry date:
discs can be used without restrictions up to a given date, e.g.
V01/2020 = 1st quarter 2020
V04/2020 = 2nd quarter 2020
V07/2020 = 3rd quarter 2020
V10/2020 = 4th quarter 2020

Safety pictograms



Use protective gloves.

Keep out of reach of children.

Always use safety goggles!

Keep out of reach of children. Abrasive product only for dry work. WET GRINDING NOT ALLOWED

Abrasive product for use only in cutting machines. SURFACE GRINDING NOT ALLOWED

Description of the disc's purpose in 13 languages

Manufactured in accordance with the EN12413 standard

Product code

Disc shape symbol

TYPES OF GRINDING DISC SHAPES

41
Flat disc



42
Depressed centre discs



27
Grinding discs with lower center

ОТРЕЗНЫЕ И ШЛИФОВАЛЬНЫЕ ДИСКИ PROLINE

Отрезные или шлифовальные диски для металла и камня производятся с использованием комбинации нескольких материалов. Основным материалом является оксид алюминия или карбид кремния (SiC). Остальные компоненты - жидкие и сыпучие смолы, сетка из стекловолокна и наполнители. На качество изготовления диска влияют, прежде всего, высококачественный абразивный материал, высококачественные смолы и правильное усиление конструкции в виде стекловолоконной основы. Для обеспечения максимальной производительности резки при сохранении безопасности пользователя рекомендуется использовать на станках отрезные и шлифовальные диски только с одинаковым наружным диаметром.

Обозначение типа

A - металлический отрезной диск. В качестве абразивного материала используется оксид алюминия.
C - камнерезный диск. Абразивным материалом выступает карбид кремния (SiC),
60 - размер зерна (грануляция). Чем больше число, тем больше зерен на 1 мм 3 поверхности, т.е. меньше размер зерна, что, в свою очередь, означает более чистую режущую поверхность. Чем меньше размер зерна, тем более агрессивный диск, но края после резки будут более зазубренными.
S - твердость корпуса диска, который состоит из наполнителя и смолы. Чем ближе к концу алфавита буква, тем тверже диск. **L** - **O** - средней твердости, **P** - **S** - твердый, **T** - **W** - очень твердый

Размер диска в мм:
Наружный диаметр
X Диаметр установочного отверстия
X толщина диска



Описание назначения диска на 13 языках

Для какого материала используется диск

Допустимые рабочие скорости
Максимальная рабочая скорость

Срок годности:
диски можно использовать без ограничения на указанную дату, например,
V01/2020 = 1. квартал 2020
V04/2020 = 2. квартал 2020
V07/2020 = 3. квартал 2020
V10/2020 = 4. квартал 2020

Предупреждающие знаки

Использовать защитные перчатки.

Хранить в недоступном для детей месте.

Всегда использовать защитные очки!

Хранить в недоступном для детей месте. Абразивный продукт только для сухой работы. ВЛАЖНАЯ ШЛИФОВКА ЗАПРЕЩЕНА

Абразивный продукт для использования только на отрезных станках. ШЛИФОВКА ПОВЕРХНОСТИ ЗАПРЕЩЕНА

Изготовлено в соответствии со стандартом EN12413

Код продукта

Символ формы диска

ВИДЫ ШЛИФОВАЛЬНЫХ ДИСКОВЫХ ПО ФОРМЕ

41
Плоский диск



42
Диски с углубленным центром



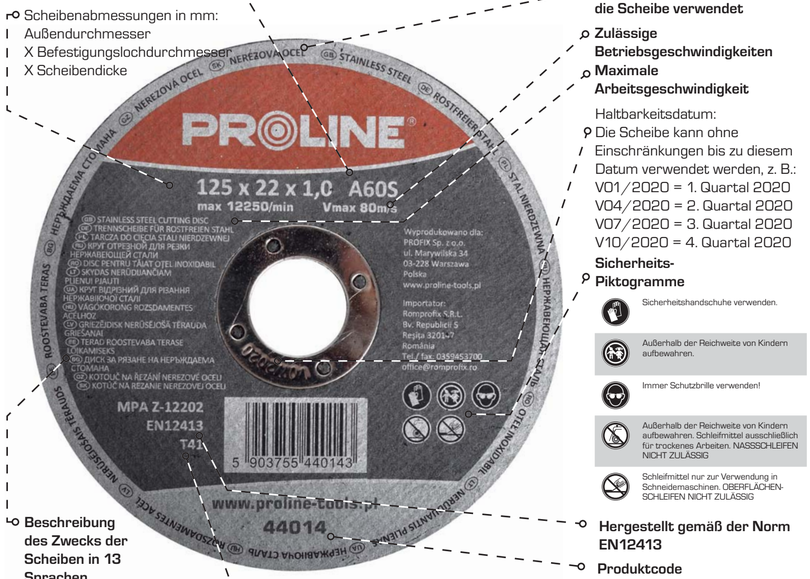
27
Шлифовальные диски с углубленным центром

PROLINE SCHNEID- UND SCHLEIFSCHEIBEN

Die Schneid- uns Schleifscheiben für die Bearbeitung von Metall und Stein werden aus einer Mischung aus verschiedenen Inhaltsstoffen hergestellt. Der Hauptbestandteil ist Korund oder Siliciumcarbid (SiC). Bei den anderen Bestandteilen handelt ist sich um flüssige oder lose Harze, ein Glasfasernetz und Füllstoffe. Die Qualität der Produktion der Scheiben wird vor allem durch das hochwertige Schleifmaterial, die hochwertigen Harze und die korrekte Verstärkung der Struktur in Form einer Glasfaserstützschicht beeinflusst. Für maximale Schneidleistung unter Beibehaltung der Anwendersicherheit wird empfohlen, nur Trenn- und Schleifscheiben mit Maschinen zu verwenden, die den gleichen Außendurchmesser haben.

Typenbezeichnung

A - Trennscheibe für Metall. Als Schleifmaterial wird Korund (Aluminiumoxid) verwendet.
C -Trennscheibe für Stein. Als Schleifmaterial wirdSiliciumcarbid (SiC) verwendet.
60 - Korngröße (Körnung). Je höher die Anzahl, desto mehr Körner passen auf 1 mm 3 der Oberfläche, d. h. die Körner sind kleiner, was wiederum eine sauberere Schneidfläche bedeutet.
Eine niedrigere Korngröße bedeutet eine aggressivere Scheibe, aber die Kanten sind nach dem Schneiden rauer.
S - Härte des Scheibenkörpers, der aus Füllstoff und Harz besteht. Je näher der Buchstabe am Ende des lateinischen Alphabets liegt, desto härter ist die Scheibe.**L** bis **O** - mittel, **P** bis **S** - hart, **T** bis **W** - sehr hart.



Scheibenabmessungen in mm:
Außendurchmesser
X Befestigungslochdurchmesser
X Scheibendicke

Für welches Material wird die Scheibe verwendet

Zulässige Betriebsgeschwindigkeiten

Maximale Arbeitsgeschwindigkeit

Haltbarkeitsdatum:
Die Scheibe kann ohne Einschränkungen bis zu diesem Datum verwendet werden, z. B.:
V01/2020 = 1. Quartal 2020
V04/2020 = 2. Quartal 2020
V07/2020 = 3. Quartal 2020
V10/2020 = 4. Quartal 2020

Sicherheits-Piktogramme

Sicherheitshandschuhe verwenden.

Außerhalb der Reichweite von Kindern aufbewahren.

Immer Schutzbrille verwenden!

Außerhalb der Reichweite von Kindern aufbewahren. Schleifmittel ausschließlich für trockenes Arbeiten. NASSSCHLEIFEN NICHT ZULÄSSIG

Schleifmittel nur zur Verwendung in Schneidemaschinen. OBERFLÄCHENSCHLEIFEN NICHT ZULÄSSIG

Beschreibung des Zwecks der Scheiben in 13 Sprachen

Hergestellt gemäß der Norm EN12413

Produktcode

Symbol der Scheibenform

ARTEN VON SCHLEIFSCHEIBENFORMEN

41
Flache Scheibe

42
Gekröpfte Schleifscheibe

27
Gekröpfte Schleifscheibe mit tieferen Mittelpunkt

1 CUTTING DISCS FOR STAINLESS STEEL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА, НЕРЖАВЕЮЩЕЙ И КИСЛОТОСТОЙКОЙ СТАЛИ
• TRENNSCHEIBEN FÜR EDELSTAHL



• Flat disc T41 • For cutting mild steel, aluminium, nonferrous metals, stainless steel, plexiglass

Code	Size (mm)	Opening (mm)	Type	
44011	115 x 1.2	22	A60S	25/500
44012	125 x 1.2	22	A60S	25/500
44013	115 x 1.0	22	A60S	25/500
44014	125 x 1.0	22	A60S	25/500
44018	180 x 1.6	22	A36S	10/200
44023	230 x 2.0	22	A36S	10/100
44030	300 x 3.2	32	A24Q	10
44035	350 x 3.5	32	A24Q	10
44040	400 x 4.0	32	A24Q	10

2 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА • TRENNSCHEIBEN FÜR METALLE



• For cutting metal • Flat disc T41

Code	Size (mm)	Opening (mm)	Type	
44110	115 x 1.0	22	A60S	25/500
44111	115 x 2.5	22	A30S	25/200
44112	125 x 2.5	22	A30S	25/200
44113	125 x 1.0	22	A60S	25/500
44118	180 x 2.5	22	A30S	10/100
44123	230 x 3.0	22	A30R	10/50

3 DEPRESSED CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА, ВЫПУКЛЫЕ • TRENNSCHEIBEN FÜR METALLE, GEWÖLBT



• For cutting metal • Convex disc T42

Code	Size (mm)	Opening (mm)	Type	
44211	115 x 2.5	22	A30S	25/200
44212	125 x 2.5	22	A36S	25/200
44223	230 x 3.0	22	A30R	10/50

4 DEPRESSED GRINDING DISCS FOR METAL

• ШЛИФОВАЛЬНЫЕ ДИСКИ ДЛЯ МЕТАЛЛА, ВЫПУКЛЫЕ • SCHLEIFSCHEIBEN FÜR METALLE, GEWÖLBT



• For grinding metal • Convex disc T27

Code	Size (mm)	Opening (mm)	Type	
44411	115 x 6.0	22	A24R	25/100
44412	125 x 6.0	22	A24R	25/100
44418	180 x 6.0	22	A24R	10/50
44423	230 x 6.0	22	A24R	10/40

5 CUTTING DISCS FOR STONE

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ КАМНЯ • TRENNSCHEIBEN FÜR STEIN



• For cutting mineral materials • Flat disc T41

Code	Size (mm)	Opening (mm)	Type	
44511	115 x 3.0	22	C30R	25/200
44512	125 x 3.0	22	C30S	25/200
44518	180 x3.0	22	C30S	10/100
44523	230 x 3.0	22	C30S	10/50

6 DEPRESSED CUTTING DISCS FOR STONE

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ КАМНЯ, ВЫПУКЛЫЕ • TRENNSCHEIBEN FÜR STEIN, GEWÖLBT



• For cutting mineral materials • Convex disc T42

Code	Size (mm)	Opening (mm)	Type	
44611	115 x 3.0	22	C30S	25/200
44612	125 x 3.0	22	C30S	25/200
44623	230 x 3.0	22	C30S	10/50

1 CERAMIC GRINDING DISC

• КЕРАМИЧЕСКИЙ ШЛИФОВАЛЬНЫЙ КРУГ
• KERAMIKSCHLEIFSCHEIBE



- Grain - 95A alumina. **Use:** for steel, stainless steel, cast iron

Code	Size (mm)	Granulation	
44870	125 x 16 x 12,7	60	20
44871	150 x 20 x 12,7	60	20
44872	200 x 20 x 16	60	20
44873	200 x 40 x 20	60	8

- Grain - 98C silicon carbide. **Use:** tungsten-carbide-tipped (TCT), high-speed steel (HSS), non-ferrous metals, ceramics, glass, concrete, stone, hard cast iron.

Code	Size (mm)	Granulation	
44874	125 x 16 x1 2,7	60	20
44875	150 x 20 x 12,7	60	20
44876	200 x 20 x 16	60	20
44877	200 x 40 x 20	60	8

2 FLAP DISCS

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ КРУГИ ТОРЦЕВЫЕ (ТИП КЛТ)
• SCHLEIFMOPTELLER





- Flap discs made from abrasive linen with corundum grain, applied evenly on the glass fibre body • **Application:** perfect for machining edges, seams on stainless steel, steel sheets, aluminium, brass, bronze, wood, plastic, paint and lacquer

Code	Size (mm)	Granulation	
44801	115	40	10/200
44802	115	60	10/200
44803	115	80	10/200
44804	115	120	10/200
44811	125	40	10/200
44812	125	60	10/200
44813	125	80	10/200
44814	125	120	10/200

3 LEAF GRINDING WHEEL

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ КРУГИ ТОРЦЕВЫЕ
• BLATT-SCHLEIFSCHEIBE



Ø22,2 mm | Vmax 80m/s

- Zirconia flap disc grinder • For grinding steel, stainless steel, acid resistant steel, non-ferrous metals, etc. Opening

Code	Diameter (mm)	Granulation	
44850	115	40	10/200
44851	115	60	10/200
44852	115	80	10/200
44853	115	120	10/200
44854	125	40	10/200
44855	125	60	10/200
44856	125	80	10/200
44857	125	120	10/200
44858	180	40	10/200
44859	180	60	10/100
44860	180	80	10/100
44861	180	120	10/100

4 FLAP WHEELS

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ КРУГИ С ОПРАВКОЙ (ТИП КЛО)
• SCHLEIFMOP



6mm

- Flap discs made from abrasive linen with corundum grain applied radially • **Application:** cleaning, finish polishing of components with complex shapes

Code	Size (mm)	Granulation	
44821	40 x 20	40	250
44822	40 x 20	60	250
44823	40 x 20	80	250
44824	40 x 20	100	250
44825	40 x 20	120	250
44831	60 x 30	40	100
44832	60 x 30	60	100
44833	60 x 30	80	100
44834	60 x 30	100	100
44835	60 x 30	120	100
44841	80 x 30	40	100
44842	80 x 30	60	100
44843	80 x 30	80	100
44844	80 x 30	100	100
44845	80 x 30	120	100

5 ABRASIVE CLOTH

• АБРАЗИВНОЕ ПОЛОТНО, РУЛОН
• SCHLEIFLEINEN



- Flexible fabric Type J • Full solid alumina coating • Binder – synthetic resin • **Use:** steel, cast iron, non-ferrous metals, plastics, paints and varnishes, wood

Code	Size (mm)	Granulation	
49060	150 x 3000	40	4
49061	150 x 3000	60	4
49062	150 x 3000	80	4
49063	150 x 3000	100	4
49064	150 x 3000	120	4
49065	150 x 3000	240	4
49070	150 x 5000	40	2
49071	150 x 5000	60	2
49072	150 x 5000	80	2
49073	150 x 5000	100	2
49074	150 x 5000	120	2
49075	150 x 5000	240	2
49080	200 x 5000	40	2
49081	200 x 5000	60	2
49082	200 x 5000	80	2
49083	200 x 5000	100	2
49084	200 x 5000	120	2
49085	200 x 5000	240	2

6 GRINDING DISCS WITH VELCRO

• АБРАЗИВНЫЕ КРУГИ НА ЛИПУЧКЕ • SCHLEIFSCHEIBEN MIT KLETTVERSCHLUSS



x5 | 125 mm

- Substrate: heavy paper Type E • Normal semi-open alumina coating • Synthetic resin binder • **Use:** wood, plywood, MDF, metal, plastic • Sold in packs of 5 pcs.

Code	Diameter (mm)	Granulation	
49130	125 mm	40	180
49131	125 mm	60	180
49132	125 mm	80	180
49133	125 mm	100	180
49134	125 mm	120	180
49135	125 mm	150	240
49136	125 mm	180	240
49137	125 mm	220	240
49138	125 mm	240	240

1 GRINDING DISCS WITH VELCRO

• АБРАЗИВНЫЕ КРУГИ НА ЛИПУЧКЕ С ОТВЕРСТИЯМИ
• SCHLEIFSCHEIBEN MIT KLETTVERSCHLUSS



x5 | 125 mm

- Substrate: heavy paper Type E. Normal semi-open alumina coating. Synthetic resin binder. **Use:** wood, plywood, MDF, metal, plastic

Code	Diameter (mm)	Granulation	
49140	125	40	180
49141	125	60	180
49142	125	80	180
49143	125	100	180
49144	125	120	180
49145	125	150	240
49146	125	180	240
49147	125	220	240
49148	125	240	240

2 DELTA ABRASIVE SHEETS

• АБРАЗИВНЫЕ ЛИСТЫ „DELTA" НА ЛИПУЧКЕ С ОТВЕРСТИЯМИ
• DELTA-SCHLEIFBLÄTTER



x5

- Substrate: heavy paper Type E • Normal semi-open alumina coating • Synthetic resin binder • **Use:** wood, plywood, MDF, metal, plastic

Code	Size (mm)	Granulation	
49150	93x93	40	320
49151	93x93	60	320
49152	93x93	80	320
49153	93x93	120	320
49154	93x93	240	320

3 FIBRE GRINDING DISCS

• ФИБРОВЫЕ АБРАЗИВНЫЕ КРУГИ • FASERSCHLEIFSCHEIBEN



x5 | 180 mm | FIBRA

- Substrate - fibre. Coating – normal full alumina. Binder - synthetic resin. **Use:** working metal, removing rust, scales, grinding welds. For angle grinders equipped with a disk for fibre disc pads (Proline, Code-27026)

Code	Diameter (mm)	Granulation	
49160	180	40	8/80
49161	180	60	10/100
49162	180	80	10/100
49163	180	100	12/120
49164	180	120	12/120
49165	180	180	12/120
49166	180	240	12/120

4 WATERPROOF SANDPAPER

• ВОДОСТОЙКАЯ АБРАЗИВНАЯ БУМАГА • WASSERDICHTES SCHLEIFPAPIER



- Abrasive paper, waterproof. Substrate latex-backed paper Type A. Full coating - silicon carbide. Synthetic resin binder. **Use:** for wet and dry grinding. For metal surfaces, plastics, paints and varnishes, glass, etc.
- Sold in bulk packs of 50 pieces – Code means 1 item

Code	Dimension (mm)	Granulation	
49100	280 x 230	60	50/500
49101	280 x 230	80	50/500
49102	280 x 230	100	50/500
49103	280 x 230	120	50/500
49104	280 x 230	150	50/500
49105	280 x 230	180	50/1000
49106	280 x 230	220	50/1000
49107	280 x 230	240	50/1000
49108	280 x 230	280	50/1000
49109	280 x 230	320	50/1000
49110	280 x 230	360	50/1000
49111	280 x 230	400	50/1000
49112	280 x 230	500	50/1000
49113	280 x 230	800	50/1000
49114	280 x 230	1200	50/1000
49115	280 x 230	1500	50/1000
49116	280 x 230	2000	50/1000
49117	280 x 230	2500	50/1000

5 SANDPAPER

• АБРАЗИВНАЯ БУМАГА В ЛИСТАХ • SCHLEIFPAPIER



- Substrate - paper Type C. Coating - normal solid alumina. Binder – synthetic resin. **Use:** wood, metal, plastics, paints and varnishes, etc. • Sold in bulk packs of 50 pcs – Product code means 1 pc.

Code	Dimension (mm)	Granulation	
49090	280x230	40	50/500
49091	280x230	60	50/500
49092	280x230	80	50/500
49093	280x230	100	50/1000
49094	280x230	120	50/1000
49095	280x230	150	50/1000
49096	280x230	180	50/1000
49097	280x230	220	50/1000
49098	280x230	240	50/1000

6 ABRASIVE CLOTH

• АБРАЗИВНОЕ ПОЛОТНО В ЛИСТАХ • SCHLEIFGEWEBE



- Elastic cloth Type J. Normal solid alumina coating. Synthetic resin binder. • **Use:** steel, cast iron, non-ferrous metals, plastics, paints and varnishes, wood. • Sold in bulk packs of 50 pcs – Product code means 1 pc.

Code	Dimension (mm)	Granulation	
49120	280x230	40	50/250
49121	280x230	60	50/500
49122	280x230	80	50/500
49123	280x230	100	50/500
49124	280x230	120	50/500
49125	280x230	180	50/1000
49126	280x230	220	50/1000
49127	280x230	240	50/1000

1 SANDPAPER

• АБРАЗИВНАЯ БУМАГА, РУЛОН • SCHLEIFPAPIER



- Substrate - paper Type D. Coating - normal semi-open alumina. Binder - synthetic resin. Width: 115 mm **Use:** wood, metal, plastics, paints and varnishes, gypsum, plaster, etc.

Code	Length (m)	Granulation	
49040	5	40	50
49041	5	60	50
49042	5	80	50
49043	5	100	50
49044	5	120	50
49045	5	240	50
49046	5	320	50
49050	50	40	4
49051	50	60	4
49052	50	80	4
49053	50	100	4
49054	50	120	4
49055	50	240	4
49056	50	320	4

2 ABRASIVE TAPES

• БЕСКОНЕЧНЫЕ АБРАЗИВНЫЕ ЛЕНТЫ • SCHLEIFBÄNDER



- Flexible heavy cloth Type X • Normal full alumina coating. • Synthetic resin binder
- **Use:** steel, cast iron, non-ferrous metals, plastics, paints and varnishes, wood

Code	Size (mm)	Granulation	
49020	75 x 457	40	40
49021	75 x 457	60	40
49022	75 x 457	80	40
49023	75 x 457	100	40
49024	75 x 457	120	40
49025	75 x 533	40	40
49026	75 x 533	60	40
49027	75 x 533	80	40
49028	75 x 533	100	40
49029	75 x 533	120	40
49030	100 x 610	40	30
49031	100 x 610	60	30
49032	100 x 610	80	30
49033	100 x 610	100	30
49034	100 x 610	120	30

3 RUBBER BACKING DISC

• РЕЗИНОВАЯ ОПОРНАЯ ТАРЕЛКА ДЛЯ АБРАЗИВНЫХ КРУГОВ С ХВОСТОВИКОМ • STÜTZTELLER FÜR SCHLEIFSCHEIBEN

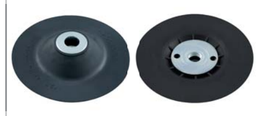


- **Application:** as an adapter for a drill on abrasive discs Ø 125 mm

Code	Ø (mm)	Max. rpm [1/min.]		
27034	125	3250	x	100

4 BACKING PAD

• ЭЛАСТИЧНЫЕ ОПОРНЫЕ ТАРЕЛКИ ДЛЯ ФИБРОВЫХ АБРАЗИВНЫХ КРУГОВ С ВНУТРЕННЕЙ РЕЗЬБОЙ M14 • STÜTZTELLER FÜR SCHLEIFFIBERSCHEIBEN



- **Application:** as an adapter for an angle grinder on fibre discs Ø 125 mm

Code	Ø (mm)	Max. rpm [1/min.]		
27023	115	10000	x	100
27024	125	10000	x	100
27026	180	6000	x	100

5 BACKING PAD

• РЕЗИНОВАЯ ОПОРНАЯ ТАРЕЛКА ДЛЯ АБРАЗИВНЫХ КРУГОВ С ХВОСТОВИКОМ • STÜTZTELLER FÜR SCHLEIFSCHEIBEN



- **Application:** as an adapter for a drill on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27035	125	3250	x	100

6 BACKING PAD

• ЭЛАСТИЧНАЯ ОПОРНАЯ ТАРЕЛКА ДЛЯ АБРАЗИВНЫХ КРУГОВ НУТРЕННЕЙ ЕЗЬ • STÜTZTELLER FÜR SCHLEIFSCHEIBEN



- **Application:** as an adapter for an angle grinder on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27036	125	12500	x	100

7 BACKING PAD

• ЭЛАСТИЧНАЯ ОПОРНАЯ ТАРЕЛКА ДЛЯ АБРАЗИВНЫХ КРУГОВ С ВНУТРЕННЕЙ РЕЗЬБОЙ M14 ПЛЮС ПЕРЕХОДНИК-АДАПТОР С ХВОСТОВИКОМ ДЛЯ ДРЕЛИ • STÜTZTELLER FÜR SCHLEIFSCHEIBEN



- **Application:** as an adapter for a drill and angle grinder on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27037	125	12500	x	100

8 BACKING PAD

• ОПОРНАЯ ТАРЕЛКА ДЛЯ АБРАЗИВНЫХ КРУГОВ VELCRO С ВНУТРЕННЕЙ РЕЗЬБОЙ M14 • STÜTZTELLER VERSTÄRKT FÜR SCHLEIFSCHEIBEN



- **Application:** as an adapter for an angle grinder on abrasive discs Ø 125 mm, self-adhesive

Code	Ø (mm)	Max. rpm [1/min.]		
27038	125	12500	x	100



LAHTI PRO®

LAHTIPRO.pl

Lahti Pro is a dynamically developing brand of professional clothing and personal protection equipment. Products under this brand are distinguished by their original and fashionable design, high-quality MATERIALS and precise finish. This means anyone looking for professional products that look good and are comfortable will find the right fit in the Lahti Pro range.

Lahti Pro is synonymous with a huge variety of designs, MATERIALS used and, what is very important, collections prepared for various budgets. Starting with basic solutions, through models offering increased functionality and finally, sets designed by Lahti Pro specialists that offer exceptional style and use the latest achievements in MATERIAL technology.

Lahti Pro also includes a wide selection of footwear and gloves. All available models combine extraordinary convenience with durability and resistance to damage, as confirmed by numerous tests.

Lahti Pro has a modern quality control centre. Each product made available for sale passes through a multi-stage testing process that covers the MATERIALS used and the workmanship.

Lahti Pro products are made in the world's best textile mills and specialised manufacturing facilities that meet high quality requirements. Every product under the Lahti Pro brand meets the requirements set by occupational health and safety regulations. It has all the necessary certificates and meets the standards for the intended work.



Lahti pro - это динамично развивающаяся марка рабочей одежды и средств индивидуальной защиты. Продукты, обозначенные этой маркой, отличаются оригинальным, модным дизайном, наивысшего качества МАТЕРИАЛАМИ изготовления и точной отделкой. Благодаря этому каждый, кто во время выполнения своих профессиональных обязанностей хочет хорошо и опрятно выглядеть, а также иметь комфорт в работе, найдет в ассортименте Lahti pro те продукты, которые удовлетворят его ожидания.

Lahti pro - это огромное разнообразие узоров, применяемых МАТЕРИАЛОВ, а также, что очень важно, - это коллекции, созданные для потребителей с различными финансовыми возможностями. От базовых решений, через модели с повышенной функциональностью, до проектируемых специалистами Lahti pro комплектов, отличающихся стилистикой и использованием новейших достижений технологий производства МАТЕРИАЛОВ.

Lahti pro - это также богатый выбор обуви и перчаток. Все доступные в продажи модели объединяют необычайно высокое удобство пользования и подтвержденная многочисленными испытаниями прочность и стойкость к повреждениям.

Lahti pro - это современный центр контроля качества. Каждый продукт, позднее доступный в продаже, проходит процесс многоэтапной проверки примененных МАТЕРИАЛОВ и точности выполнения.

Изделия Lahti pro создаются на наилучших в мире швейных фабриках и специализированных производственных предприятиях, отвечающих высоким требованиям качества. Каждый продукт марки Lahti pro соответствует требованиям в области безопасности и гигиены труда. Имеет все необходимые сертификаты и отвечает нормам, установленным для тех работ, для которых он предназначен.

Lahti Pro ist eine sich dynamisch entwickelnde Marke für Arbeitskleidung und persönliche Schutzausrüstung. Mit dieser Marke gekennzeichnete Produkte zeichnen sich durch originelles, modisches Design, hochwertige MATERIALIEN und ein präzises Finish aus. Dank dessen kann jeder, der während der Ausübung seiner beruflichen PflichtenWert auf Ästhetik und Komfort legt, im Sortiment von Lahti Pro Produkte finden, die seine Erwartungen erfüllen.

Bei Lahti Pro handelt es sich um eine Vielzahl von Designs, angewandte MATERIALIEN, und auch, was sehr wichtig ist, Kollektionen, die im Hinblick auf verschiedene finanzielle Möglichkeiten vorbereitet werden. Von Basislösungen über Modelle mit erweiterter Funktionalität bis hin zu Sets, die von Experten von Lahti Pro entworfen wurden, die sich durch ihren Stil auszeichnen und die neuesten Errungenschaften der MATERIAL-Technologie verwenden.

Lahti Pro bietet auch eine große Auswahl an Schuhen und Handschuhen. Alle auf dem Markt verfügbaren Modelle kombinieren einen außergewöhnlichen Benutzungskomfort und haben durch zahlreiche Tests Haltbarkeit und Widerstandsfähigkeit gegenüber Beschädigungen bewiesen.

Lahti Pro ist ein modernes Qualitätskontrollzentrum. Jedes Produkt, das später zum Verkauf angeboten wird, durchläuft einen mehrstufigen Prozess zur Überprüfung der verwendeten MATERIALIEN und der Präzision der Verarbeitung.

Lahti Pro-Produkte werden in den besten Nähräumen der Welt und in spezialisierten Produktionsstätten hergestellt, die den hohen Qualitätsanforderungen entsprechen. Jedes mit der Marke Lahti Pro gekennzeichnete Produkt erfüllt die Anforderungen der Gesundheits- und Sicherheitsvorschriften. Verfügt über alle erforderlichen Zertifikate und erfüllt die Normen für die Arbeiten, für die es bestimmt ist.

BODY PROTECTION



bib pants
coveralls
fleece jackets
jackets
overalls
raincoats
socks
soft-shell jackets
t-shirts
trousers
vests
welding clothes
and many others

1 PROTECTIVE JACKETS, SLIM FIT

• КУРТКИ ЗАЩИТНЫЕ, SLIM FIT • SICHERHEITS-SWEATSHIRTS, SLIM FIT

270 g/m²

4 WAY STRETCH LINE

EMF CELL PHONE PROTECTION





- MATERIAL: 35% cotton, 65% polyester
- 5 pockets, including 3 with zippers. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch inserts from a "4-way elastic" fabric (stretches in 4 directions) provide flexibility and comfort during use. Reflective inserts that increase safety during work. Double stitching. Zipper. Sleeves, neck and pockets reinforced with an abrasion-resistant fabric (500D polyester). Bottom of the sweatshirt and sleeves adjustable with Velcro straps. Stylish and interesting design. Slim fit. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4041001**	158-164	84-88	74-78	20
M	**L4041002**	164-170	92-96	82-86	20
L	**L4041003**	170-176	100-104	90-94	20
XL	**L4041004**	176-182	108-112	98-102	20
2XL	**L4041005**	182-188	116-120	106-110	20
3XL	**L4041006**	188-194	126-130	116-120	20

1 PROTECTIVE TROUSERS, SLIM FIT

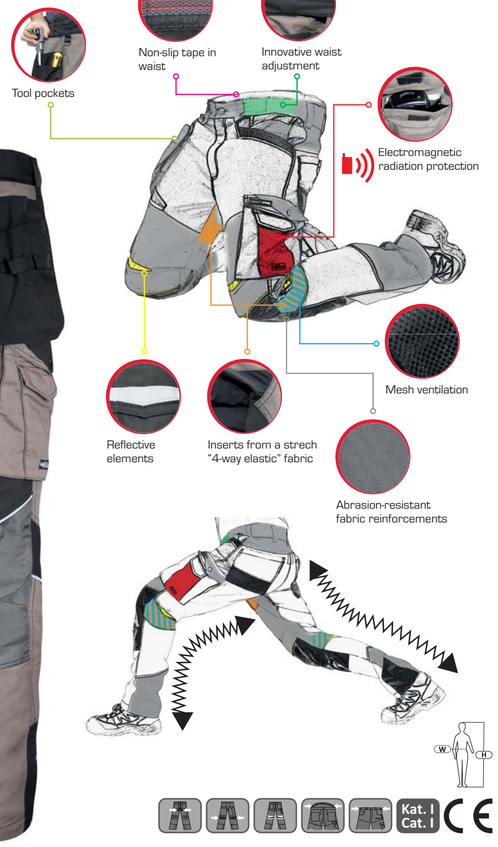
• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА, SLIM FIT • SCHUTZHOSE BIS ZUR TAILLE, SLIM FIT

270 g/m²

4-WAY STRETCH LINE

EMF CELL PHONE PROTECTION







Knee pads for protective trousers and bibpants
- see **page 398**

- MATERIAL: 35% cotton, 65% polyester
- 13 pockets, including 1 with a zipper. Practical tool pockets. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch inserts from a "4-way elastic" fabric (stretches in 4 directions) provide flexibility and comfort during use. Mesh ventilation at the knees. Reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Anti-slip tape at the waist (on the inside) preventing the upper body garment from slipping out of the trousers. Key ring. Loop for a hammer. 3 tape measure holders. Belt loops. Reinforced pockets, knee protector pockets and trouser bottom reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4050901**	158-164	74-78	20
M	**L4050902**	164-170	82-86	20
L	**L4050903**	170-176	90-94	20
XL	**L4050904**	176-182	98-102	20
2XL	**L4050905**	182-188	106-110	20
3XL	**L4050906**	188-194	116-120	20

1 PROTECTIVE BIB PANTS, SLIM FIT

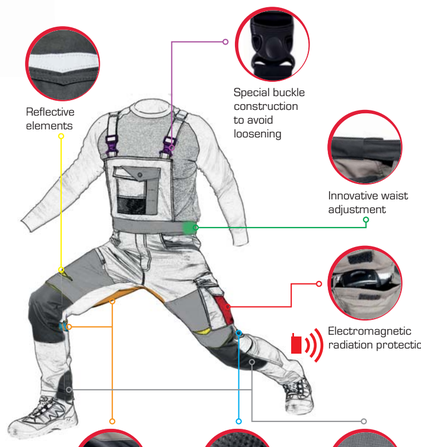
• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ, SLIM FIT • SCHUTZ-LATZHOSE, SLIM FIT

270 g/m²

4 WAY STRETCHLINE

EMF CELL PHONE PROTECTION





Reflective elements

Special buckle construction to avoid loosening

Innovative waist adjustment

Electromagnetic radiation protection

Inserts from a strech "4-way elastic" fabric

Mesh ventilation

Abrasion-resistant fabric reinforcements





Knee pads for protective trousers and bibpants
- see **page 398**



Kat. I Cat. I

- MATERIAL: 35% cotton, 65% polyester
- 13 pockets, including 1 with a zipper. Practical tool pockets. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch inserts from a "4-way elastic" fabric (stretches in 4 directions) provide flexibility and comfort during use. Mesh ventilation at the knees. Reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band.Key ring. Loop for a hammer. Length–adjustable braces. Reinforced pockets, knee protector pockets and trouser bottom reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060901**	158-164	74-78	20
M	**L4060902**	164-170	82-86	20
L	**L4060903**	170-176	90-94	20
XL	**L4060904**	176-182	98-102	20
2XL	**L4060905**	182-188	106-110	20
3XL	**L4060906**	188-194	116-120	20

LAHTI PRO®

1 JEANS TROUSERS, SLIM FIT

• БРЮКИ ДЖИНСОВЫЕ, SLIM FIT • JEANSHOSE, SLIM FIT

340 g/m²

EMF CELL PHONE PROTECTION



Electromagnetic radiation protection





Innovative waist adjustment



Elastic material with strech



Abrasion-resistant fabric reinforcements



Knee pads for protective trousers and bibpants
- see **page 398**





- MATERIAL: 70% cotton, 28% polyester, 2% elastane
- 12 pockets, including 2 with a snap fastener. Mobile phone pocket secured with a fabric reflecting electromagnetic radiation. Stretch fabric provides flexibility and comfort during use. Double stitching. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Key ring. Loop for a hammer. Belt loops. Pockets and knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). Slim fit. Stylish and interesting design. ID insert
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4051001**	158-164	74-78	20
M	**L4051002**	164-170	82-86	20
L	**L4051003**	170-176	90-94	20
XL	**L4051004**	176-182	98-102	20
2XL	**L4051005**	182-188	106-110	20
3XL	**L4051006**	188-194	116-120	20



1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN



270 g/m²

9 POCKETS



Reflective stripes



9 pockets



Mesh lining



Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 9 pockets, including 6 zipped ones. Mobile phone pocket. Zip. Ventilation openings and mesh lining to increase air circulation. Reflective stripes to improve work safety. Jacket sleeves and bottom adjustable with strong Velcros. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4040301**	158-164	86-90	80-84	10
M	**L4040302**	164-170	94-98	86-90	10
L	**L4040303**	170-176	102-106	92-96	10
XL	**L4040304**	176-182	110-114	98-102	10
2XL	**L4040305**	182-188	118-122	104-108	10
3XL	**L4040306**	188-194	126-130	110-114	10

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZBUNDHOSEN

270 g/m²

24 POCKETS







Reflective stripes



24 pockets



Removable and adjustable tool pockets



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 24 pockets, including 4 zipped ones. Practical tool pockets which can be adjusted and detached. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch. Waist width adjustable with strong Velcros. Key ring. 2 hammer loops. 2 tape measure loops. Pockets for knee pads. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4050201**	158-164	80-84	10
M	**L4050202**	164-170	86-90	10
L	**L4050203**	170-176	92-96	10
XL	**L4050204**	176-182	98-102	10
2XL	**L4050205**	182-188	104-108	10
3XL	**L4050206**	188-194	110-114	10

3 PROTECTIVE BIB PANT

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

270 g/m²

18 POCKETS







Reflective stripes



18 pockets



Special buckle construction to avoid loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 18 pockets, including 3 zipped ones. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch Waist width adjustable with buttons and a rubber band. Key ring. 2 hammer loops. 2 tape measure loops. Length-adjustable braces. Pockets for knee pads. Fashionable and appealing design. ID insert.
- NORM/ DIE NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060201**	158-164	80-92	10
M	**L4060202**	164-170	86-96	10
L	**L4060203**	170-176	92-102	10
XL	**L4060204**	176-182	98-108	10
2XL	**L4060205**	182-188	104-114	10
3XL	**L4060206**	188-194	110-120	10

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN



270 g/m²

100% COTTON

9 POCKETS



Reflective stripes



9 pockets



Mesh lining



Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 9 pockets, including 6 zipped ones. Mobile phone pocket. Zip. Ventilation openings and mesh lining to increase air circulation. Reflective stripes to improve work safety. Jacket sleeves and bottom adjustable with strong Velcros. Fashionable and appealing design. ID insert.
- NORM/ DIE NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4040601**	158-164	86-90	80-84	10
M	**L4040602**	164-170	94-98	86-90	10
L	**L4040603**	170-176	102-106	92-96	10
XL	**L4040604**	176-182	110-114	98-102	10
2XL	**L4040605**	182-188	118-122	104-108	10
3XL	**L4040606**	188-194	126-130	110-114	10

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZBUNDHOSEN

270 g/m²

100% COTTON

24 POCKETS





Knee pads for protective trousers and bibpants - see **page 398**





Reflective stripes



24 pockets



Removable and adjustable tool pockets

Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 24 pockets, including 4 zipped ones. Practical tool pockets which can be adjusted and detached. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch. Waist width adjustable with strong Velcros. Key ring. 2 hammer loops. 2 tape measure loops. Pockets for knee pads. Fashionable and appealing design. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4050501**	158-164	80-84	10
M	**L4050502**	164-170	86-90	10
L	**L4050503**	170-176	92-96	10
XL	**L4050504**	176-182	98-102	10
2XL	**L4050505**	182-188	104-108	10
3XL	**L4050506**	188-194	110-114	10

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZBUNDHOSEN

270 g/m²

100% COTTON

18 POCKETS





Knee pads for protective trousers and bibpants - see **page 398**





Reflective stripes



18 pockets



Special buckle construction to avoid loosening

Kat. I Cat. I CE

- MATERIAL: 100% bawełna
- 18 pockets, including 3 zipped ones. Practical tool pockets which can be adjusted and detached. Mobile phone pocket. Ventilation openings in the crotch to increase air circulation. Reflective stripes to improve work safety. Triple seams. Additional strengthening of seams in the crotch. Waist width adjustable with buttons and strong elastic band. Key ring. 2 hammer loops. 2 tape measure loops. Pockets for knee pads. Fashionable and appealing design. ID insert. Length–adjustable braces.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060501**	158-164	80-92	10
M	**L4060502**	164-170	86-96	10
L	**L4060503**	170-176	92-102	10
XL	**L4060504**	176-182	98-108	10
2XL	**L4060505**	182-188	104-114	10
3XL	**L4060506**	188-194	110-120	10

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SICHERHEITS-SWEATSHIRTS

245 g/m²





Reflective stripes



Abrasion-resistant fabric reinforcements



Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester
- 4 pockets, including 2 with Velcro straps. Double stitching. Zipper. Reflective strips that improve safety during work. Sleeves reinforced with an abrasion-resistant fabric (600D polyester). Bottom of the jacket and sleeves adjustable with Velcro straps. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**L4040801**	158-164	84-88	72-76	10
M	**L4040802**	164-170	92-96	82-86	10
L	**L4040803**	170-176	100-104	90-94	10
XL	**L4040804**	176-182	108-112	98-102	10
2XL	**L4040805**	182-188	116-120	106-110	10
3XL	**L4040806**	188-194	126-130	116-120	10

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZHOSE BIS ZUR TAILLE

245 g/m²







Reflective stripes



Tool pockets



Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester
- 16 pockets, including 1 with a Velcro strap. Practical tool pockets. Reflective strips that improve safety during work. Double stitching. Additional reinforcement of seams in the crotch area. Adjustable waist with an elastic band. Key ring. 6 loops for a hammer/measuring tape. Belt loops. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4050701**	158-164	72-76	10
M	**L4050702**	164-170	82-86	10
L	**L4050703**	170-176	90-94	10
XL	**L4050704**	176-182	98-102	10
2XL	**L4050705**	182-188	106-110	10
3XL	**L4050706**	188-194	116-120	10

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSE

245 g/m²







Reflective stripes



Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester
- 12 pockets, including 2 with Velcro straps. Reflective strips that improve safety during work. Double stitching. Additional reinforcement of seams in the crotch area. Adjustable waist with buttons and an elastic band. Key ring. Adjustable-length braces. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4060701**	158-164	72-76	10
M	**L4060702**	164-170	82-86	10
L	**L4060703**	170-176	90-94	10
XL	**L4060704**	176-182	98-102	10
2XL	**L4060705**	182-188	106-110	10
3XL	**L4060706**	188-194	116-120	10

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN

267 g/m²





Abrasion-resistant fabric reinforcemen

CERTYFIKAT
CIOP – PIB



Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket Zip. Ventilation openings with a mesh, zipped. Sleeves, yoke and pockets strengthened with a fabric (600D polyester). Sleeves ended with flexible cuffs. Width adjustment at the jacket bottom with buttons ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)		
S (48)	**LPBR0148**	164-170	88-96	78-84	x	10
M (50)	**LPBR0150**	170-176	96-104	82-86	x	10
L (52)	**LPBR0152**	176-182	104-108	84-90	x	10
2L (54)	**LPBR0154**	176-182	108-116	88-96	x	10
XL (56)	**LPBR0156**	182-188	116-124	96-102	x	10
3XL (60)	**LPBR0160**	194-200	124-132	104-110	x	10

2 PROTECTIVE TROUSERS

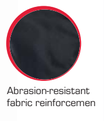
• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZBUNDHOSEN

CERTYFIKAT
CIOP – PIB

267 g/m²







Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket Triple seams. Waist width adjustment with buttons Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester) resistant to chafing.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**LPSR0148**	164-170	78-84	x	10
M (50)	**LPSR0150**	170-176	82-86	x	10
L (52)	**LPSR0152**	176-182	84-90	x	10
2L (54)	**LPSR0154**	176-182	88-96	x	10
XL (56)	**LPSR0156**	182-188	96-102	x	10
3XL (60)	**LPSR0160**	194-200	104-110	x	10

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

CERTYFIKAT
CIOP – PIB

267 g/m²





Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid loosening

Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons and a rubber band. Key ring. Hammer loop. Adjustable braces. Braces, pockets and knee pad pockets strengthened with an abrasion-resistant fabric a fabric (600D polyester)
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**LPSR0248**	164-170	78-90	x	10
M (50)	**LPSR0250**	170-176	82-92	x	10
L (52)	**LPSR0252**	176-182	84-96	x	10
2L (54)	**LPSR0254**	176-182	88-102	x	10
XL (56)	**LPSR0256**	182-188	96-108	x	10
3XL (60)	**LPSR0260**	194-200	104-116	x	10

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN

190 g/m²





Abrasion-resistant fabric reinforcemen

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket Zip. Ventilation openings to increase air circulation. Sleeves, yoke and pockets strengthened with a fabric (300D polyester) Sleeves adjustable with Velcro. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S (48)	**L4040448**	164-170	88-96	78-84	20
M (50)	**L4040450**	170-176	96-104	82-86	20
L (52)	**L4040452**	176-182	104-108	84-90	20
2L (54)	**L4040454**	176-182	108-116	88-96	20
XL (56)	**L4040456**	182-188	116-124	96-102	20
3XL (60)	**L4040460**	194-200	124-132	104-110	20

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZJACKEN

190 g/m²





Abrasion-resistant fabric reinforcemen

Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket Zip. Ventilation openings to increase air circulation. Sleeves, yoke and pockets strengthened with a fabric (300D polyester). Sleeves adjustable with Velcro. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S (48)	**L4050348**	164-170	78-84	20
M (50)	**L4050350**	170-176	82-86	20
L (52)	**L4050352**	176-182	84-90	20
2L (54)	**L4050354**	176-182	88-96	20
XL (56)	**L4050356**	182-188	96-102	20
3XL (60)	**L4050360**	194-200	104-110	20

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

190 g/m²





Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid self loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket Triple seams. Waist width adjustment with buttons and a rubber band Key ring. Hammer loop. Adjustable braces Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester).
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S (48)	**L4060348**	164-170	78-90	20
M (50)	**L4060350**	170-176	82-92	20
L (52)	**L4060352**	176-182	84-96	20
2L (54)	**L4060354**	176-182	88-102	20
XL (56)	**L4060356**	182-188	96-108	20
3XL (60)	**L4060360**	194-200	104-116	20

4 PROTECTIVE COVERALLS

• КОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZOVERALLS

190 g/m²





Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket Two-way zip. Ventilation openings to increase air circulation. Sleeves adjustable with Velcro Triple seams. Waist width adjustment with a rubber band. Key ring. Hammer loop. Sleeves, yoke, pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester) resistant to chafing. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S (48)	**L4150148**	164-170	88-96	78-84	20
M (50)	**L4150150**	170-176	96-104	82-86	20
L (52)	**L4150152**	176-182	104-108	84-90	20
2L (54)	**L4150154**	176-182	108-116	88-96	20
XL (56)	**L4150156**	182-188	116-124	96-102	20
3XL (60)	**L4150160**	194-200	124-132	104-110	20

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN

270 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Zip. Ventilation openings with a mesh, zipped. Reflective components. Sleeves, yoke and pockets strengthened with an abrasion-resistant fabric (600D polyester). Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with buttons. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)		
S (48)	**L4040148**	164-170	88-96	78-84	x	10
M (50)	**L4040150**	170-176	96-104	82-86	x	10
L (52)	**L4040152**	176-182	104-108	84-90	x	10
2L (54)	**L4040154**	176-182	108-116	88-96	x	10
XL (56)	**L4040156**	182-188	116-124	96-102	x	10
3XL (60)	**L4040160**	194-200	124-132	104-110	x	10

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZBUNDHOSEN

270 g/m²

100% COTTON







Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants - see **page 398**

Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons. Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**L4050148**	164-170	78-84	x	10
M (50)	**L4050150**	170-176	82-86	x	10
L (52)	**L4050152**	176-182	84-90	x	10
2L (54)	**L4050154**	176-182	88-96	x	10
XL (56)	**L4050156**	182-188	96-102	x	10
3XL (60)	**L4050160**	194-200	104-110	x	10

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

270 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid loosening

Knee pads for protective trousers and bibpants - see **page 398**

Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 10 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons and a rubber band Key ring. Hammer loop. Reflective components. Adjustable braces. Braces, pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**L4060148**	164-170	78-90	x	10
M (50)	**L4060150**	170-176	82-92	x	10
L (52)	**L4060152**	176-182	84-96	x	10
2L (54)	**L4060154**	176-182	88-102	x	10
XL (56)	**L4060156**	182-188	96-108	x	10
3XL (60)	**L4060160**	194-200	104-116	x	10

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN

270 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Zip. Ventilation openings with a mesh, zipped. Reflective components. Sleeves, yoke and pockets strengthened with (600D polyester). Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with buttons. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)		
S (48)	**L4040748**	164-170	88-96	78-84	x	10
M (50)	**L4040750**	170-176	96-104	82-86	x	10
L (52)	**L4040752**	176-182	104-108	84-90	x	10
2L (54)	**L4040754**	176-182	108-116	88-96	x	10
XL (56)	**L4040756**	182-188	116-124	96-102	x	10
3XL (60)	**L4040760**	194-200	124-132	104-110	x	10

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZBUNDHOSEN

270 g/m²

100% COTTON





Knee pads for protective trousers and bibpants
- see **page 398**





Abrasion-resistant fabric reinforcemen

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons. Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**L4050648**	164-170	78-84	x	10
M (50)	**L4050650**	170-176	82-86	x	10
L (52)	**L4050652**	176-182	84-90	x	10
2L (54)	**L4050654**	176-182	88-96	x	10
XL (56)	**L4050656**	182-188	96-102	x	10
3XL (60)	**L4050660**	194-200	104-110	x	10

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

270 g/m²

100% COTTON





Knee pads for protective trousers and bibpants
- see **page 398**





Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid loosening

Kat. I
Cat. I

- MATERIAL: 100% cotton.
- 10 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustment with buttons and a rubber band. Key ring. Hammer loop. Reflective components. Adjustable braces. Braces, pockets and knee pad pockets strengthened with an abrasion-resistant fabric (600D polyester). ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S (48)	**L4060648**	164-170	78-90	x	10
M (50)	**L4060650**	170-176	82-92	x	10
L (52)	**L4060652**	176-182	84-96	x	10
2L (54)	**L4060654**	176-182	88-102	x	10
XL (56)	**L4060656**	182-188	96-108	x	10
3XL (60)	**L4060660**	194-200	104-116	x	10

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN

190 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Zip. Ventilation openings to increase air circulation. Sleeves, yoke and pockets strengthened with an abrasion-resistant fabric (300D polyester). Sleeves adjustable with Velcro. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S (48)	**L4040548**	164-170	88-96	78-84	20
M (50)	**L4040550**	170-176	96-104	82-86	20
L (52)	**L4040552**	176-182	104-108	84-90	20
2L (54)	**L4040554**	176-182	108-116	88-96	20
XL (56)	**L4040556**	182-188	116-124	96-102	20
3XL (60)	**L4040560**	194-200	124-132	104-110	20

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZBUNDHOSEN

190 g/m²

100% COTTON







Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 9 pockets, including 6 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustable with buttons. Key ring. Hammer loop. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester).
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S (48)	**L4050448**	164-170	78-84	20
M (50)	**L4050450**	170-176	82-86	20
L (52)	**L4050452**	176-182	84-90	20
2L (54)	**L4050454**	176-182	88-96	20
XL (56)	**L4050456**	182-188	96-102	20
3XL (60)	**L4050460**	194-200	104-110	20

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

190 g/m²

100% COTTON





Abrasion-resistant fabric reinforcemen



Special buckle construction to avoid self loosening

Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I Cat. I CE

- MATERIAL: 100% cotton.
- 11 pockets, including 7 with Velcro fastening. Mobile phone pocket. Triple seams. Waist width adjustable with buttons and a rubber band. Key ring. Hammer loop. Adjustable braces. Pockets and knee pad pockets strengthened with an abrasion-resistant fabric (300D polyester).
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S (48)	**L4060448**	164-170	78-90	20
M (50)	**L4060450**	170-176	82-92	20
L (52)	**L4060452**	176-182	84-96	20
2L (54)	**L4060454**	176-182	88-102	20
XL (56)	**L4060456**	182-188	96-108	20
3XL (60)	**L4060460**	194-200	104-116	20

1 PROTECTIVE JACKETS

• КУРТКИ ЗАЩИТНЫЕ • SCHUTZJACKEN

Allton

245 g/m²





Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 5 pockets, including 3 with Velcro fastening. Mobile phone pocket. Triple seams. Zip. Width adjustment at the jacket bottom, with snap fasteners. Cuffs fastened with snap fasteners, enabling adjustment. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)	
S	**LPAB64S**	164	84-88	72-76	10
M	**LPAB70M**	170	92-96	82-86	10
M	**LPAB76M**	176	92-96	82-86	10
L	**LPAB76L**	176	100-104	90-94	10
L	**LPAB82L**	182	100-104	90-94	10
L	**LPAB88L**	188	100-104	90-94	10
XL	**LPAB76XL**	176	108-112	98-102	10
XL	**LPAB82XL**	182	108-112	98-102	10
XL	**LPAB88XL**	188	108-112	98-102	10
2XL	**LPAB822XL**	182	116-120	106-110	10
2XL	**LPAB882XL**	188	116-120	106-110	10
3XL	**LPAB943XL**	194	126-130	116-120	10

2 PROTECTIVE TROUSERS

• БРЮКИ ЗАЩИТНЫЕ ДО ПОЯСА • SCHUTZBUNDHOSEN

Allton

245 g/m²







Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 5 pockets, including 2 with Velcro fastening. Double seams. Waist width adjustment with a rubber band. Key ring. Knee pad pockets with Velcro fastening. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**LPAS64S**	164	72-76	10
M	**LPAS70M**	170	82-86	10
M	**LPAS76M**	176	82-86	10
L	**LPAS76L**	176	90-94	10
L	**LPAS82L**	182	90-94	10
L	**LPAS88L**	188	90-94	10
XL	**LPAS76XL**	176	98-102	10
XL	**LPAS82XL**	182	98-102	10
XL	**LPAS88XL**	188	98-102	10
2XL	**LPAS822XL**	182	106-110	10
2XL	**LPAS882XL**	188	106-110	10
3XL	**LPAS943XL**	194	116-120	10

3 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

Allton

245 g/m²







Special buckle construction to avoid self loosening



Knee pads for protective trousers and bibpants
- see **page 398**

Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Waist width adjustment with buttons and a rubber band. Key ring. Braces adjustable with a fastener and a rubber band. Knee pad pockets with Velcro fastening. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**LPAO64S**	164	72-76	10
M	**LPAO70M**	170	82-86	10
M	**LPAO76M**	176	82-86	10
L	**LPAO76L**	176	90-94	10
L	**LPAO82L**	182	90-94	10
L	**LPAO88L**	188	90-94	10
XL	**LPAO76XL**	176	98-102	10
XL	**LPAO82XL**	182	98-102	10
XL	**LPAO88XL**	188	98-102	10
2XL	**LPAO822XL**	182	106-110	10
2XL	**LPAO882XL**	188	106-110	10
3XL	**LPAO943XL**	194	116-120	10

1 PROTECTIVE VESTS

• ЖИЛЕТЫ ЗАЩИТНЫЕ • SCHUTZWESTEN

Allton

245 g/m²





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 8 pockets, including 2 zipped ones. Mobile phone pocket. Zip. Key ring. Tape measure loop. Mesh lining. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPAK1S**	158-164	84-88	20
M	**LPAK1M**	164-170	92-96	20
L	**LPAK1L**	170-176	100-104	20
XL	**LPAK1XL**	176-182	108-112	20
2XL	**LPAK12XL**	182-188	116-120	20
3XL	**LPAK13XL**	188-194	126-130	20

2 PROTECTIVE SHORTS

• ШОРТЫ ЗАЩИТНЫЕ КОРОТКИЕ • SCHUTZHOSEN KURZ

Allton

245 g/m²





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Width adjustment with a rubber band. Key ring. Narrow side pocket. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**LPAS1S**	158-164	72-76	20
M	**LPAS1M**	164-170	82-86	20
L	**LPAS1L**	170-176	90-94	20
XL	**LPAS1XL**	176-182	98-102	20
2XL	**LPAS12XL**	182-188	106-110	20
3XL	**LPAS13XL**	188-194	116-120	20

3 PROTECTIVE CROPPED PANTS

• БРЮКИ-КАПРИ ЗАЩИТНЫЕ • SCHUTZHOSEN 3/4

Allton

245 g/m²



Adjustable widht of the leg bottom with a special drawstring.





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 7 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Width adjustment with a rubber band. Width adjustment at the pants' bottom with a special drawstring. Key ring. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L1714012**	158-164	72-76	20
M	**L1714013**	164-170	82-86	20
L	**L1714014**	170-176	90-94	20
XL	**L1714015**	176-182	98-102	20
2XL	**L1714016**	182-188	106-110	20
3XL	**L1714017**	188-194	116-120	20

1 PROTECTIVE SHORTS

• ШОРТЫ ЗАЩИТНЫЕ КОРОТКИЕ • SCHUTZHOSEN KURZ

245 g/m²

100% COTTON





Kat. I
Cat. I

CE

- MATERIAL: 100% cotton.
- 10 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Waist width adjustment with a rubber band. Key ring. Hammer loop. Tape measure loop. Narrow side pocket. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4070401**	158-164	72-76	20
M	**L4070402**	164-170	82-86	20
L	**L4070403**	170-176	90-94	20
XL	**L4070404**	176-182	98-102	20
2XL	**L4070405**	182-188	106-110	20
3XL	**L4070406**	188-194	116-120	20

2 PROTECTIVE SHORTS

• ШОРТЫ ЗАЩИТНЫЕ КОРОТКИЕ • SCHUTZHOSEN KURZ

245 g/m²

100% COTTON





Kat. I
Cat. I

CE

- MATERIAL: 100% cotton.
- 10 pockets, including 4 with Velcro fastening. Mobile phone pocket. Double seams. Waist width adjustment with a rubber band. Key ring. Hammer loop. Tape measure loop. Narrow side pocket. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4070301**	158-164	72-76	20
M	**L4070302**	164-170	82-86	20
L	**L4070303**	170-176	90-94	20
XL	**L4070304**	176-182	98-102	20
2XL	**L4070305**	182-188	106-110	20
3XL	**L4070306**	188-194	116-120	20



1 PROTECTIVE CLOTHES — SETS (JACKET & BIB PANTS)

• ЗАЩИТНАЯ ОДЕЖДА – КОМПЛЕКТЫ (КУРТКА, ПОЛУКОМБИНЕЗОН) • SCHUTZKLEIDUNG - SETS (JACKE, LATZHOSE) DUNKELBLAU

Quest

210 g/m²



Special buckle construction to avoid self loosening











Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- **Jacket:** 2 pockets with Velcro fastening. Double seams. Ventilation openings to improve air circulation. Width adjustment at the jacket bottom with a rubber band. Buttoned-up cuffs. ID insert. **Bib pants:** 6 pockets, including 1 with a zip fastener. Double seams. Waist width adjustment with buttons and a rubber band. Adjustable braces with a fastener and a rubber band. Loop for hammer and tape measure. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	W (cm)	
S	**LPQK64S**		**LPQA64S**		**LPQC64S**		**LPQE64S**		164	84-88	72-76	5
M	**LPQK70M**		**LPQA70M**		**LPQC70M**		**LPQE70M**		170	92-96	82-86	5
M	**LPQK76M**		**LPQA76M**		**LPQC76M**		**LPQE76M**		176	92-96	82-86	5
L	**LPQK76L**		**LPQA76L**		**LPQC76L**		**LPQE76L**		176	100-104	90-94	5
L	**LPQK82L**		**LPQA82L**		**LPQC82L**		**LPQE82L**		182	100-104	90-94	5
L	**LPQK88L**		**LPQA88L**		**LPQC88L**		**LPQE88L**		188	100-104	90-94	5
XL	**LPQK76XL**		**LPQA76XL**		**LPQC76XL**		**LPQE76XL**		176	108-112	98-102	5
XL	**LPQK82XL**		**LPQA82XL**		**LPQC82XL**		**LPQE82XL**		182	108-112	98-102	5
XL	**LPQK88XL**		**LPQA88XL**		**LPQC88XL**		**LPQE88XL**		188	108-112	98-102	5
2XL	**LPQK822XL**		**LPQA822XL**		**LPQC822XL**		**LPQE822XL**		182	116-120	106-110	5
2XL	**LPQK882XL**		**LPQA882XL**		**LPQC882XL**		**LPQE882XL**		188	116-120	106-110	5
3XL	**LPQK943XL**		**LPQA943XL**		**LPQC943XL**		**LPQE943XL**		194	126-130	116-120	5

1 PROTECTIVE BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZLATZHOSEN

Quest

210 g/m²



Special buckle construction to avoid self loosening





Kat. I Cat. I CE

- MATERIAL: 35% cotton, 65% polyester.
- 6 pockets, including 1 with Zip. Double seams. Waist width adjustment with buttons and a rubber band. Braces adjustable with a fastener and a rubber band. Loop for hammer and tape measure. Contrasting seams, emphasizing the precision of finish. ID insert.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**LPQL64S**		**LPQB64S**		**LPQD64S**		164	72-76	10
M	**LPQL70M**		**LPQB70M**		**LPQD70M**		170	82-86	10
M	**LPQL76M**		**LPQB76M**		**LPQD76M**		176	82-86	10
L	**LPQL76L**		**LPQB76L**		**LPQD76L**		176	90-94	10
L	**LPQL82L**		**LPQB82L**		**LPQD82L**		182	90-94	10
L	**LPQL88L**		**LPQB88L**		**LPQD88L**		188	90-94	10
XL	**LPQL76XL**		**LPQB76XL**		**LPQD76XL**		176	98-102	10
XL	**LPQL82XL**		**LPQB82XL**		**LPQD82XL**		182	98-102	10
XL	**LPQL88XL**		**LPQB88XL**		**LPQD88XL**		188	98-102	10
2XL	**LPQL822XL**		**LPQB822XL**		**LPQD822XL**		182	106-110	10
2XL	**LPQL882XL**		**LPQB882XL**		**LPQD882XL**		188	106-110	10
3XL	**LPQL943XL**		**LPQB943XL**		**LPQD943XL**		194	116-120	10

LAHTI PRO

1 REINFORCED WELDING CLOTHES – SETS (JACKET, BIB PANTS)

- ОДЕЖДА ДЛЯ СВАРЩИКА УСИЛЕННАЯ – КОМПЛЕКТЫ (КУРТКА, ПОЛУКОМБИНЕЗОН)
- SCHWEISSERKLEIDUNG VERSTÄRKT - SETS (JACKE, LATZHOSE)

380 g/m²

100% COTTON

EN ISO 11611:2015 A1+A2 class 1

EN ISO 11612:2015 A1+A2 B1 C1

CERTYFIKAT CIOP – PIB

Special buckle construction to avoid self loosening





Kat. II Cat. II CE

- MATERIAL: 100% cotton.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), convection heat (performance level B1) and thermal radiation (performance level C1). Made from thick cotton textile with a special satin weave and fire-retardant finish. The front of the jacket and the bib pants and the lower part of the sleeves are reinforced with the double textile layer to improve protection. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013.
  Jacket: Zip covered with a snap-fastened fold. 2 zipped inner pockets. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners to enable adjustment. High-quality zip from a renowned supplier and YKK snap fasteners.
  Bib pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140511**	164-170	96-104	84-92	20
M (A)	**L4140512**	170-176	96-104	84-92	20
M (B)	**L4140522**	170-176	104-112	92-100	20
L (A)	**L4140513**	176-182	96-104	84-92	20
L (B)	**L4140523**	176-182	104-112	92-100	20
L (C)	**L4140533**	176-182	112-120	100-108	20
XL (A)	**L4140514**	182-188	96-104	84-92	20
XL (B)	**L4140524**	182-188	104-112	92-100	20
XL (C)	**L4140534**	182-188	112-120	100-108	20
2XL (B)	**L4140525**	188-194	104-112	92-100	20
2XL (C)	**L4140535**	188-194	112-120	100-108	20
3XL (C)	**L4140536**	194-200	112-120	100-108	20

2 REINFORCED CUFF WELDING CLOTHES - SETS (JACKET, BIB PANTS

- ОДЕЖДА ДЛЯ СВАРЩИКА С УСИЛЕННЫМИ МАНЖЕТАМИ - КОМПЛЕКТЫ (КУРТКА, ПОЛУКОМБИНЕЗОН)
- SCHWEISSERKLEIDUNG MIT VERSTÄRKTEN MANSCHETTEN - SETS (JACKE, LATZHOSE)

380 g/m²

100% COTTON

EN ISO 11611:2015 A1+A2 class 1

EN ISO 11612:2015 A1+A2 B1 C1

CERTYFIKAT CIOP – PIB

Special buckle construction to avoid self loosening





Kat. II Cat. II CE

- MATERIAL: 100% cotton.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), convection heat (performance level B1) and thermal radiation (performance level C1). Made from thick cotton textile with a special satin weave and fire-retardant finish. The jacket cuffs are reinforced with the double textile layer to improve protection. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013.
  Jacket: Zip covered with a snap-fastened fold. 2 zipped inner pockets. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners to enable adjustment. High-quality zip from a renowned supplier and YKK snap fasteners.
  Bib pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140611**	164-170	96-104	84-92	20
M (A)	**L4140612**	170-176	96-104	84-92	20
M (B)	**L4140622**	170-176	104-112	92-100	20
L (A)	**L4140613**	176-182	96-104	84-92	20
L (B)	**L4140623**	176-182	104-112	92-100	20
L (C)	**L4140633**	176-182	112-120	100-108	20
XL (A)	**L4140614**	182-188	96-104	84-92	20
XL (B)	**L4140624**	182-188	104-112	92-100	20
XL (C)	**L4140634**	182-188	112-120	100-108	20
2XL (B)	**L4140625**	188-194	104-112	92-100	20
2XL (C)	**L4140635**	188-194	112-120	100-108	20
3XL (C)	**L4140636**	194-200	112-120	100-108	20

1 WELDING CLOTHES — SETS (JACKET, BIB PANTS)

• СВАРОЧНАЯ ОДЕЖДА - КОМПЛЕКТЫ (КУРТКА И ПОЛУКОМБИНЕЗОН)
• SCHWEISSERKLEIDUNG - SETS (JACKE, LATZHOSE)

320 g/m²

100% COTTON

EN ISO 11611:2015 A1+A2 class 1

EN ISO 11612:2015 A1+A2 B1 C1 E2 F1

Special buckle construction to avoid self loosening



Kat. II
Cat. II CE

- MATERIAL: 100% cotton.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), molten iron spatter (performance level E2), convection heat (performance level B1), contact heat (performance level F1) and thermal radiation (performance level C1). Made from thick cotton textile with a fire-retardant finish. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013.
  Jacket: buttoned-up, buttons covered with a fold. Zipped inner pocket. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners.
  Bib pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140311**	164-170	96-104	84-92	20
M (A)	**L4140312**	170-176	96-104	84-92	20
M (B)	**L4140322**	170-176	104-112	92-100	20
L (A)	**L4140313**	176-182	96-104	84-92	20
L (B)	**L4140323**	176-182	104-112	92-100	20
L (C)	**L4140333**	176-182	112-120	100-108	20
XL (A)	**L4140314**	182-188	96-104	84-92	20
XL (B)	**L4140324**	182-188	104-112	92-100	20
XL (C)	**L4140334**	182-188	112-120	100-108	20
2XL (B)	**L4140325**	188-194	104-112	92-100	20
2XL (C)	**L4140335**	188-194	112-120	100-108	20
3XL (C)	**L4140336**	194-200	112-120	100-108	20

2 ANTISTATIC WELDING CLOTHES — SETS (JACKET, BIB PANTS)

• АНТИСТАТИЧЕСКАЯ СВАРОЧНАЯ ОДЕЖДА - КОМПЛЕКТЫ (КУРТКА И ПОЛУКОМБИНЕЗОН)
• SCHWEISSERKLEIDUNG ANTISTATISCHE - SETS (JACKE, LATZHOSE)

310 g/m²

99% COTTON

1% ANTISTATIC THREAD

EN ISO 11611:2015 A1+A2 class 1

EN ISO 11612:2015 A1+A2 B1 C1 E2 F1

EN 1149-5:2008

Special buckle construction to avoid self loosening



Kat. II
Cat. II CE

- MATERIAL: 99% cotton, 1% antistatic thread.
- Flame-retardant protective clothes designed for welding and related processes, resistant to hot agents and flame, with antistatic properties. Protect from ignition as a result of a short-term contact with flames (performance level A1+A2), molten iron spatter (performance level E2), convection heat (performance level B1), contact heat (performance level F1), thermal radiation (performance level C1) and prevent static discharge able to start ignition. Made from thick cotton textile with a fire-retardant and antistatic finish. Flame-retardant threads. Protection grade 1 (small splinters of melted metal). The clothes meet the requirements of the following standards: EN ISO 11611:2015, EN ISO 11612:2015, EN 1149-5:2008, EN ISO 13688:2013.
  Jacket: buttoned-up, buttons covered with a fold. Zipped inner pocket. Width adjustment at the jacket bottom with a rubber band. Cuffs with concealed snap fasteners.
  Bip pants: 4 pockets, including 1 inner zipped pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN ISO 11611:2015, EN ISO 11612:2015, EN 1149-5:2008, EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140411**	164-170	96-104	84-92	20
M (A)	**L4140412**	170-176	96-104	84-92	20
M (B)	**L4140422**	170-176	104-112	92-100	20
L (A)	**L4140413**	176-182	96-104	84-92	20
L (B)	**L4140423**	176-182	104-112	92-100	20
L (C)	**L4140433**	176-182	112-120	100-108	20
XL (A)	**L4140414**	182-188	96-104	84-92	20
XL (B)	**L4140424**	182-188	104-112	92-100	20
XL (C)	**L4140434**	182-188	112-120	100-108	20
2XL (B)	**L4140425**	188-194	104-112	92-100	20
2XL (C)	**L4140435**	188-194	112-120	100-108	20
3XL (C)	**L4140436**	194-200	112-120	100-108	20

1 ANTISTATIC CLOTHES – SETS (JACKET, BIB PANTS)

- АНТИСТАТИЧЕСКАЯ ОДЕЖДА – КОМПЛЕКТЫ (КУРТКА И ПОЛУКОМБИНЕЗОН)
- ANTISTATISCHE KLEIDUNG - SETS (JACKE, LATZHOSE)

243 g/m²

1% ANTISTATIC THREAD

EN 1149-5:2008

CERTYFIKAT
CIOP – PIB





Kat. II
Cat. II

- MATERIAL: 35% cotton, 64% polyester, 1% antistatic thread.
- Antistatic protective clothes able to dissipate and discharge static charges. Prevent electrostatic discharge able to start ignition. Made from a textile with antistatic finish. The clothes meet the requirements of the following standards: EN 1149-5:2008 and EN ISO 13688:2013.
  Jacket: Buttoned-up, buttons covered with a fold. Two buttoned-up pockets. Width adjustment at the jacket bottom with a rubber. Buttoned-up cuffs.
  Bib pants: 4 pockets, including 1 buttoned-up pocket. Additional crotch seam enforcement. Waist width adjustment with a rubber band. Adjustable braces with a fastener and rubber band.
- NORM: EN 1149-5:2008 i EN ISO 13688:2013

Size	Code	H (cm)	C (cm)	W (cm)	
S (A)	**L4140711**	164-170	96-104	84-92	20
M (A)	**L4140712**	170-176	96-104	84-92	20
M (B)	**L4140722**	170-176	104-112	92-100	20
L (A)	**L4140713**	176-182	96-104	84-92	20
L (B)	**L4140723**	176-182	104-112	92-100	20
L (C)	**L4140733**	176-182	112-120	100-108	20
XL (A)	**L4140714**	182-188	96-104	84-92	20
XL (B)	**L4140724**	182-188	104-112	92-100	20
XL (C)	**L4140734**	182-188	112-120	100-108	20
2XL (B)	**L4140725**	188-194	104-112	92-100	20
2XL (C)	**L4140735**	188-194	112-120	100-108	20
3XL (C)	**L4140736**	194-200	112-120	100-108	20

2 PROTECTIVE COVERALLS

- ФАРТУКИ ЗАЩИТНЫЕ - SCHUTZSCHÜRZEN

260 g/m²





Kat. I
Cat. I

- MATERIAL: 35% cotton, 65% polyester.
- 5 pockets, including 2 with a snap fastener: Key ring. Double seams. Pocket bottom strengthened with double textile layer, protecting from chafing. Adjustable, buttoned-up cuffs. ID insert.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4160101**	158-164	84-88	20
M	**L4160102**	164-170	92-96	20
L	**L4160103**	170-176	100-104	20
XL	**L4160104**	176-182	108-112	20
2XL	**L4160105**	182-188	116-120	20
3XL	**L4160106**	188-194	126-130	20

1 POLO SHIRTS

• ТЕНИСКИ • POLOHEMDEN

220 g/m²

100% COTTON

RING-SPUN





Decorative reinforcements



Kat. I Cat. I

- MATERIAL: 100% cotton.
- T-shirts with a collar and two buttons. Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and resistance to chafing, and ensures comfortable wearing. 220 g/m². Decorative reinforcements from checked textile on the sleeves, button placket and inside the collar increase product quality and extend its usable life.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4030901		L4030701		L4030601		L4030501		L4030301		L4030801		L4030401		158-164	84-88	40
M	L4030902		L4030702		L4030602		L4030502		L4030302		L4030802		L4030402		164-170	92-96	40
L	L4030903		L4030703		L4030603		L4030503		L4030303		L4030803		L4030403		170-176	100-104	40
XL	L4030904		L4030704		L4030604		L4030504		L4030304		L4030804		L4030404		176-182	108-112	40
2XL	L4030905		L4030705		L4030605		L4030505		L4030305		L4030805		L4030405		182-188	116-120	40
3XL	L4030906		L4030706		L4030606		L4030506		L4030306		L4030806		L4030406		188-194	126-130	40

2 POLO SHIRTS

• ТЕНИСКИ • POLOHEMDEN

190 g/m²

100% COTTON

RING-SPUN





Kat. I Cat. I

- MATERIAL: 100% cotton
- Shirts with collar fastened with 3 buttons. Ring-spun cotton of a high density, but simultaneously soft and smooth, which guarantees durability, abrasion-resistance and comfort.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4031301		L4031201		L4031101		L4031001		158-164	84-88	50
M	L4031302		L4031202		L4031102		L4031002		164-170	92-96	50
L	L4031303		L4031203		L4031103		L4031003		170-176	100-104	50
XL	L4031304		L4031204		L4031104		L4031004		176-182	108-112	50
2XL	L4031305		L4031205		L4031105		L4031005		182-188	116-120	50
3XL	L4031306		L4031206		L4031106		L4031006		188-194	126-130	50

1 T-SHIRTS

• ФУТБОЛКИ • T-SHIRTS

180 g/m²

100% COTTON

RING-SPUN







Kat. I Cat. I CE

- MATERIAL: 100% cotton
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and resistance to chafing, and ensures comfortable wearing. Bands on scruff and arms ensure additional reinforcement. Double seams increase usable life. Sufficiently high weight (180 g/m²) is perfect for prints.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4020601		L4020101		L4020201		L4020301		L4020501		L4020401		L4021901		L4021801		L4021701		158-164	84-88	80
M	L4020602		L4020102		L4020202		L4020302		L4020502		L4020402		L4021902		L4021802		L4021702		164-170	94-100	80
L	L4020603		L4020103		L4020203		L4020303		L4020503		L4020403		L4021903		L4021803		L4021703		170-176	100-106	80
XL	L4020604		L4020104		L4020204		L4020304		L4020504		L4020404		L4021904		L4021804		L4021704		176-182	106-112	80
2XL	L4020605		L4020105		L4020205		L4020305		L4020505		L4020405		L4021905		L4021805		L4021705		182-188	112-116	80
3XL	L4020606		L4020106		L4020206		L4020306		L4020506		L4020406		L4021906		L4021806		L4021706		188-194	116-122	80

1 LADIES' T-SHIRTS

• ФУТБОЛКИ ЖЕНСКИЕ • DAMEN T-SHIRTS

180 g/m²

100% COTTON

RING-SPUN





Kat. I Cat. I

- MATERIAL: 100% cotton.
- Ring-spun cotton, characterised with high density, combined with softness and smoothness, guarantees strength and resistance to chafing, and ensures comfortable wearing. Double seams increase usable life. Sufficiently high weight (180 g/m²) is perfect for prints.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4021101		L4021201		L4021301		L4021401		158-164	84-88	50
M	L4021102		L4021202		L4021302		L4021402		164-170	92-96	50
L	L4021103		L4021203		L4021303		L4021403		170-176	100-104	50
XL	L4021104		L4021204		L4021304		L4021404		170-176	110-116	50
2XL	L4021105		L4021205		L4021305		L4021405		176-182	122-128	50
3XL	L4021106		L4021206		L4021306		L4021406		176-182	134-140	50

2 FUNCTIONAL T-SHIRTS

• ФУТБОЛКИ ФУНКЦИОНАЛЬНЫЕ • FUNKTIONALE T-SHIRTS

120 g/m²





Mesh inserts under the arms ensure excelent ventilation





Reflective elements increasing visibility



Kat. I Cat. I

- MATERIAL: 100% polyester.
- Moisture is removed outside to ensure comfort and cool feeling during workout. The T-shirt is made from pleasant, flexible knitwear 120 g/m² which fits the body perfectly. Mesh inserts under the arms. Extra reflective components thanks to which the user is more visible also at night.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4021001		L4021501		L4021601		158-164	84-88	50
M	L4021002		L4021502		L4021602		164-170	92-96	50
L	L4021003		L4021503		L4021603		170-176	100-104	50
XL	L4021004		L4021504		L4021604		176-182	108-112	50
2XL	L4021005		L4021505		L4021605		182-188	116-120	50
3XL	L4021006		L4021506		L4021606		188-194	126-130	50

1 SLEEVELESS T-SHIRT

• МАЙКИ БЕЗ РУКАВОВ • ÆRMELLØSE SHIRTS

160 g/m²

100% COTTON

RING-SPUN





- MATERIAL: 100% cotton
- Ring-spun cotton of a high density, but simultaneously soft and smooth, which guarantees durability, abrasion-resistance and comfort.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4022201**		**L4022001**		**L4022101**		158-164	84-88	100
M	**L4022202**		**L4022002**		**L4022102**		164-170	92-96	100
L	**L4022203**		**L4022003**		**L4022103**		170-176	100-104	100
XL	**L4022204**		**L4022004**		**L4022104**		176-182	108-112	100
2XL	**L4022205**		**L4022005**		**L4022105**		182-188	116-120	100
3XL	**L4022206**		**L4022006**		**L4022106**		188-194	126-130	100

2 LONG-SLEEVE T-SHIRTS

• МАЙКИ С ДЛИННЫМ РУКАВОМ • LANGARM-SHIRTS

190 g/m²

100% COTTON

RING-SPUN





- MATERIAL: 100% cotton
- Ring-spun cotton of a high density, but simultaneously soft and smooth, which guarantees durability, abrasion-resistance and comfort. Elastic welt cuffs.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4022301**		**L4022401**		158-164	84-88	50
M	**L4022302**		**L4022402**		164-170	92-96	50
L	**L4022303**		**L4022403**		170-176	100-104	50
XL	**L4022304**		**L4022404**		176-182	108-112	50
2XL	**L4022305**		**L4022405**		182-188	116-120	50
3XL	**L4022306**		**L4022406**		188-194	126-130	50

1 CHECKED FLANNEL SHIRTS

• РУБАШКИ ФЛАНЕЛЕВЫЕ В КЛЕТКУ • FLANELLHEMDEN MIT KAROMUSTER

170 g/m²

100% COTTON



Kat. I Cat. I

- MATERIAL: 100% cotton 170 g/m².
- Buttoned-up. High-quality soft and smooth woven cotton ensures comfortable use. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4180301**	158-164	84-88	20
M	**L4180302**	164-170	92-96	20
L	**L4180303**	170-176	100-104	20
XL	**L4180304**	176-182	108-112	20
2XL	**L4180305**	182-188	116-120	20
3XL	**L4180306**	188-194	126-130	20

2 CHECKED FLANNEL SHIRTS

• РУБАШКИ ФЛАНЕЛЕВЫЕ В КЛЕТКУ • FLANELLHEMDEN MIT KAROMUSTER

170 g/m²

100% COTTON



Kat. I Cat. I

- MATERIAL: 100% cotton 170 g/m².
- Buttoned-up. High-quality soft and smooth woven cotton ensures comfortable use. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4180401**	158-164	84-88	20
M	**L4180402**	164-170	92-96	20
L	**L4180403**	170-176	100-104	20
XL	**L4180404**	176-182	108-112	20
2XL	**L4180405**	182-188	116-120	20
3XL	**L4180406**	188-194	126-130	20

3 CHECKED FLANNEL SHIRTS

• РУБАШКИ ФЛАНЕЛЕВЫЕ В КЛЕТКУ • FLANELLHEMDEN MIT KAROMUSTER

120 g/m²

100% COTTON



Kat. I Cat. I

- MATERIAL: 100% cotton 120 g/m².
- Buttoned-up. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKF2S**	164-170	84-88	48
M	**LPKF2M**	170-176	92-96	48
L	**LPKF2L**	176-182	100-104	48
XL	**LPKF2XL**	182-188	108-112	48
2XL	**LPKF22XL**	188-194	116-120	48

4 CHECKED FLANNEL SHIRTS

• РУБАШКИ ФЛАНЕЛЕВЫЕ В КЛЕТКУ • FLANELLHEMDEN MIT KAROMUSTER

120 g/m²

100% COTTON



Kat. I Cat. I

- MATERIAL: 100% cotton 120 g/m².
- Buttoned-up. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKF1S**	164-170	84-88	48
M	**LPKF1M**	170-176	92-96	48
L	**LPKF1L**	176-182	100-104	48
XL	**LPKF1XL**	182-188	108-112	48
2XL	**LPKF12XL**	188-194	116-120	48

1 CHECKED FLANNEL SHIRTS

• РУБАШКИ ФЛАНЕЛЕВЫЕ В КЛЕТКУ N • FLANELLHEMDEN MIT KAROMUSTER - BLAU

120 g/m²

100% COTTON



Kat. I Cat. I CE

- MATERIAL: 100% cotton 120 g/m².
- Buttoned-up. Single pocket.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKF3S**	164-170	84-88	48
M	**LPKF3M**	170-176	92-96	48
L	**LPKF3L**	176-182	100-104	48
XL	**LPKF3XL**	182-188	108-112	48
2XL	**LPKF32XL**	188-194	116-120	48

2 PADDED FLANNEL SHIRTS

• РУБАШКИ ФЛАНЕЛЕВЫЕ УТЕПЛЁННЫЕ • FLANELLHEMDEN WATTIERT

120 g/m² COATING

120 g/m² PADDING

100% COTTON





Quilted lining

Kat. I Cat. I CE

- MATERIAL: Coating: 100% cotton 120 g/m². Padding: 120 g/m². Lining: taffeta 50 g/m².
- Buttoned-up. 4 pockets, including 2 with button fastening. Buttoned-up cuffs.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4180201**	158-164	84-88	20
M	**L4180202**	164-170	92-96	20
L	**L4180203**	170-176	100-104	20
XL	**L4180204**	176-182	108-112	20
2XL	**L4180205**	182-188	116-120	20
3XL	**L4180206**	188-194	126-130	20



1 HOODED SWEATSHIRTS WITH ZIP

• КУРТКИ С КАПЮШОНОМ И ЗАСТЁЖКОЙ-МОЛНИЕЙ • SWEATSHIRTS MIT KAPUZEN UND REISSVERSCHLUSS

320 g/m²

RING-SPUN





Kat. I
Cat. I

- MATERIAL: 60% cotton, 35% polyester, 5% viscose, 320 g/m², anti-pilling and padded inside.
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and chafing resistance, and ensures comfortable use experience. Practical hood with cotton lining and adjustment by means of straps, as well as high collar, offer perfect protection from cold and wind. 2 pockets. Hoodie cuffs and bottom with an elastic band.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4011201**		**L4010801**		158-164	84-88	20
M	**L4011202**		**L4010802**		164-170	92-96	20
L	**L4011203**		**L4010803**		170-176	100-104	20
XL	**L4011204**		**L4010804**		176-182	108-112	20
2XL	**L4011205**		**L4010805**		182-188	116-120	20
3XL	**L4011206**		**L4010806**		188-194	126-130	20

2 HOODED SWEATSHIRTS

• КУРТКИ С КАПЮШОНОМ • SWEATSHIRTS MIT KAPUZEN

320 g/m²

RING-SPUN





Kat. I
Cat. I

- MATERIAL: 60% cotton, 35% polyester, 5% viscose, 320 g/m², anti-pilling and padded inside.
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and chafing resistance, and ensures comfortable use experience. A practical hood with a cotton lining and strap adjustments offers perfect protection from cold and wind. A large kangaroo front pocket. Cuffs and hoodie bottom ended with an elastic strip.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4010701**		**L4010401**		158-164	84-88	20
M	**L4010702**		**L4010402**		164-170	92-96	20
L	**L4010703**		**L4010403**		170-176	100-104	20
XL	**L4010704**		**L4010404**		176-182	108-112	20
2XL	**L4010705**		**L4010405**		182-188	116-120	20
3XL	**L4010706**		**L4010406**		188-194	126-130	20

1 SWEATSHIRTS

• КУРТКИ • SWEATSHIRTS

320 g/m²

RING-SPUN





Kat. I Cat. I

- MATERIAL: 60% cotton, 35% polyester, 5% viscose, 320 g/m², anti-pilling and padded inside.
- Ring-spun cotton, characterised by high density, combined with softness and smoothness, guarantees strength and chafing resistance, and ensures comfortable use experience. Cuffs and bottom with an elastic band.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4011701**		**L4011301**		158-164	84-88	20
M	**L4011702**		**L4011302**		164-170	92-96	20
L	**L4011703**		**L4011303**		170-176	100-104	20
XL	**L4011704**		**L4011304**		176-182	108-112	20
2XL	**L4011705**		**L4011305**		182-188	116-120	20
3XL	**L4011706**		**L4011306**		188-194	126-130	20

2 FLEECE JACKETS WITH REINFORCEMENTS

• КУРТКИ ФЛИСОВЫЕ С УПРОЧНЕНИЕМ • FLEECEJACKE MIT VERSTÄRKUNGEN

290 g/m²





Kat. I Cat. I

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling. Inserts: Oxford 600D 100% polyester 230 g/m².
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring. Sleeves, yoke and bottom strengthened with a abrasion resistant textile.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4011401**		**L4011501**		158-164	84-88	20
M	**L4011402**		**L4011502**		164-170	92-96	20
L	**L4011403**		**L4011503**		170-176	100-104	20
XL	**L4011404**		**L4011504**		176-182	108-112	20
2XL	**L4011405**		**L4011505**		182-188	116-120	20
3XL	**L4011406**		**L4011506**		188-194	126-130	20

1 FLEECE JACKETS WITH REINFORCEMENTS

• КУРТКИ ФЛИСОВЫЕ С УПРОЧНЕНИЕМ • FLEECEJACKEN MIT VERSTÄRKUNGEN

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling. Inserts: Oxford 600D 100% polyester 230 g/m².
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring. Sleeves, yoke and bottom strengthened with a abrasion resistant textile.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4010501**	158-164	84-88	20
M	**L4010502**	164-170	92-96	20
L	**L4010503**	170-176	100-104	20
XL	**L4010504**	176-182	108-112	20
2XL	**L4010505**	182-188	116-120	20
3XL	**L4010506**	188-194	126-130	20

2 FLEECE JACKETS

• КУРТКИ ФЛИСОВЫЕ • FLEECEJACKEN

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 3 zipped pockets. Zip. Wind-proof zips. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPBP1S**	158-164	84-88	20
M	**LPBP1M**	164-170	92-96	20
L	**LPBP1L**	170-176	100-104	20
XL	**LPBP1XL**	176-182	108-112	20
2XL	**LPBP12XL**	182-188	116-120	20
3XL	**LPBP13XL**	188-194	126-130	20

3 FLEECE JACKETS

• КУРТКИ ФЛИСОВЫЕ • FLEECEJACKEN

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4011601**	158-164	84-88	20
M	**L4011602**	164-170	92-96	20
L	**L4011603**	170-176	100-104	20
XL	**L4011604**	176-182	108-112	20
2XL	**L4011605**	182-188	116-120	20
3XL	**L4011606**	188-194	126-130	20



1 FLEECE JACKETS

• КУРТКИ ФЛИСОВЫЕ • FLEECEJACKEN

290 g/m²





- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 3 zipped pockets. Zip. Wind-proof zips. Zip cover. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**LPBP2S**		**L4010201**		**L4010101**		**L4011801**		158-164	84-88	20
M	**LPBP2M**		**L4010202**		**L4010102**		**L4011802**		164-170	92-96	20
L	**LPBP2L**		**L4010203**		**L4010103**		**L4011803**		170-176	100-104	20
XL	**LPBP2XL**		**L4010204**		**L4010104**		**L4011804**		176-182	108-112	20
2XL	**LPBP22XL**		**L4010205**		**L4010105**		**L4011805**		182-188	116-120	20
3XL	**LPBP23XL**		**L4010206**		**L4010106**		**L4011806**		188-194	126-130	20

2 FLEECE JACKETS WITH HALF ZIP

• КУРТКИ ФЛИСОВЫЕ С КОРОТКОЙ МОЛНИЕЙ • FLEECEPULLIS MIT KURZEM REISSVERSCHLUSS

180 g/m²







- MATERIAL: Fleece 100% polyester 180 g/m², short pile, brushed bilaterally and anti-pilling.
- Practical zipped pocket on the sleeve. Half zip. Wind-proof zips. Zip cover. Sleeves ended with an elastic cuff ensuring perfect fit.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPBP3S**	158-164	84-88	20
M	**LPBP3M**	164-170	92-96	20
L	**LPBP3L**	170-176	100-104	20
XL	**LPBP3XL**	176-182	108-112	20
2XL	**LPBP32XL**	182-188	116-120	20
3XL	**LPBP33XL**	188-194	126-130	20



1 LADIES' FLEECE JACKETS

• КУРТКИ ФЛИСОВЫЕ ЖЕНСКИЕ • DAMENFLEECEJACKEN

290 g/m²



Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 2 zipped pockets. Zip. Wind-proof zips. Zip cover.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4010301**	158-164	82-86	20
M	**L4010302**	164-170	88-92	20
L	**L4010303**	170-176	94-98	20
XL	**L4010304**	170-176	100-104	20
2XL	**L4010305**	176-182	106-110	20
3XL	**L4010306**	176-182	112-116	20

2 LADIES' FLEECE JACKETS

• КУРТКИ ФЛИСОВЫЕ ЖЕНСКИЕ • DAMENFLEECEJACKEN

290 g/m²





Kat. I Cat. I CE

- MATERIAL: Fleece 100% polyester 290 g/m², short pile, brushed bilaterally and anti-pilling.
- 2 zipped pockets. Zip. Wind-proof zips. Zip cover
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4010601**	158-164	82-86	20
M	**L4010602**	164-170	88-92	20
L	**L4010603**	170-176	94-98	20
XL	**L4010604**	170-176	100-104	20
2XL	**L4010605**	176-182	106-110	20
3XL	**L4010606**	176-182	112-116	20

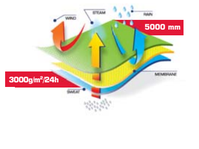


LAHTI PRO

1 JACKETS

• КУРТКИ • JACKEN

400 g/m²









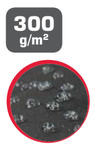
- MATERIAL: 100% polyester. Special 3-ply textile with TPU membrane, waterproof (5000 mm), breathable (3000g/m2/24 h), guaranteeing excellent wearing.
- 4 zipped pockets, including a practical one on the sleeve. Zip cover. Reflective components. Sleeves finished with cuffs with Velcro adjustment. Width adjustment at the jacket bottom, with a two-side drawstring with a stopper.
- NORM: EN ISO 13688

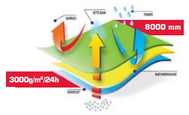
Size	Code	H (cm)	C (cm)	
S	**L4092001**	158-164	84-88	20
M	**L4092002**	164-170	92-96	20
L	**L4092003**	170-176	100-104	20
XL	**L4092004**	176-182	108-112	20
2XL	**L4092005**	182-188	116-120	20
3XL	**L4092006**	188-194	126-130	20

2 SOFT-SHELL JACKETS WITH HOOD

• КУРТКИ СОФТШЕЛЛ С КАПЮШОНОМ • SOFTSHELLJACKEN MIT KAPUZE

300 g/m²







Material with reflective print increasing the visibility after dark.







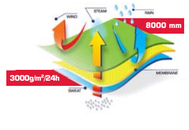
- MATERIAL: Shell: soft-shell fabric, 100% polyester with a weight of 300 g/m². Lining: microfleece with a weight of 160 g/m².
- Special 3-layer soft-shell fabric with a TPU membrane, waterproof (8000 mm), breathable (3000 g/m2/24h), ensuring high comfort of use. Fabric with a reflective print that increases visibility after dark. 5 pockets (3 outer with a zipper and 2 inner). Detachable, adjustable width hood. Zipper: Zipper cover: Sleeves with Velcro strap adjustment. Jacket bottom width adjustment with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4092301**	158-164	84-88	20
M	**L4092302**	164-170	92-96	20
L	**L4092303**	170-176	100-104	20
XL	**L4092304**	176-182	108-112	20
2XL	**L4092305**	182-188	116-120	20
3XL	**L4092306**	188-194	126-130	20

1 SOFT-SHELL HOODED JACKETS

• КУРТКИ СОФТШЕЛЛ С КАПЮШОНОМ • SOFTCOATINGJACKEN MIT KAPUZE

310 g/m²









- MATERIAL: Coating: soft-shell textile, 100% polyester 310 g/m². Lining: microfleece 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, waterproof (8000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. 5 pockets (3 outer with zip fasteners and 2 inner ones). Detachable hood with width adjustment. Zip fastener. Zip cover: Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

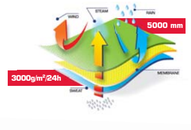
Size	Code	H (cm)	C (cm)	
S	**L4091601**	158-164	84-88	20
M	**L4091602**	164-170	92-96	20
L	**L4091603**	170-176	100-104	20
XL	**L4091604**	176-182	108-112	20
2XL	**L4091605**	182-188	116-120	20
3XL	**L4091606**	188-194	126-130	20

2 SOFT-SHELL HOODED JACKETS

• КУРТКИ СОФТШЕЛЛ С КАПЮШОНОМ • SOFTCOATINGJACKEN MIT KAPUZE

310 g/m²











- MATERIAL: Coating: soft-shell textile, 94% polyester, 6% elastane, 310 g/m². Lining: microfleece, 140 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 4 zipped pockets, including a practical one on the sleeve. Detachable, width-adjustable hood. Water-proof zips to increase rain protection. Zip. Zip cover: Reflective components. Sleeves ended with a cuff with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

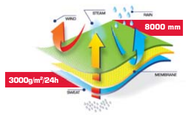
Size	Code	H (cm)	C (cm)	
S	**LPKS2S**	158-164	84-88	20
M	**LPKS2M**	164-170	92-96	20
L	**LPKS2L**	170-176	100-104	20
XL	**LPKS2XL**	176-182	108-112	20
2XL	**LPKS22XL**	182-188	116-120	20
3XL	**LPKS23XL**	188-194	126-130	20

1 SOFT-SHELL JACKETS

• КУРТКИ СОФТШЕЛЛ • SOFTCOATINGJACKEN

310 g/m²











- MATERIAL: Coating: soft-shell textile, 96% polyester, 4% elastane, 310 g/m². Lining: microfleece, 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (8000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 5 pockets (3 outer, zipped and 2 inner). Wind-proof zips. Zip. Zip cover: A reflective component. Sleeves with Velcro adjustment. Width adjustment at the jacket bottom, with a special drawstring.
- NORM: EN ISO 13688

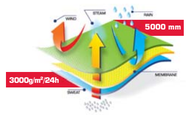
Size	Code	H (cm)	C (cm)	
S	**L4090101**	158-164	84-88	20
M	**L4090102**	164-170	92-96	20
L	**L4090103**	170-176	100-104	20
XL	**L4090104**	176-182	108-112	20
2XL	**L4090105**	182-188	116-120	20
3XL	**L4090106**	188-194	126-130	20

2 SOFT-SHELL JACKETS

• КУРТКИ СОФТШЕЛЛ • SOFTCOATINGJACKEN

310 g/m²











- MATERIAL: Coating: soft-shell textile, 94% polyester, 6% elastane, 310 g/m². Lining: microfleece, 150 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 6 pockets (3 outer, zipped and 3 inner, including one for a mobile). Water-proof zips to increase rain protection. Zip. Zip cover: Reflective components. Sleeves ended with a cuff with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKS1S**	158-164	84-88	20
M	**LPKS1M**	164-170	92-96	20
L	**LPKS1L**	170-176	100-104	20
XL	**LPKS1XL**	176-182	108-112	20
2XL	**LPKS12XL**	182-188	116-120	20
3XL	**LPKS13XL**	188-194	126-130	20

1 LADIES' SOFT-SHELL HOODED JACKETS

• КУРТКИ СОФТШЕЛЛ С КАПЮШОНОМ ЖЕНСКИЕ • DAMENSOFTCOATINGJACKEN MIT KAPUZE



- MATERIAL: Coating: soft-shell textile, 96% polyester, 4% elastane, 310 g/m² Lining: microfleece, 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 4 pockets (2 outer, zipped and 2 inner). Width-adjustable hood. Wind-proof zips. Zip. Zip cover. Reflective components. Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4090501**	158-164	82-86	20
M	**L4090502**	164-170	88-92	20
L	**L4090503**	170-176	94-98	20
XL	**L4090504**	170-176	100-104	20
2XL	**L4090505**	176-182	106-110	20
3XL	**L4090506**	176-182	112-116	20

2 LADIES' SOFT-SHELL JACKETS

• КУРТКИ СОФТШЕЛЛ ЖЕНСКИЕ • DAMENSOFTCOATINGJACKEN



- MATERIAL: Coating: soft-shell textile, 96% polyester, 4% elastane, 310 g/m². Lining: microfleece, 160 g/m².
- Special 3-layer soft-shell textile with TPU membrane, water-proof (5000 mm), breathable (3000g/m²/24h), ensuring high comfort of use. Elastane in the textile guarantees flexibility, softness and strength. 4 pockets (2 outer, zipped and 2 inner). Wind-proof zips. Zip. Zip cover. Reflective components. Sleeves with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4090401**	158-164	82-86	20
M	**L4090402**	164-170	88-92	20
L	**L4090403**	170-176	94-98	20
XL	**L4090404**	170-176	100-104	20
2XL	**L4090405**	176-182	106-110	20
3XL	**L4090406**	176-182	112-116	20

3 JACKETS

• KYPTKA • JACKEN







- MATERIAL:Shell: 100% polyester taffeta 210T coated with PA, Lining: 190T polyester.
- The lightweight, waterproof fabric ensures comfortable use. Watertight seams. 3 pockets (2 outer with a zipper and 1 inner). Windproof zippers. Zipper cover. Waterproof, adjustable hood, hidden in a Velcro collar. Cuffs finished with an elastic welt that provides protection against wind and water. Ventilation openings in the jacket's back improve air circulation. Jacket bottom width adjustment with a double-sided, lockable drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4092101**	158-164	84-88	20
M	**L4092102**	164-170	92-96	20
L	**L4092103**	170-176	100-104	20
XL	**L4092104**	176-182	108-112	20
2XL	**L4092105**	182-188	116-120	20
3XL	**L4092106**	188-194	126-130	20

1 WATERPROOF JACKETS

• КУРТКИ ПРОТИВОДОЖДЕВЫЕ • REGENJACKEN



- MATERIAL: 100% polyurethane
- The lightweight material used (100% Polyurethane) ensures comfortable use, increases durability and provides resistance to mechanical damage. Ventilation openings under the arms improve air circulation. Waterproof, adjustable hood, hidden in the zippered collar. Cuffs finished with an inner, elastic welt, which provides protection against wind and water. Jacket bottom width adjustment with a welt. Zipper with additional flap fastened with press studs. 2 outer pockets.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4091701**		**L4091801**		158-164	84-88	10
M	**L4091702**		**L4091802**		164-170	92-96	10
L	**L4091703**		**L4091803**		170-176	100-104	10
XL	**L4091704**		**L4091804**		176-182	108-112	10
2XL	**L4091705**		**L4091805**		182-188	116-120	10
3XL	**L4091706**		**L4091806**		188-194	126-130	10

2 WATERPROOF TROUSERS

• БРЮКИ ПРОТИВОДОЖДЕВЫЕ • REGENHOSEN



- MATERIAL: 100% polyurethane
- The lightweight material used (100% Polyurethane) ensures comfortable use, increases durability and provides resistance to mechanical damage. Waist adjustable with a welt. Pant leg width adjustable with a zipper. 2 side openings for access to the pocket.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4101001**		**L4101101**		158-164	74-78	10
M	**L4101002**		**L4101102**		164-170	82-86	10
L	**L4101003**		**L4101103**		170-176	98-102	10
XL	**L4101004**		**L4101104**		176-182	108-112	10
2XL	**L4101005**		**L4101105**		182-188	106-110	10
3XL	**L4101006**		**L4101106**		188-194	116-120	10

3 RAIN SETS (JACKETS, PANTS)

• КОМПЛЕКТЫ ПРОТИВОДОЖДЕВЫЕ (КУРТКИ, БРЮКИ) • REGENSETS (JACKEN, HOSEN)



- MATERIAL: PVC, polyester
- **Jackets:** Watertight seams. Ventilation openings under the arms and on the back improve air circulation. Waterproof, adjustable hood, hidden in the zippered collar. Cuffs finished with an inner, elastic welt, which provides protection against wind and water. Jacket bottom width adjustment with a welt. 2 outer pockets.
  Pants: Watertight seams. Waist adjustable with a welt. Pant leg width adjustable with. Snap fasteners 2 side openings for access to the pocket.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	W (cm)	
S	**L4140101**		**L4140201**		**L4140801**		158-164	84-88	74-78	20
M	**L4140102**		**L4140202**		**L4140802**		164-170	92-96	82-86	20
L	**L4140103**		**L4140203**		**L4140803**		170-176	100-104	90-94	20
XL	**L4140104**		**L4140204**		**L4140804**		176-182	108-112	98-102	20
2XL	**L4140105**		**L4140205**		**L4140805**		182-188	116-120	106-110	20
3XL	**L4140106**		**L4140206**		**L4140806**		188-194	126-130	116-120	20

1 RAINCOATS

• ПЛАЩИ-ДОЖДЕВИКИ • REGENMÄNTEL





Kat. I
Cat. I

- Material: PVC, polyester
- Waterproof seams. Ventilation openings under the arms and on the back improve air circulation. Waterproof, adjustable hood, hidden in the zippered collar. Cuffs finished with an inner, elastic welt, which provides protection against wind and water. Zipper with additional flap fastened with snap fasteners. 2 outer pockets
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4170201**		**L4170301**		**L4170401**		158-164	84-88	20
M	**L4170202**		**L4170302**		**L4170402**		164-170	92-96	20
L	**L4170203**		**L4170303**		**L4170403**		170-176	100-104	20
XL	**L4170204**		**L4170304**		**L4170404**		176-182	108-112	20
2XL	**L4170205**		**L4170305**		**L4170405**		182-188	116-120	20
3XL	**L4170206**		**L4170306**		**L4170406**		188-194	126-130	20

2 RAINCOATS

• ПЛАЩИ-ДОЖДЕВИКИ • REGENMÄNTEL





Kat. I
Cat. I

- MATERIAL: 70% PVC, 30% polyester.
- Sleeves with a cuff protecting from wind. Back and under arms ventilation. With a zip and snap fasteners. Two side pockets. Hood with straps. Water-proof textile. Unisex raincoat, both for men and women.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
M	**LPPP1M**	164-170	84-92	10
L	**LPPP1L**	170-176	92-100	10
XL	**LPPP1XL**	176-182	100-108	10
2XL	**LPPP12XL**	182-188	108-116	10

3 RAINCOAT

• ПЛАЩ-ДОЖДЕВИК • REGENMÄNTEL



Kat. I
Cat. I

- MATERIAL: 100% polietylen.
- Unisex raincoat, for women and men. In a ziplock bag. Hood with drawstring. Snap fastening.
- NORM: EN ISO 13688

Size	Code	
one size	**LPPP01U**	50/300

4 "PONCHO" RAINCOATS

• НАКИДКИ-ПОНЧО ПРОТИВОДОЖДЕВЫЕ • REGENMÄNTEL TYP „PONCHO"



Kat. I
Cat. I

- MATERIAL: PVC.
- Hood with straps. Snap fastening.
- NORM: EN ISO 13688

Size	Code	Colour	
one size	**LPPP11U**		50
	LPPP12U		50

LAHTI PRO



1 PADDED VESTS

• БЕЗРУКАВКИ УТЕПЛЁННЫЕ • STEPPWESTEN

70 g/m² POLYESTER COATING

310 g/m² SOFT-SHELL COATING

120 g/m² PADDING









Kat. I Cat. I CE

- MATERIAL: Coating: 100% polyester 70 g/m² and soft-shell textile, 96% polyester, 4% elastane, 310 g/m². Padding: 120g/m². Lining: taffeta 50 g/m² and microfleece 160 g/m².
- Inserts from 3-ply soft-shell textile with TPU membrane, waterproof (8000 mm), breathable (3000g/m²/24 h), guaranteeing excellent wearing experience. 3 zipped pockets (2 outer and 1 inner one). Zip fastener. Zip cover. Width adjustment at the vest bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4130701**		**L4131001**		**L4131101**		158-164	84-88	20
M	**L4130702**		**L4131002**		**L4131102**		164-170	92-96	20
L	**L4130703**		**L4131003**		**L4131103**		170-176	100-104	20
XL	**L4130704**		**L4131004**		**L4131104**		176-182	108-112	20
2XL	**L4130705**		**L4131005**		**L4131105**		182-188	116-120	20
3XL	**L4130706**		**L4131006**		**L4131106**		188-194	126-130	20

1 PADDED VESTS

• БЕЗРУКАВКИ УТЕПЛЁННЫЕ • WESTEN GEFÜTTERT

155 g/m² COATING

180 g/m² PADDING



- MATERIAL: Coating: 100% polyester, pognee type, 155 g/m². Padding: 180 g/m². Lining: taffeta, 50 g/m².
- Waterproof, PVC-coated textile, preventing water absorption. 8 pockets (7 outer, including 4 zipped ones, and 1 inner). Mobile phone pocket. Key ring. Zip. Reflective components. Width adjustment at the bottom with a special drawstring. Arm openings finished inside with cuffs protecting from wind.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPB01S**	158-164	84-88	20
M	**LPB01M**	164-170	92-96	20
L	**LPB01L**	170-176	100-104	20
XL	**LPB01XL**	176-182	108-112	20
2XL	**LPB012XL**	182-188	116-120	20
3XL	**LPB013XL**	188-194	126-130	20

2 LADIES' FLEECE VESTS

• ЖЕНСКИЕ ФЛИСОВЫЕ ЖИЛЕТЫ • DAMEN-FLEECE-WESTEN

290 g/m²



- MATERIAL: High quality fleece, 100% polyester, 290 g/m², short-cut, brushed on both sides and non pilling.
- 3 pockets, including one with a Velcro strap. Windproof zipper. Zipper cover.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4131201**	158-164	82-86	20
M	**L4131202**	164-170	88-92	20
L	**L4131203**	170-176	94-98	20
XL	**L4131204**	170-176	100-104	20
2XL	**L4131205**	176-182	106-110	20
3XL	**L4131206**	176-182	112-116	20

3 PADDED VEST

• БЕЗРУКАВКИ УТЕПЛЁННЫЕ • WESTEN GEFÜTTERT

160 g/m² COATING

160 g/m² PADDING



- MATERIAL: Coating: 100% polyester, pognee type, 160 g/m². Padding: 160 g/m². Lining: taffeta 50 g/m².
- PVC-covered textile, protecting against water infiltration. 3 zipped pockets. Zip fastener. Zip cover.
- NORM: EN ISO 13688

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4130801**		**L4130901**		158-164	84-88	20
M	**L4130802**		**L4130902**		164-170	92-96	20
L	**L4130803**		**L4130903**		170-176	100-104	20
XL	**L4130804**		**L4130904**		176-182	108-112	20
2XL	**L4130805**		**L4130905**		182-188	116-120	20
3XL	**L4130806**		**L4130906**		188-194	126-130	20

1 PADDED JACKETS WITH DETACHABLE SLEEVES

• КУРТКИ СОФТШЕЛЛ С ОТСТЕГИВАЮЩИМИСЯ РУКАВАМИ • ISOLIERTE JACKEN MIT ABNEHMBAREN ÄRMELN

275 g/m² COATING

160 g/m² PADDING

2 in 1





Reflective stripes



Abrasion-resistant fabric reinforcemen



Kat. I Cat. I

- MATERIAL: Shell: 100% pongee polyester 275 g/m². Insulation: 160 g/m². Lining: taffeta 50 g/m².
- Impregnated rip-stop fabric with a PVC coating, extremely durable and resistant to mechanical damage. 6 pockets, including 2 with zippers. Reflective strips that improve safety during work. Sleeves reinforced with an abrasion-resistant fabric (600D polyester). Removable sleeves. Double stitching. Insulated, adjustable hood, with zipper and Velcro fastening. Zipper with additional flap fastened with Velcro. Zipper cover. Sleeves finished with a welted cuff with Velcro strap. Jacket bottom width adjustment with an elastic band. Ventilation openings improve air circulation. Stylish and interesting design.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4092401**	158-164	84-88	10
M	**L4092402**	164-170	92-96	10
L	**L4092403**	170-176	100-104	10
XL	**L4092404**	176-182	108-112	10
2XL	**L4092405**	182-188	116-120	10
3XL	**L4092406**	188-194	126-130	10

2 PADDED TROUSERS

• БРЮКИ УТЕПЛЁННЫЕ ДО ПОЯСА • ISOLIERTE HOSE BIS ZUR TAILLE

275 g/m² COATING

160 g/m² PADDING





Reflective stripes

Adjustable leg width

Abrasion-resistant fabric reinforcemen



Knee pads for protective trousers and bibpants
- see **page 398**





Kat. I Cat. I

- MATERIAL: Shell: 100% pongee polyester 275 g/m². Insulation: 160 g/m². Lining: taffeta 50 g/m².
- Impregnated rip-stop fabric with a PVC coating, extremely durable and resistant to mechanical damage. 9 pockets, including 1 with a zipper. Reflective strips that improve safety during work. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). Triple-stitched seams. Adjustable waist with an elastic band. Key ring. 2 loops for a hammer. 2 tape measure holders. Belt loops. Bottom pant leg width adjustable with a zipper. Stylish and interesting design.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4101201**	158-164	74-78	10
M	**L4101202**	164-170	82-86	10
L	**L4101203**	170-176	90-94	10
XL	**L4101204**	176-182	98-102	10
2XL	**L4101205**	182-188	106-110	10
3XL	**L4101206**	188-194	116-120	10

3 PADDED BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ УТЕПЛЁННЫЕ • ISOLIERTE LATZHOSE

275 g/m² COATING

160 g/m² PADDING





Reflective stripes

Adjustable leg width



Special buckle construction to avoid self loosening

Abrasion-resistant fabric reinforcements

Knee pads for protective trousers and bibpants
- see **page 398**





Kat. I Cat. I

- MATERIAL: Shell: 100% pongee polyester 275 g/m². Insulation: 160 g/m². Lining: taffeta 50 g/m².
- Impregnated rip-stop fabric with a PVC coating, extremely durable and resistant to mechanical damage. 11 pockets, including 1 with a zipper. Reflective strips that improve safety during work. Knee protector pockets reinforced with an abrasion-resistant fabric (600D polyester). Triple-stitched seams. Adjustable waist with buttons and an elastic band. Key ring. 2 loops for a hammer. 2 tape measure holders. Adjustable-length braces. Bottom pant leg width adjustable with a zipper. Stylish and interesting design.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4110901**	158-164	74-78	10
M	**L4110902**	164-170	82-86	10
L	**L4110903**	170-176	90-94	10
XL	**L4110904**	176-182	98-102	10
2XL	**L4110905**	182-188	106-110	10
3XL	**L4110906**	188-194	116-120	10

1 PADDED JACKETS WITH DETACHABLE FLEECE

• КУРТКИ УТЕПЛЁННЫЕ С ОТСТЕГИВАЮЩИМСЯ ФЛИСОМ • GEFÜTTERTE JACKEN MIT ABNEHMBARER FLEECE

275 g/m² COATING

3in1





Kat. I Cat. I

- MATERIAL: Coating: 100% polyester, pognee type, 275 g/m². Lining: taffeta, 50 g/m². Detachable lining: taffeta, 280 g/m².
- Waterproof rip-stop textile, PVC-coated, strong and resistant to mechanical damage. 7 pockets: jacket — 3 outer, zipped, and 2 inner. fleece lining — 2 outer, zipped, and 1 inner. Hood hidden in a collar fastened with Velcro. Double hood adjustment (width and depth). Zipped ventilation openings with mesh. Watertight zips and seams. A zip with an extra flap with Velcros and snap fasteners. Zip cover. Width adjustment at the jacket and fleece lining bottom with a special drawstring. Reflective components. Sleeves with Velcro fastening.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKZ2S**	158-164	84-88	10
M	**LPKZ2M**	164-170	92-96	10
L	**LPKZ2L**	170-176	100-104	10
XL	**LPKZ2XL**	176-182	108-112	10
2XL	**LPKZ22XL**	182-188	116-120	10
3XL	**LPKZ23XL**	188-194	126-130	10

2 PADDED BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ УТЕПЛЁННЫЕ • LATZHOSEN GEFÜTTERT

275 g/m² COATING

160 g/m² PADDING





Adjustable leg width



Special buckle construction to avoid loosening



Kat. I Cat. I

- MATERIAL: Coating: 100% polyester, pongee type, 275 g/m². Padding: density 160 g/m². Lining: taffeta, 50 g/m².
- Waterproof rip-stop textile, PVC-covered, strong and resistant to mechanical damage. 7 pockets, including 1 zipped. Mobile phone pocket. Waist width adjustment with a rubber band. Zip with extra flap with Velcro. Reflective components. Adjustable braces. Leg width adjustment at the bottom with a zip.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4110801**	158-164	74-78	10
M	**L4110802**	164-170	82-86	10
L	**L4110803**	170-176	90-94	10
XL	**L4110804**	176-182	98-102	10
2XL	**L4110805**	182-188	106-110	10
3XL	**L4110806**	188-194	116-120	10

1 PADDED JACKETS

• КУРТКИ УТЕПЛЁННЫЕ • JACKEN GEFÜTTERT

200 g/m² COATING

200 g/m² PADDING







• MATERIAL: Coating: 100% polyester, 600D Oxford, 200 g/m². Padding: 200 g/m². Lining: fleece 260 g/m² and taffeta, 50 g/m².
• Strong, Waterproof PU textile. 10 pockets (9 outer, including 3 zipped and 1 inner). Mobile phone pocket. Padded adjustable hood, zip-fastened. Zip with extra flap with snap fasteners. Watertight zip. Reflectible elements. Sleeves ended with cuff with Velcro adjustment. Width adjustment at the jacket bottom with a special drawstring. Ventilation openings to increase air circulation.
• NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**LPKZ1S**	158-164	84-88	10
M	**LPKZ1M**	164-170	92-96	10
L	**LPKZ1L**	170-176	100-104	10
XL	**LPKZ1XL**	176-182	108-112	10
2XL	**LPKZ12XL**	182-188	116-120	10
3XL	**LPKZ13XL**	188-194	126-130	10

2 PADDED TROUSERS

• БРЮКИ УТЕПЛЁННЫЕ • HOSEN GEFÜTTERT

200 g/m² COATING

160 g/m² PADDING





Adjustable leg width



• MATERIAL: Coating: 100% polyester, 600D Oxford, 200 g/m². Padding: 160 g/m². Lining: taffeta 50 g/m².
• Strong waterproof, PU-covered textile, 7 pockets, including 4 with Velcro fastening. Waist width adjustment with a rubber band. Belt loops. Reflective components. Leg width adjustment at the bottom with a zip.
• NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4100701**	158-164	74-78	10
M	**L4100702**	164-170	82-86	10
L	**L4100703**	170-176	90-94	10
XL	**L4100704**	176-182	98-102	10
2XL	**L4100705**	182-188	106-110	10
3XL	**L4100706**	188-194	116-120	10

3 PADDED BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ УТЕПЛЁННЫЕ • LATZHOSEN GEFÜTTERT

200 g/m² COATING

160 g/m² PADDING





Adjustable leg width



Special buckle construction to avoid self loosening



• MATERIAL: Coating: 100% polyester, 600D Oxford, 200 g/m². Padding: 160 g/m². Lining: taffeta 50 g/m².
• Strong waterproof PU-covered textile, 6 pockets, including 3 with Velcro fastening. Mobile phone pocket. Waist width adjustment with a rubber band. Zip with extra flap with Velcro. Reflective components. Adjustable braces. Leg width adjustment at the bottom with a zip.
• NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)	
S	**L4110101**	158-164	74-78	10
M	**L4110102**	164-170	82-86	10
L	**L4110103**	170-176	90-94	10
XL	**L4110104**	176-182	98-102	10
2XL	**L4110105**	182-188	106-110	10
3XL	**L4110106**	188-194	116-120	10

1 QUILTED JACKETS

• СТЕГАНЫЕ КУРТКИ • STEPPJACKEN

200 g/m² COATING

450 g/pc PADDING



Kat. I Cat. I

- MATERIAL: Coating: 100% polyester rip-stop type, 200 g/m². Padding: 450 g/pc. Lining: taffeta, 60 g/m².
- Waterproof rip-stop textile, PVC-covered, extra strong and resistant to mechanical damage. 5 pockets (3 outer zipped and 2 inner, including 1 made from mesh). Pocket for a mobile phone/wallet. Padded hood with double adjustment (depth and width), attached by means of a zip and snap fasteners. Practical peak at the hood. Zip. Zip cover. Flexible inner cuffs, protecting from wind and cold. Width adjustment at the jacket bottom with a special drawstring.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4090801**	158-164	84-88	10
M	**L4090802**	164-170	92-96	10
L	**L4090803**	170-176	100-104	10
XL	**L4090804**	176-182	108-112	10
2XL	**L4090805**	182-188	116-120	10
3XL	**L4090806**	188-194	126-130	10

2 PADDED JACKETS

• КУРТКИ УТЕПЛЁННЫЕ • JACKEN GEFÜTTERT

140 g/m² COATING

200 g/m² PADDING



Kat. I Cat. I

- MATERIAL: Coating: 100% polyester, 300D Oxford, 140 g/m². Padding: 200 g/m². Lining: taffeta, 50 g/m².
- Waterproof PU-covered textile. 7 pockets (6 outer, including 1 zipped and 1 inner). Padded, adjustable hood, attached by means of a zip and snap fasteners. A zip with extra flap with snap fasteners. Snap fasteners covered with plastic protecting from water. Flexible inner cuffs, protecting from wind and cold.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4091501**	158-164	84-88	10
M	**L4091502**	164-170	92-96	10
L	**L4091503**	170-176	100-104	10
XL	**L4091504**	176-182	108-112	10
2XL	**L4091505**	182-188	116-120	10
3XL	**L4091506**	188-194	126-130	10

1 PADDED JACKETS WITH DETACHABLE SLEEVES

• КУРТКИ УТЕПЛЁННЫЕ С ОТСТЕГИВАЮЩИМИСЯ РУКАВАМИ • ISOLIERTE JACKEN MIT ABNEHMBAREN ÄRMELN

120 g/m²

180 g/m² PADDING







Kat. I Cat. I

- MATERIAL: Coating: 100% polyester, 200D Oxford, 120 g/m² polyuretane coated. Padding: 100% polyester, 180 g/m². Lining: 190T polyester taffeta, 54 g/m².
- Hood hidden in a collar fastened with Velcro. Sleeves ended with cuff with Velcro adjustment. Width adjustment at the jacket bottom with a welt. reflective elements. A zip with an extra flap with Velcro. Detachable sleeves. 5 pockets including one zipped (4 outer and 1 inner)
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	
S	**L4092701**	158-164	84-88	10
M	**L4092702**	164-170	92-96	10
L	**L4092703**	170-176	100-104	10
XL	**L4092704**	176-182	108-112	10
2XL	**L4092705**	182-188	116-120	10
3XL	**L4092706**	188-194	126-130	10



1 THERMOACTIVE SHIRTS

• ТЕРМОФУТБОЛКИ • THERMOAKTIVE UNTERHEMDEN



- MATERIAL: 72% polyamide, 21% polyester, 7% elastane.
- This honeycomb textile ensures perfect ventilation. Special weave absorbs moisture, removing it from the areas with increased perspiration. Cuffs guarantee perfect fit, ensuring comfort of wearing and protecting from cold. High- weave offers thermal protection.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)		
S/M	**L4120101**	158-175	86-96	64-86	x	40
L/XL	**L4120103**	175-185	98-108	76-98	x	40
2XL/3XL	**L4120105**	185-195	110-120	88-110	x	40

2 THERMOACTIVE PANTS

• ТЕРМОКАЛЬСОНЫ • THERMOAKTIVE LANGE UNTERHOSEN



- MATERIAL: 72% polyamide, 21% polyester, 7% elastane.
- This honeycomb textile ensures perfect ventilation. Special weave absorbs moisture, removing it from the areas with increased perspiration. Cuffs guarantee perfect fit, ensuring comfort of wearing and protecting from cold. High- weave offers thermal protection.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
S/M	**L4120201**	158-175	64-86	x	40
L/XL	**L4120203**	175-185	76-98	x	40
2XL/3XL	**L4120205**	185-195	88-110	x	40

3 THERMAL SHIRTS

• ФУТБОЛКИ УТЕПЛЁННЫЕ • THERMOHEMDEN



- MATERIAL: 35% cotton, 65% polyester.
- A combination of cotton (35%) and polyester (65%) ensures good breathing properties. Double-weave fabric ensures high heat insulation and the unique fabric brushing makes the product softer without compromising its durability. Sleeves ended with an elastic cuff.
- NORM: EN ISO 13688

Size	Code	H (cm)	C (cm)	W (cm)		
M	**LPKT1M**	170-175	99-104	84-89	x	72
L	**LPKT1L**	175-180	107-112	91-99	x	72
XL	**LPKT1XL**	180-185	114-119	102-107	x	72
XXL	**LPKT12XL**	185-190	122-127	110-115	x	72

4 THERMAL PANTS

• КАЛЬСОНЫ УТЕПЛЁННЫЕ • LANGE THERMOUNTERHOSEN



- MATERIAL: 35% cotton, 65% polyester.
- A combination of cotton (35%) and polyester (65%) ensures good breathing properties. Double-weave fabric ensures high heat insulation and the unique fabric brushing makes the product softer without compromising its durability. Legs ended with a cuff.
- NORM: EN ISO 13688

Size	Code	H (cm)	W (cm)		
M	**LPKA1M**	170-175	84-89	x	72
L	**LPKA1L**	170-175	91-99	x	72
XL	**LPKA1XL**	175-180	102-107	x	72
XXL	**LPKA12XL**	180-185	110-115	x	72

LAHTI PRO®

1 LONG THERMAL WORK SOCKS

• ТЕРМОНОСКИ РАБОЧИЕ, ДЛИННЫЕ • THERMOARBEITSSOCKEN LANG



- MATERIAL: 38% cotton, 38% polyester (Coolmax®), 20% polyester, 4% elastane.
- Coolmax fibres ensure high breathability and fast moisture evaporation. Areas with special weave provide extra warmth to the feet and shin. Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090639**	x	10/100
43-46	**L3090643**	x	10/100

2 THERMAL WORK SOCKS

• ТЕРМОНОСКИ РАБОЧИЕ • THERMOARBEITSSOCKEN



- MATERIAL: 60% cotton, 30% polyester (Coolmax ®), 5% polyamide, 5% elastane.
- The use of Coolmax fibres ensures high breathability and quick moisture evaporation. Flexible zones with a special weave keep the socks in place. Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090539**	x	10/100
43-46	**L3090543**	x	10/100

3 WORK SOCKS

• НОСКИ РАБОЧИЕ • ARBEITSSOCKEN



- MATERIAL: 80% cotton, 15% polyester, 3% polyamide, 2% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090439**	x	10/100
43-46	**L3090443**	x	10/100

4 THERMAL WORK SOCKS, EXTRA THICK

• НОСКИ РАБОЧИЕ УТЕПЛЁННЫЕ, ОЧЕНЬ ТОЛСТЫЕ
• GEFÜTTERTE ARBEITSSOCKEN DICK



- MATERIAL: 91% acrylic, 5% nylon, 3% polyester, 1% elastane.
- The use of acrylic weave offers great thermal properties and softness. Ended with a cuff.

Size	Code		
39-42	**L3090339**	x	10/80
43-46	**L3090343**	x	10/80

5 WORK SOCKS MEDIUM-THICK

• НОСКИ РАБОЧИЕ СРЕДНЕЙ ТОЛЩИНЫ
• ARBEITSSOCKEN MITTLERE DICKE



- MATERIAL: 50% cotton, 45% polyester, 5% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090239**	x	10/60
43-46	**L3090243**	x	10/60

6 THIN WORK SOCKS

• НОСКИ РАБОЧИЕ ТОНКИЕ • ARBEITSSOCKEN DÜNN



- MATERIAL: 75% cotton, 20% polyester, 5% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090139**	x	10/80
43-46	**L3090143**	x	10/80

7 WORK SOCKS

• НОСКИ РАБОЧИЕ • ARBEITSSOCKEN



- MATERIAL: 80% cotton, 17% polyester, 3% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090739**	x	10/80
43-46	**L3090743**	x	10/80

8 SHORT WORK SOCKS

• НОСКИ РАБОЧИЕ КОРОТКИЕ • ARBEITSSOCKEN KURZ



- MATERIAL: 80% cotton, 17% polyester, 3% elastane.
- Ended with a cuff. Fit the feet perfectly.

Size	Code		
39-42	**L3090839**	x	10/80
43-46	**L3090843**	x	10/80

1 HIGH VISIBILITY JACKETS, SLIM FIT, SLIM FIT

• СИГНАЛЬНЫЕ КУРТКИ, SLIM FIT • WARNJACKEN, SLIM FIT

270 g/m²

CLASS 1

CERTYFIKAT
CIOP – PIB

Reinforcements

Additional reflective elements



Kat. II
Cat. II

- MATERIAL: 35% cotton, 65% polyester, 270 g/m²; 60% cotton, 40% polyester, 270 g/m²
- Double-stitched reflective strips in accordance with EN ISO 20471. Additional reflective inserts that increase safety during work. 5 pockets, including 2 with zippers. Triple-stitched seams. Neck and pockets reinforced with an abrasion-resistant fabric (500D polyester). Bottom of the jacket and sleeves adjustable with Velcro straps. Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4041101**		**L4041201**		158-164	84-88	20
M	**L4041102**		**L4041202**		164-170	92-96	20
L	**L4041103**		**L4041203**		170-176	100-104	20
XL	**L4041104**		**L4041204**		176-182	108-112	20
2XL	**L4041105**		**L4041205**		182-188	116-120	20
3XL	**L4041106**		**L4041206**		188-194	126-130	20

1 HIGH VISIBILITY TROUSERS, SLIM FIT, SLIM FIT

• СИГНАЛЬНЫЕ БРЮКИ, SLIM FIT • WARNHOSE, SLIM FIT

270 g/m²

CLASS 1

CERTYFIKAT CIOP – PIB



Reinforcements

Reflective elements

Innovative waist widht regulation



Knee pads for protective trousers and bibpants
- see **page 398**



- MATERIAL: 35% cotton, 65% polyester, 270 g/m2; 60% cotton, 40% polyester, 270 g/m²
- Reflective strips in accordance with EN ISO 20471. 8 pockets, including 1 with a zipper. Pocket for mobile phone. Additional reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Loop for a hammer. Belt loops. Knee protector pockets reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4051101**		**L4051201**		158-164	74-78	20
M	**L4051102**		**L4051202**		164-170	82-86	20
L	**L4051103**		**L4051203**		170-176	90-94	20
XL	**L4051104**		**L4051204**		176-182	98-102	20
2XL	**L4051105**		**L4051205**		182-188	106-110	20
3XL	**L4051106**		**L4051206**		188-194	116-120	20

2 HIGH VISIBILITY BIB PANTS, SLIM FIT, SLIM FIT

• СИГНАЛЬНЫЕ ПОЛУКОМБИНЕЗОНЫ, SLIM FIT • WARNLATZHOSE, SLIM FIT

270 g/m²

CLASS 1

CERTYFIKAT CIOP – PIB



Reinforcements

Reflective elements

Innovative waist widht regulation



Special buckle construction to avoid loosening



Knee pads for protective trousers and bibpants
- see **page 398**



- MATERIAL: 35% cotton, 65% polyester, 270 g/m2; 60% cotton, 40% polyester, 270 g/m²
- Reflective strips in accordance with EN ISO 20471. 9 pockets, including 1 with a zipper. Pocket for mobile phone. Additional reflective inserts that increase safety during work. Triple-stitched seams. Additional reinforcement of seams in the crotch area. Innovative width adjustment in the waist by means of a special structure with an elastic band. Loop for a hammer. Adjustable-length braces. Knee protector pockets reinforced with an abrasion-resistant fabric (500D polyester). Slim fit. Stylish and interesting design. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4061001**		**L4061101**		158-164	74-78	20
M	**L4061002**		**L4061102**		164-170	82-86	20
L	**L4061003**		**L4061103**		170-176	90-94	20
XL	**L4061004**		**L4061104**		176-182	98-102	20
2XL	**L4061005**		**L4061105**		182-188	106-110	20
3XL	**L4061006**		**L4061106**		188-194	116-120	20

1 HIGH VISIBILITY PREMIUM JACKETS

• КУРТКИ СИГНАЛЬНЫЕ, ПРЕМИУМ • WARNSCHUTZHOSEN, PREMIUM

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2





Kat. II
Cat. II

CE

- MATERIAL: 60% cotton, 40% polyester, 270 g/m².
- Reflective stripes according to EN ISO 20471. High visibility grade: grade 2. Double seams. Zip. Adjustable cuffs with snap fasteners. Jacket bottom adjustable with snap fasteners. Snap fasteners coated with plastic protecting from water. 7 pockets, including 3 with Velcro fasteners. Mobile phone pocket. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4091201**		**L4091101**		158-164	84-88	20
M	**L4091202**		**L4091102**		164-170	92-96	20
L	**L4091203**		**L4091103**		170-176	100-104	20
XL	**L4091204**		**L4091104**		176-182	108-112	20
2XL	**L4091205**		**L4091105**		182-188	116-120	20
3XL	**L4091206**		**L4091106**		188-194	126-130	20

2 HIGH VISIBILITY PREMIUM TROUSERS

• БРЮКИ СИГНАЛЬНЫЕ, ПРЕМИУМ • WARNSCHUTZHOSE, PREMIUM

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2



Knee pads for protective trousers and bibpants
- see **page 398**





Kat. II
Cat. II

CE

- MATERIAL: 60% cotton, 40% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. High visibility grade: grade 2. Double seams. Waist adjustment with a drawstring. Belt loops. Snap fastener coated with plastic to protect from water. 10 pockets, including 4 with Velcro fasteners. Knee-pad pockets with Velcro fasteners. Hammer loop. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4100601**		**L4100501**		158-164	74-78	20
M	**L4100602**		**L4100502**		164-170	82-86	20
L	**L4100603**		**L4100503**		170-176	90-94	20
XL	**L4100604**		**L4100504**		176-182	98-102	20
2XL	**L4100605**		**L4100505**		182-188	106-110	20
3XL	**L4100606**		**L4100506**		188-194	116-120	20

3 HIGH VISIBILITY PREMIUM BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ СИГНАЛЬНЫЕ, ПРЕМИУМ • WARNSCHUTZLATZHOSEN, PREMIUM

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 3



Special buckle construction to avoid self loosening



Knee pads for protective trousers and bibpants
- see **page 398**





Kat. II
Cat. II

CE

- MATERIAL: 60% cotton/ 40% polyester 270 g/m².
- Reflective stripes to EN ISO 20471. Highest visibility grade: grade 3. Double seams. Waist adjustment with buttons and a drawstring. Snap fasteners coated with plastic to protect from water. Adjustable braces. 11 pockets, including 5 with Velcro fastener. Knee-pad pockets with Velcro. Hammer loop. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4110701**		**L4110601**		158-164	74-78	20
M	**L4110702**		**L4110602**		164-170	82-86	20
L	**L4110703**		**L4110603**		170-176	90-94	20
XL	**L4110704**		**L4110604**		176-182	98-102	20
2XL	**L4110705**		**L4110605**		182-188	106-110	20
3XL	**L4110706**		**L4110606**		188-194	116-120	20

1 HIGH VISIBILITY JACKETS

• КУРТКИ СИГНАЛЬНЫЕ • WARNSCHUTZJACKEN

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2





Kat. II
Cat. II

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes according to EN ISO 20471. High visibility grade: grade 2. Double seams. Ended with a collar. Buttoned-up. 5 pockets, including 2 with Velcro fasteners. Mobile phone pockets. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	L4091001		L4090901		158-164	84-88	20
M	L4091002		L4090902		164-170	92-96	20
L	L4091003		L4090903		170-176	100-104	20
XL	L4091004		L4090904		176-182	108-112	20
2XL	L4091005		L4090905		182-188	116-120	20
3XL	L4091006		L4090906		188-194	126-130	20

2 HIGH VISIBILITY TROUSERS

• БРЮКИ СИГНАЛЬНЫЕ • WARNSCHUTZHOSEN

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2





Kat. II
Cat. II

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. High visibility grade: grade 2. Double seams. Waist adjustment with a drawstring. Belt loops. Snap fastener coated with plastic to protect from water. 6 pockets, including 2 with Velcro fasteners. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4100401		L4100301		158-164	74-78	20
M	L4100402		L4100302		164-170	82-86	20
L	L4100403		L4100303		170-176	90-94	20
XL	L4100404		L4100304		176-182	98-102	20
2XL	L4100405		L4100305		182-188	106-110	20
3XL	L4100406		L4100306		188-194	116-120	20

3 HIGH VISIBILITY BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ СИГНАЛЬНЫЕ • WARNSCHUTZLATZHOSENN

CERTYFIKAT
CIOP – PIB

270 g/m²

CLASS 2



Specjalna konstrukcja klamry zapobiegająca jej zsuwaniu się





Kat. II
Cat. II

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. High visibility grade: grade 2. Double seams. Waist adjustment with buttons and a drawstring. Adjustable braces. 7 pockets, including 3 with Velcro fasteners. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4110501		L4110401		158-164	74-78	20
M	L4110502		L4110402		164-170	82-86	20
L	L4110503		L4110403		170-176	90-94	20
XL	L4110504		L4110404		176-182	98-102	20
2XL	L4110505		L4110405		182-188	106-110	20
3XL	L4110506		L4110406		188-194	116-120	20

1 HIGH VISIBILITY PADDED JACKETS

• КУРТКИ СИГНАЛЬНЫЕ УТЕПЛЁННЫЕ • WARNSCHUTZJACKEN GEFÜTTERT

CERTYFIKAT
CIOP – PIB

180 g/m² COATING
160 g/m² PADDING
2000 mm
CLASS 3





High grade quality waterproof material (2000 mm)



Kat. II
Cat. II

- MATERIAL: Coating: 100% polyester Oxford 300D, 180 g/m² PU-coated. Padding: 100% polyester, 160 g/m². Lining: 190T polyester, taffeta 54 g/m².
- Highest visibility grade: grade 3. Reflective stripes according to EN ISO 20471. Watertight seams. Snap fasteners coated with plastic protecting from water. Waterproof adjustable hood, concealed in a collar. Inner flexible cuffs to protect from wind and cold. Width adjustment at the jacket bottom with a two-sided drawstring with a stop. A zip with extra flap with snap-fasteners. 7 pockets (4 outer ones, including one for a mobile and 3 inner). Ventilation openings to improve air circulation.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4090701**		**L4090601**		158-164	84-88	10
M	**L4090702**		**L4090602**		164-170	92-96	10
L	**L4090703**		**L4090603**		170-176	100-104	10
XL	**L4090704**		**L4090604**		176-182	108-112	10
2XL	**L4090705**		**L4090605**		182-188	116-120	10
3XL	**L4090706**		**L4090606**		188-194	126-130	10

2 HIGH VISIBILITY PADDED TROUSERS

• БРЮКИ СИГНАЛЬНЫЕ УТЕПЛЁННЫЕ • WARNSCHUTZHOSEN GEFÜTTERT

CERTYFIKAT
CIOP – PIB

180 g/m² COATING
160 g/m² PADDING
2000 mm
CLASS 2





High grade quality waterproof material (2000 mm)



Zip regulated leg width



Kat. II
Cat. II

- MATERIAL: Coating: 100% polyester Oxford 300D, 180 g/m² PU-coated. Padding: 100% polyester, 160 g/m². Lining: 190T polyester, taffeta 54 g/m².
- High visibility grade: grade 2. Reflective stripes according to EN ISO 20471. Watertight seams. Waist width adjustment with a drawstring. Belt loops. A snap fastener coated with plastic to protect from water. 6 pockets.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4100201**		**L4100101**		158-164	74-78	10
M	**L4100202**		**L4100102**		164-170	82-86	10
L	**L4100203**		**L4100103**		170-176	90-94	10
XL	**L4100204**		**L4100104**		176-182	98-102	10
2XL	**L4100205**		**L4100105**		182-188	106-110	10
3XL	**L4100206**		**L4100106**		188-194	116-120	10

1 HIGH VISIBILITY QUILTED BIB PANTS

• ПОЛУКОМБИНЕЗОНЫ СИГНАЛЬНЫЕ УТЕПЛЁННЫЕ • WARNSCHUTZLATZHOSENN GEFÜTTERT

CERTYFIKAT
CIOP – PIB

180 g/m² COATING

160 g/m² PADDING

2000 mm

CLASS 3





Special buckle construction to avoid self loosening



High grade quality waterproof material (2000 mm)



Zip regulated leg width



Kat. II Cat. II CE

- MATERIAL: Coating: 100% polyester Oxford 300D, 180 g/m² PU-coated. Padding: 100% polyester, 160 g/m². Lining: 190T polyester, taffeta 54 g/m².
- Highest visibility grade: grade 3. Reflective stripes according to EN ISO 20471. Watertight seams. Waist width adjustment with buttons and a drawstring. Adjustable braces. 5 pockets
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4110301**		**L4110201**		158-164	74-78	10
M	**L4110302**		**L4110202**		164-170	82-86	10
L	**L4110303**		**L4110203**		170-176	90-94	10
XL	**L4110304**		**L4110204**		176-182	98-102	10
2XL	**L4110305**		**L4110205**		182-188	106-110	10
3XL	**L4110306**		**L4110206**		188-194	116-120	10

2 HIGH VISIBILITY PADDED JACKETS WITH DETACHABLE SLEEVES

• СИГНАЛЬНЫЕ КУРТКИ УТЕПЛЁННЫЕ С ОТСТЕГИВАЮЩИМИСЯ РУКАВАМИ • ISOLIERTE WARNJACKEN MIT ABNEHMBAREN ÄRMELN

CERTYFIKAT
CIOP – PIB

180 g/m² COATING

160 g/m² PADDING

2000 mm

CLASS 1





High grade quality waterproof material (2000 mm)



180 g/m² Kat. II Cat. II CE

- Material: Coating: 100% Oxford polyester 300D 180 g/m² with polyurethane (PU) coating. Padding: 100% polyester 160 g/m². Lining: 190T polyester taffeta 54 g/m².
- Reflective strips in accordance with EN ISO 20471. Watertight seams. Waterproof, adjustable hood, hidden in a Velcro collar. Cuffs finished with a welt with Velcro strap adjustment. Jacket bottom width adjustment with a welt. Zipper with additional flap fastened snaps. Removable sleeves. 5 pockets, including 1 with a zipper (4 outer and 1 inner).
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4092501**		**L4092601**		158-164	84-88	10
M	**L4092502**		**L4092602**		164-170	92-96	10
L	**L4092503**		**L4092603**		170-176	100-104	10
XL	**L4092504**		**L4092604**		176-182	108-112	10
2XL	**L4092505**		**L4092605**		182-188	116-120	10
3XL	**L4092506**		**L4092606**		188-194	126-130	10

1 HIGH VISIBILITY PADDED REVERSIBLE VESTS

• ДВУСТОРОННИЕ СИГНАЛЬНЫЕ ЖИЛЕТЫ УТЕПЛЁННЫЕ • DOPPELSEITIGE, ISOLIERTE WARNWESTEN

180 g/m² COATING

160 g/m² PADDING

2000 mm

CLASS 1

CERTYFIKAT CIOP – PIB



High grade quality waterproof material (2000 mm)



- Material: Coating: 100% Oxford polyester 300D 180 g/m² with polyurethane (PU) coating. Padding: 100% polyester 160 g/m². Lining: Fleece 100% polyester 220 g/m².
- Reflective strips in accordance with EN ISO 20471. Watertight seams. 6 pockets, including 5 with a zipper (3 outer and 2 inner). Vest bottom width adjustment with a special drawstring.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4131301**		**L4131401**		158-164	84-88	20
M	**L4131302**		**L4131402**		164-170	92-96	20
L	**L4131303**		**L4131403**		170-176	100-104	20
XL	**L4131304**		**L4131404**		176-182	108-112	20
2XL	**L4131305**		**L4131405**		182-188	116-120	20
3XL	**L4131306**		**L4131406**		188-194	126-130	20

2 HIGH VISIBILITY FLEECE JACKETS

• КУРТКИ ФЛИСОВЫЕ СИГНАЛЬНЫЕ • KURTKI FLISOWE SYGNALNE

300 g/m²

CLASS 2

CERTYFIKAT CIOP – PIB





- MATERIAL: High-quality fleece 100% polyester, 300 g/m², short pile, brushed bilaterally and anti-pilling.
- Reflective stripes EN ISO 20471 combined with a high-visibility fabric ensure high visibility grade: grade 2. 3 zipped pockets. Wind-tight zips. Width adjustment at the jacket bottom with a two-sided drawstring with a stop.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4010901**		**L4011001**		158-164	84-88	20
M	**L4010902**		**L4011002**		164-170	92-96	20
L	**L4010903**		**L4011003**		170-176	100-104	20
XL	**L4010904**		**L4011004**		176-182	108-112	20
2XL	**L4010905**		**L4011005**		182-188	116-120	20
3XL	**L4010906**		**L4011006**		188-194	126-130	20



1 HIGH VISIBILITY SOFT SHELL JACKETS WITH DETACHABLE SLEEVES

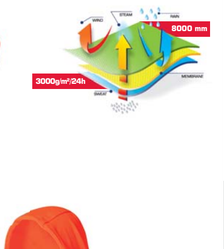
- ПРЕДУПРЕЖДАЮЩИЕ КУРТКИ СОФТШЕЛЛ С ОТСТЕГИВАЮЩИМИСЯ РУКАВАМИ
- WARNSCHUTZSOFTCOATINGJACKEN MIT ABNEHMBAREN ÄRMELN

CERTYFIKAT
CIOP – PIB

320 g/m²

CLASS 1

2 in 1



1 HIGH VISIBILITY RAIN JACKETS

• КУРТКИ ПРОТИВОДОЖДЕВЫЕ СИГНАЛЬНЫЕ • WARNSCHUTZREGENJACKEN

180 g/m²

2000 mm

CLASS 3

CERTYFIKAT CIOP – PIB



High grade quality waterproof material (2000 mm)



Kat. II
Cat. II

- MATERIAL: 100% polyester, Oxford 300D, polyurethane (PU)-coated.
- Reflective stripes according to EN ISO 20471 combined with high-visibility textile ensure the highest visibility grade: grade 3. Watertight seams. Waterproof adjustable hood, concealed in a collar, zipped. Sleeves ended with a Velcro-adjustable cuff. Width adjustment at the jacket bottom with a drawstring. 2 outer pockets with snap fasteners. Ventilation openings on the jacket front and back to increase air circulation.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4091301**		**L4091401**		158-164	84-88	20
M	**L4091302**		**L4091402**		164-170	92-96	20
L	**L4091303**		**L4091403**		170-176	100-104	20
XL	**L4091304**		**L4091404**		176-182	108-112	20
2XL	**L4091305**		**L4091405**		182-188	116-120	20
3XL	**L4091306**		**L4091406**		188-194	126-130	20

2 HIGH VISIBILITY RAIN TROUSERS

• БРЮКИ ПРОТИВОДОЖДЕВЫЕ СИГНАЛЬНЫЕ • WARNSCHUTZREGENHOSEN

180 g/m²

2000 mm

CLASS 2

CERTYFIKAT CIOP – PIB



Zip regulated leg width

High grade quality waterproof material (2000 mm)



Kat. II
Cat. II

- MATERIAL: 100% polyester, Oxford 300D, polyurethane (PU)-coated.
- Reflective stripes according to EN ISO 20471 combined with high-visibility fabric ensure high visibility grade: grade 2. Watertight seams. Width adjustment in the waist with a drawstring. Leg width adjustment with zip. 2 side openings enable to reach the pockets.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	**L4100801**		**L4100901**		158-164	74-78	20
M	**L4100802**		**L4100902**		164-170	82-86	20
L	**L4100803**		**L4100903**		170-176	90-94	20
XL	**L4100804**		**L4100904**		176-182	98-102	20
2XL	**L4100805**		**L4100905**		182-188	106-110	20
3XL	**L4100806**		**L4100906**		188-194	116-120	20

3 HIGH VISIBILITY RAINCOATS

• ПЛАЩИ-ДОЖДЕВИКИ СИГНАЛЬНЫЕ • WARNSCHUTZREGENMÄNTEL

180 g/m²

CLASS 3

2000 mm

CERTYFIKAT CIOP – PIB



High grade quality waterproof material (2000 mm)



Kat. II
Cat. II

- MATERIAL: 100% polyester, Oxford 300D, polyurethane (PU)-coated.
- Reflective stripes according to EN ISO 20471 combined with high-visibility fabric ensure the high visibility grade: grade 3. Watertight seams. Width adjustment in the waist with a drawstring. Zip regulated leg width. Two side openings enable to access pockets easily.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	H (cm)	C (cm)	Colour	
S	**L4170101**	158-164	84-88		20
M	**L4170102**	164-170	92-96		20
L	**L4170103**	170-176	100-104		20
XL	**L4170104**	176-182	108-112		20
2XL	**L4170105**	182-188	116-120		20
3XL	**L4170106**	188-194	126-130		20

1 HIGH VISIBILITY POLO SHIRTS

• ТЕННИСКИ СИГНАЛЬНЫЕ • WARNSCHUTZPOLOHEMDEN

CERTYFIKAT CIOP – PIB

140 g/m²

CLASS 2



Kat. II Cat. II CE

- MATERIAL: 100% Bird-eye polyester 140 g/m².
- Reflective stripes to EN ISO 20471 combined with the high-visibility fabric ensure high visibility grade: grade 2. Bird-eye textile improving air circulation. Finished with a collar. Buttoned-up. Pocket. Nape tape ensuring extra reinforcement.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4030201**		**L4030101**		158-164	84-88	50
M	**L4030202**		**L4030102**		164-170	92-96	50
L	**L4030203**		**L4030103**		170-176	100-104	50
XL	**L4030204**		**L4030104**		176-182	108-112	50
2XL	**L4030205**		**L4030105**		182-188	116-120	50
3XL	**L4030206**		**L4030106**		188-194	126-130	50

2 HIGH VISIBILITY T-SHIRTS

• ФУТБОЛКИ СИГНАЛЬНЫЕ • WARNSCHUTZ-T-SHIRTS

CERTYFIKAT CIOP – PIB

140 g/m²

CLASS 2



Kat. II Cat. II CE

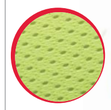
- MATERIAL: 100% Bird-eye polyester 140 g/m².
- Reflective stripes EN ISO 20471 combined with a high-visibility fabric ensure high visibility grade: grade 2. Bird-eye fabric to increase air circulation. Tape on the nape provides extra strengthening.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4020801**		**L4020701**		158-164	84-88	50
M	**L4020802**		**L4020702**		164-170	92-96	50
L	**L4020803**		**L4020703**		170-176	100-104	50
XL	**L4020804**		**L4020704**		176-182	108-112	50
2XL	**L4020805**		**L4020705**		182-188	116-120	50
3XL	**L4020806**		**L4020706**		188-194	126-130	50

3 MESH VESTS WITH REFLECTIVE STRIPES

• ЖИЛЕТЫ СЕТКА СО СВЕТООТРАЖАЮЩИМИ ПОЛОСАМИ • NETZWESTEN MIT REFLEXSTREIFEN

120 g/m²





- MATERIAL: 100% polyester 120 g/m².
- Velcro fasteners. Two reflective stripes. Mesh fabric structure ensures high breathability. Application: identification of people.

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**L4130501**		**L4130601**		158-164	86-90	100
M	**L4130502**		**L4130602**		164-170	92-96	100
L	**L4130503**		**L4130603**		170-176	100-104	100
XL	**L4130504**		**L4130604**		176-182	108-112	100
2XL	**L4130505**		**L4130605**		182-188	116-120	100
3XL	**L4130506**		**L4130606**		188-194	126-130	100

4 HIGH-VISIBILITY VESTS

• ЖИЛЕТЫ СИГНАЛЬНЫЕ • WARNSCHUTZWESTEN

120 g/m²



Kat. II Cat. II CE

- MATERIAL: 100% polyester 120 g/m².
- Velcro fasteners. Two reflective stripes.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	C (cm)	
S	**LPK01S**		**LPK02S**		158-164	84-88	100
M	**LPK01M**		**LPK02M**		164-170	92-96	100
L	**LPK01L**		**LPK02L**		170-176	100-104	100
XL	**LPK01XL**		**LPK02XL**		176-182	108-112	100
2XL	**LPK012XL**		**LPK022XL**		182-188	116-120	100
3XL	**LPK013XL**		**LPK023XL**		188-194	126-130	100

1 HIGH-VISIBILITY VESTS FOR CHILDREN

• ЖИЛЕТЫ СИГНАЛЬНЫЕ ДЕТСКИЕ • WARNSCHUTZWESTEN FÜR KINDER

120 g/m²





Kat. II
Cat. II

- MATERIAL: 100% polyester 120 g/m².
- Velcro fasteners. Two reflective stripes.
- NORM: EN 1150

Size/ Age category	Code	Colour	Code	Colour	H (cm)	C (cm)	
S/4-6 Years	L4130101		L4130201		120-134	75-85	100
M/7-9 Years	L4130102		L4130202		134-150	85-95	100
L/ 10-12 Years	L4130103		L4130203		150-165	95-105	100

2 HIGH-VISIBILITY SHORTS

• ШОРТЫ КОРОТКИЕ СИГНАЛЬНЫЕ • WARNHOSEN KURZ

270 g/m²

CLASS 1





Kat. II
Cat. II

- MATERIAL: 40% cotton, 60% polyester, 270 g/m².
- Reflective stripes to EN ISO 20471. Visibility grade: 1. Waist width adjustment with a drawstring. Double seams. Belt loops. Snap fastener covered with plastic to protect from water. 4 pockets, including 2 with Velcro fastening. ID insert.
- NORM: EN ISO 13688, EN ISO 20471

Size	Code	Colour	Code	Colour	H (cm)	W (cm)	
S	L4070101		L4070201		158-164	74-78	20
M	L4070102		L4070202		164-170	82-86	20
L	L4070103		L4070203		170-176	90-94	20
XL	L4070104		L4070204		176-182	98-102	20
2XL	L4070105		L4070205		182-188	106-110	20
3XL	L4070106		L4070206		188-194	116-120	20

3 ELASTIC REFLECTIVE BA

• ЭЛАСТИЧНАЯ СВЕТООТРАЖАЮЩАЯ ПОВЯЗКА • ELASTISCHE REFLEXWARNSTREIFEN



Kat. II
Cat. II

- MATERIAL: PVC
- Reflective film according to EN 13356:2001. High flexibility ensures perfect fit. Soft inner material ensures high comfort of use.
- NORM: EN 13356:2001

Dimensions [cm]	Code	
3 x 34	L9010100	200/1000



CAPS AND TUBE SCARFS MADE OF HIGH VISIBILITY FABRIC - PAGES 332, 334-335

4 TROUSERS BELTS

• РЕМНИ ДЛЯ БРЮК • HOSENGÜRTEL



130cm MAX

50% COTTON 50% POLYESTER

- MATERIAL: 50% cotton / 50% polyester
- Strong metal clamp with a quick and easy fastening system. 130 cm long, can be shortened. 3.7 cm wide. Durable material.

Code	Size (cm)	Colour	
L9020100	one size (max. length 130 cm)		50
L9020200	one size (max. length 130 cm)		50

LAHTI PRO®

1 PROTECTIVE COVERALLS

• КОМБИНЕЗОНЫ ЗАЩИТНЫЕ • SCHUTZOVERALLS

50 g/m²



Kat. I Cat. I CE

- MATERIAL: polypropylene non-woven fabric 50 g/m².
- **Application:**
  any dirty works, gardening, car repair, preliminary varnishing works, visits to plants, coveralls for visitors, building works, industrial coating, inspections of machines and devices, protection from dust not hazardous to health, protection of work and daily clothes, hobby.
  Properties/Features:
  - Rubber cuffs at the sleeves, legs and hood
  - Rubber at the waist, ensuring optimum fit of the coverall to the body

Size	Code	
M	**L4150202**	50
L	**L4150203**	50
XL	**L4150204**	50
2XL	**L4150205**	50
3XL	**L4150206**	50

2 TYVEK® 500 XPERT, CHF5 MODEL COVERALLS

• КОМБИНЕЗОНЫ ЗАЩИТНЫЕ TYVEK® 500 XPERT, МОДЕЛЬ CHF5
• SCHUTZOVERALLS TYVEK® CLASSIC XPERT, MODEL CHF5



Anti-chemical protective clothes — Category III

EN 1149-5

TYP 5*

TYP 6*

EN 14126

EN 1073-2

CE

- New protection standard for Type 5 and 6 coveralls. Colour: white. Durable but lightweight (coveralls weight < 180 g). Three-part hood with a rubber band, offering optimum fit for the head and face, even when the user moves. Wide gusset in the crotch offers unrestricted movements. Zip with a lock, made from Tyvek®. Large slider, easy to grasp. Flap covering the zip to improve protection. Sleeves which do not fall down even when you raise your hands. Elastic cuffs on sleeves and legs Glued-in rubber band at the waist. Tyvek® Classic Xpert coveralls are anti-chemical protective clothes, category III, Type 5-B i 6-B. It is a barrier for biological agents (only the textile) to EN 14126, and also protects from radioactive solids to EN 1073-2. Antistatic finish to EN 1149, both sides. Outer sewn seams. Very small infiltration of solids inside the coveralls thanks to the optimised clothes' design. Sample coveralls application areas: chemical industry, vehicle coating, pharmaceutical industry, non-automatic laminate production, e.g. the production of boats or wind turbine components.

TYVEK® is a registered trade mark of DuPont or its subsidiaries.
* - DuPont pictogram
Typ 5 - Protection from solids
Typ 6 - Protection from sprayed liquid
EN 1149-1:2006 oraz EN 1149-5:2008 -Anti-static. properties provided the appropriate grounding is ensured. and the relative humidity is above 25%
EN 1073-2:2002 - Protection from radioactive solids

Size	Code	
S	**DU001S**	100
M	**DU001M**	100
L	**DU001L**	100
XL	**DU001XL**	100
2XL	**DU0012XL**	100
3XL	**DU0013XL**	100

1 PROSHIELD® BASIC, CHF5 MODEL PROTECTIVE COVERALLS

• КОМБИНЕЗОНЫ ЗАЩИТНЫЕ PROSHIELD® BASIC, МОДЕЛЬ CHF5
• SCHUTZOVERALLS PROSHIELD® BASIC, MODELL CHF5



Anti-chemical protective clothes — Category III

EN 1149-5

TYP 5

TYP 6

EN 1073-2

- Limited protection from solids and yet high comfort of work. Fabric: SMS. Coveralls with a hood with a rubber band. Flexible cuffs on the sleeves and legs. Rubber band at the waist (sewn in). A flap covering the zip. Antistatic finish. (EN 1149-5) inside. Protection from radioactive contamination (EN1073-2 Class 1). Designed to protect from dirt during light works, e.g. in workshops and other industries.

* - DuPont pictogram
Typ 5 - Protection from solids
Typ 6 - Protection from sprayed liquid
EN 1149-5:2008 - Anti-static. properties provided the appropriate grounding is ensured. and the relative humidity is above 25%
EN 1073-2:2002 - Protection from. radioactive solids

Size	Code	
S	**DU012S**	50
M	**DU012M**	50
L	**DU012L**	50
XL	**DU012XL**	50
2XL	**DU0122XL**	50
3XL	**DU0123XL**	50

2 PROTECTIVE COVERALLS

• КОМБИНЕЗОНЫ ЗАЩИТНЫЕ
• SCHUTZOVERALLS

60 g/m²



Kat. III
Cat. III

- MATERIAL: multilayer non-woven fabric (polypropylene/polyethylene/polypropylene) 60 g/m²
- **Application:** removal of impurities (e.g. asbestos), decontamination work, work with solid and liquid dangerous substances (not under pressure), maintenance, maintenance and repair of industrial lines, inspections of machines and equipment, visiting facilities, construction works, performing industrial coatings, cleaning ducts, work in agriculture and the food industry
- **Features/properties:** - elastic in the waist for optimal coverall fit - cuffs on sleeves, legs and hood - relaxed cut with reinforcement in the crotch - ergonomic, three-part hood - zipper cover extending to the chin - internal overlock seams (green) assuring greater tightness - thumb loops

Size	Code	
L	**46194**	50
XL	**46195**	50
2XL	**46196**	50
3XL	**46197**	50

3 PROTECTIVE COVERALLS

• КОМБИНЕЗОНЫ ЗАЩИТНЫ
• SCHUTZOVERALLS



Kat. I
Cat. I

- MATERIAL: polypropylene non-woven fabric 50 g/m²
- **Use:** dirty work, gardening, car repairs, preliminary work in varnishing, visiting industrial work areas, coveralls for guests, construction work, applying industrial coatings, inspections of machinery and equipment, protection against non-hazardous dust, protection of work and everyday clothing, hobby.
- **Features/properties:** - cuffs on sleeves, legs and hood - ergonomic, three-part hood - elastic in the waist for optimal coverall fit - zipper cover extending to the chin - external overlock seams assuring greater tightness - relaxed cut with reinforcement in the crotch

Size	Code	
M	**46188**	100
L	**46189**	100
XL	**46190**	100
2XL	**46191**	100
3XL	**46192**	100

HEAD AND HEARING PROTECTION



caps
balaclavas
ear guards
ear plugs
helmets
scarfs

1 PADDED CAPS WITH FLAPS

• ШАПКИ-УШАНКИ УТЕПЛЁННЫЕ • OHRENMÜTZEN GEFÜTTERT

215 g/m² COATING
100 g/m² PADDING



x12 Kat. I Cat. I CE

- Coating: 100% polyester, 215 g/m². Lining: 100% polyester, 120 g/m². Padding: faux sheepskin 800 g/m². Filling: 100% polyester, 100 g/m². Waterproofed. PVC-coated textile.
- Flaps fastened up with a buckle. Cap padding with high-quality faux sheepskin. Extra ear protection adjustable with a button.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1020100		8
one size (57-61)	L1020200		8
one size (57-61)	L1020300		8

2 PADDED CAP WITH FLAPS

• ШАПКА-УШАНКА УТЕПЛЁННАЯ • OHRENMÜTZE GEFÜTTERT

175 g/m² COATING
120 g/m² PADDING
100% COTTON



x12 Kat. I Cat. I CE

- MATERIAL: Coating: 100% cotton, 175 g/m². Lining: 100% polyester, 120 g/m². Padding: faux sheepskin 800 g/m². Filling: 100% polyester, 120 g/m².
- Double layer construction ensures good termal insulation form cold.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
60	L1915160		8

3 ACRYLIC CAP WITH PADDING

• ШАПКА АКРИЛОВАЯ УТЕПЛЁННАЯ
• ACRYLMÜTZEN MIT FÜTTERUNG

420 g/m²



Kat. I Cat. I

- MATERIAL: Coating: 100% acrylic. Padding: 160 g/m².
- Two-layer padding inside ensures very good thermal insulation from cold.

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L102060S		12/96

4 ACRYLIC CAPS WITH PADDING

• ШАПКИ АКРИЛОВЫЕ УТЕПЛЁННЫЕ
• ACRYLMÜTZEN MIT FÜTTERUNG

320 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: Coating: 100% acrylic. Padding: 160 g/m².
- Two-layer padding inside ensures very good thermal insulation from cold. Length adjustment thanks to folding out.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1934100		8
one size (57-61)	L1937100		8
one size (57-61)	L1938100		8

5 ACRYLIC CAP

• ШАПКА АКРИЛОВАЯ • ACRYLMÜTZE

320 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: 100% acrylic
- Adjustable length thanks to folding out. Two-layer structure ensures good thermal insulation.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1922100		8

LAHTI PRO

1 ACRYLIC BALACLAVA

• БАЛАКЛАВА АКРИЛОВАЯ • ACRYLSTURMHAUBE

280 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: 100% acrylic.
- Balaclava with two holes. Two-layer structure ensures good thermal insulation.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1020500	■	8

2 ACRYLIC BALACLAVA

• БАЛАКЛАВА АКРИЛОВАЯ • ACRYLIC BALACLAVA

340 g/m²



x12 Kat. I Cat. I CE

- MATERIAL: 100% acrylic.
- Balaclava with one hole. Two-layer structure ensures good thermal insulation.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1020400	■	8



1 BASEBALL CAP

• ШАПКА С КОЗЫРЬКОМ • SCHIRMMÜTZEN

260 g/m²

100% COTTON



x12 | Kat. I Cat. I | CE

- MATERIAL: 100% cotton 260 g/m².
- Adjustable with a metal buckle. Reflective components. Metal-finished ventilation openings to improve air circulation. Stiffened peak and cap front ensure unchanging appearance for long usable life.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1010300		8



2 BASEBALL CAPS

• ШАПКИ С КОЗЫРЬКОМ • SCHIRMMÜTZEN

290 g/m²

100% COTTON



x12 | Kat. I Cat. I | CE

- MATERIAL: 100% cotton 290 g/m².
- Velcro adjustment. Ventilation openings to improve air circulation. Stiffened peak and cap front ensure unchanging appearance for long usable life.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1811300		8
one size (57-61)	L1812300		8
one size (57-61)	L1813300		8
one size (57-61)	L1814300		8
one size (57-61)	L1815300		8
one size (57-61)	L1816300		8

3 BASEBALL CAPS

• ШАПКИ С КОЗЫРЬКОМ • SCHIRMMÜTZEN

290 g/m²



x12 | Kat. I Cat. I | CE

- MATERIAL: 60% cotton, 40% polyester, density 290 g/m².
- Velcro adjustment. Reflective components. Ventilation openings to improve air circulation. Stiffened peak and cap front ensure unchanged appearance for long usable life.
- NORM: EN ISO 13688

Size (head perimeter) (cm)	Code	Colour	
one size (57-61)	L1010100		8
one size (57-61)	L1010200		8

1 ALL-PURPOSE TUBE SCARVES

• ПЛАТКИ МНОГОФУНКЦИОНАЛЬНЫЕ • MULTIFUNKTIONSTÜCHER

128 g/m²



- MATERIAL: 100% microfibre polyester, breathable, 128 g/m2.
- Seamless structure. Reflective stripes improve safety of use. Flexibility. Protection from wind, sunshine, sand, cold or dust. Perfect for active people, doing summer and winter sports or working outdoors.

Size	Code	Colour		
one size	L1030100		x	50/200
one size	L1030200		x	50/200
one size	L1030300		x	50/200

3 ALL-PURPOSE FLEECE TUBE SCARF

• СНУД (ШАРФ-ТРУБА) МНОГОФУНКЦИОНАЛЬНЫЙ ФЛИСОВЫЙ
• MULTIFUNKTIONSSCHLAUCHSCHAL AUS FLEECE

160 g/m²



- MATERIAL: Fabric: high-quality fleece 100% polyester, 160 g/m², short-pile, brushed bilaterally and anti-piling.
- Two-layer design provides very good insulation from cold and the ability to use on two sides. Width adjustment with a special drawstring ensures perfect fit and user comfort. Excellent protection from frost, cold, wind or dust. Perfect for active people, doing summer and winter sports or working outdoors.

Size	Code	Colour	
one size	L1030700		50/200

2 ALL-PURPOSE TUBE SCARVES WITH FLEECE

• ПЛАТКИ МНОГОФУНКЦИОНАЛЬНЫЕ С ФЛИСОМ
• MULTIFUNKTIONSTÜCHER MIT FLEECE

220 g/m² FLEECE

128 g/m² MICROFIBRE



- MATERIAL: 100% polyester mikrofibre/ fleece, breathable, 128 g/m² (mikrofibre), 220 g/m² (fleece).
- Reflective stripes improve safety of use. Seamless structure of the microfibre part. Flexibility. Excellent protection from frost, cold, wind or dust. Perfect for active people, doing summer and winter sports or working outdoors.

Size	Code	Colour	
one size	L1030400		50/200
one size	L1030600		50/200

1 INDUSTRIAL HELMET FOR WORK AT HEIGHT

- ПРОМЫШЛЕННЫЙ ЗАЩИТНЫЙ ШЛЕМ ДЛЯ РАБОТЫ НА ВЫСОТЕ
- INDUSTRIEHELM FÜR HÖHENARBEITEN







Kat. III
Cat. III

- MATERIAL: ABS
- Protects from mechanical injuries and low voltage up to 1000 V A.C. or 1500 V D.C. Suitable for use in temperatures ranging from -30°C to +50°C. Practical 3-point chin strap. A short peak ensures excellent visibility. Size adjusted with a knob. Six-strap head structure ensures stable fitting of the helmet on the head.
- NORM: EN 397, EN 50365 Grade 0

Size (cm)	Code	Colour	
52-63	**L1040402**		20

2 INDUSTRIAL HELMETS

- ШЛЕМЫ ПРОМЫШЛЕННЫЕ
- INDUSTRIEHELME





Face shields suitable for protective helmet LAHTI PRO
- see page 347



Noise-protection earmuffs suitable for protective helmet LAHTI PRO
- see page 338



Kat. II
Cat. II

- SHELL MATERIAL: ABS
- Protects against mechanical injuries. Suitable for use in temperatures ranging from -10 °C to +50 °C. Functional four-point chinstrap. Vents in the upper part of the shell assure optimum airflow. Size adjustment by means of a knob. Six-arm suspension guarantees stable fitting of the helmet on the head. Universal openings on the sides for mounting accessories. For use with LAHTI PRO ear protectors with the SKU: L1700200 and face shields: L1520400, L1520500
- NORM: EN 397

Size (cm)	Code	Colour	
52-64	**L1040501**		24
	L1040502		24
	L1040503		24
	L1040504		24
	L1040505		24
	L1040506		24

1 INDUSTRIAL HELMETS

• ШЛЕМЫ ПРОМЫШЛЕННЫЕ • INDUSTRIESCHUTZHELME

CERTYFIKAT
CIOP – PIB





Kat. III
Cat. III

- MATERIAL: HDPE
- Protect from mechanical injuries and short-term contact with electric conductors with the current value up to 440 V (Cat. III). Suitable for use in temperatures ranging from -20°C to +50°C. The harness has four bearing straps made from textile tapes and a main strap in the form of polyethylene pressure moulding. They have a non-woven sweatband and chin strap from textile tape. Groove protecting from dripping water. Universal openings on the sides. Application: building works, industry.
- NORM: EN 397

Size (cm)	Code	Colour	
53-59	L1040201		20
	L1040202		20
	L1040203		20
	L1040204		20
	L1040205		20
	L1040206		20

2 INDUSTRIAL HELMETS

• ШЛЕМЫ ПРОМЫШЛЕННЫЕ • INDUSTRIESCHUTZHELME





Face shields suitable for protective helmet LAHTI PRO
- see page 347

Noise-protection earmuffs suitable for protective helmet LAHTI PRO
- see page 338

Kat. II
Cat. II

- MATERIAL: HDPE
- Protect from mechanical injuries. Suitable for use in temperatures from -10°C to +50°C. Practical chin strap. Six-band harness ensures stable helmet placement on the head. Groove protecting from dripping water. Universal openings on the sides to attach accessories. Application: building works, industry. Compatible with noise-protection earmuffs LAHTI PRO, code: L1700200.
- NORM: EN 397

Size (cm)	Code	Colour	
53-64	L1040101		40
	L1040102		40
	L1040103		40
	L1040104		40
	L1040105		40
	L1040106		40



1 NOISE-PROTECTION EARMUFFS ATTACHED TO THE INDUSTRIAL PROTECTIVE LAHTI PRO HELMET

• НАУШНИКИ ПРОТИВОШУМНЫЕ ДЛЯ ПРОМЫШЛЕННОГО ЗАЩИТНОГО ШЛЕМА
• GEHÖRSCHUTZ FÜR DIE BEFESTIGUNG AM INDUSTRIESCHUTZHELM LAHTI PRO



L10401, L10405

- MATERIAL: ABS
- Sound insulation: SNR: 26dB, H: 27dB, M: 26dB, L: 18dB. Thick and soft earmuff cushions ensure comfort during long-term use. Smooth earmuff height adjustment guarantees perfect fit. Deflecting and rotary earpieces enable work without earmuffs installed, without the need to detach them from the helmet. Compatible with industrial LAHTI PRO helmets, codes: L10401, L10405.
- NORM: EN 352-3

Code		
L1700200	x	10/60

2 NOISE-PROTECTION EARMUFFS

• НАУШНИКИ ПРОТИВОШУМНЫЕ
• GEHÖRSCHUTZ



- MATERIAL: ABS
- Sound insulation: SNR: 29dB, H: 32dB, M: 27dB, L: 19dB. Smooth earmuff height adjustment guarantees perfect fit to the head. Thick and soft earmuff cushions ensure comfort during long-term use.
- NORM: EN 352-1

Code		
46032	x	10/60

3 NOISE-PROTECTION EARMUFFS

• НАУШНИКИ ПРОТИВОШУМНЫЕ • GEHÖRSCHUTZ



Smooth adjustment of the earmuffs assures perfect fit to the head

- MATERIAL: ABS
- Sound insulation: SNR: 27dB, H: 29dB, M: 25dB, L: 19dB. A soft pad on a bow ensures excellent wearing experience. Smooth earmuff adjustment ensures perfect fit to the head.
- NORM: EN 352-1

Code		
L1700100	x	10/60

4 FOAM EAR PLUGS

• БЕРУШИ ПЕННЫЕ • GEHÖRSCHUTZSTÖPSEL AUS SCHAUMSTOFF



L171010K (5 pairs)

L171010B (100 pairs)

L171010D (200 pairs)

- MATERIAL: Made from slow-expandable, soft and elastic polyurethane foam.
- Sound insulation: SNR: 34dB, H: 34dB, M: 31dB, L: 29dB. Hearing protection from excessive noise: excellent insulation of high-frequency sounds. Perfect fit in the hearing duct thanks to the self-forming material. Even pressure distribution on the hearing duct, ensuring high comfort of use. Smooth and dirt-proof surface, preventing accumulation of dirt. Disposable product.
- NORM: EN 352-2

Code	Quantity per package	Package	
L171010K	5 pairs	blister	40/800
L171010B	100 pairs	box	20
L171010D	200 pairs	dispenser	20

5 FOAM EAR PLUGS

• БЕРУШИ ПЕННЫЕ • GEHÖRSCHUTZSTÖPSEL AUS SCHAUMSTOFF



- MATERIAL:Polyurethane foam
- Sound insulation: SNR: 36dB, H: 34dB, M: 34dB, L: 31dB. Thanks to the self-forming polyurethane foam, the ear plug evenly distributes pressure on the hearing duct. Elastic. Very good protection from excessive noise. Application: food industry. Sold in plastic bags - 10 pairs in a package.
- NORM: EN 352-2

Code	Dimensions (mm)	
46002	11 x 25	10

6 SILICONE EAR PLUGS

• БЕРУШИ СИЛИКОНОВЫЕ • GEHÖRSCHUTZSTÖPSEL AUS SILIKON



- MATERIAL: Soft and flexible silicagel.
- Sound insulation: SNR: 32dB, H: 32dB, M: 29dB, L: 28dB. Protection from excess noise; perfect insulation of high-frequency sounds. Special ring shape enables easy fitting in the hearing duct. Smooth and dirt-proof surface preventing accumulation of dirt. Disposable product.
- NORM: EN 352-2

Code	Quantity per package		
L171020K	5 pairs	x	40/800

7 BOW-MOUNTED EAR PLUGS

• БЕРУШИ НА ДУЖКЕ
• BÜGELGEHÖRSCHUTZSTÖPSEL AUS SCHAUMSTOFF



- MATERIAL: Tips: thermoplastic elastomer. Bow: ABS.
- Sound insulation: SNR: 21dB, H: 22dB, M: 17dB, L: 15dB. Hearing protection from excessive noise; very good insulation of high-frequency sounds. Comfortable bow which ensures easy plug manipulation. Smooth and dirt-proof surface preventing accumulation of dirt. Lightweight and comfortable alternative to earmuffs. Reusable product.
- NORM: EN 352-2

Code		
L1710300	x	15/300

EYE AND FACE PROTECTION

face shields
glasses
goggles
welding helmets





1 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ • SCHUTZBRILLE KLAR





Kat. II
Cat. II

- MATERIAL: Transparent polycarbonate lenses with UV filter, covered with a special coating preventing fogging, resistant to scratching.
- Their inside is finished with EVA foam (dismountable) which seals, absorbs shock and improves the comfort of use. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed resistance from -5°C ± 2°C to 55°C ± 2°C). Resistance grade - FT.
- NORM: EN 166, EN 170

Code		
L1500500	x	48

2 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ
• SCHUTZBRILLE KLAR





- MATERIAL: Transparent polycarbonate lenses.
- Earpiece length and angle adjustment. Adjustment of earpiece length. Soft nosepiece reducing the risk of irritation. Wide field of vision. Lightweight and robust structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46037	x	48

3 GREY PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ СЕРЫЕ • SCHUTZBRILLE GRAU





- MATERIAL: Grey polycarbonate lenses with glare protection.
- Earpiece length and angle adjustment. Soft nosepiece reducing the risk of irritation. Wide field of vision. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 172

Code		
46038	x	48

4 YELLOW PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ ЖЁЛТЫЕ • SCHUTZBRILLE GELB





- MATERIAL: Yellow polycarbonate lenses with UV filter.
- Earpiece length and angle adjustment. Openings on the earpiece ends to attach a string/suspension. A soft nosepiece to reduce the risk of irritation. Wide field of vision. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 172

Code		
46039	x	48

1 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ • SCHUTZBRILLE KLAR



FT MECHANICAL RESISTANCE · -5°C 55°C EXTREME TEMPERATURE RESISTANCE · UV · Kat. II Cat. II · CE

- MATERIAL: Transparent polycarbonate lenses with UV filter. Comfortable, flexible earpieces made from TPR.
- Openings on the earpiece ends, enabling to attach a string/suspension. Soft nosepiece reducing the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C) Resistance class - FT.
- NORM: EN 166, EN 170

Code		
L1500200	x	12/300

2 GREY PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ СЕРЫЕ • SCHUTZBRILLE GRAU



FT MECHANICAL RESISTANCE · SPF SUN PROTECTIVE FACTOR · -5°C 55°C EXTREME TEMPERATURE RESISTANCE · Kat. II Cat. II · CE

- MATERIAL: Grey polycarbonate lenses with glare protection. Comfortable, flexible earpieces made from TPR.
- Openings on the earpiece ends, enabling to attach a string/suspension. Soft nosepiece reducing the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C). Resistance class - FT.
- NORM: EN 166, EN 172

Code		
L1500300	x	12/300

3 YELLOW PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ ЖЁЛТЫЕ • SCHUTZBRILLE GELB



FT MECHANICAL RESISTANCE · -5°C 55°C EXTREME TEMPERATURE RESISTANCE · UV · Kat. II Cat. II · CE

- MATERIAL: Yellow polycarbonate lenses with UV filter . Comfortable, flexible earpieces made from TPR.
- Openings on the earpiece ends, enabling to attach a string/suspension. Soft nosepiece reducing the risk of irritation. Lightweight and robust structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C). Resistance class - FT.
- NORM: EN 166, EN 170

Code		
L1500400	x	12/300

4 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ • SCHUTZBRILLE KLAR



F MECHANICAL RESISTANCE · UV · Kat. II Cat. II · CE

- MATERIAL: Transparent polycarbonate lenses.
- Adjustment of earpiece length. Soft nosepiece reducing the risk of irritation. Lightweight and robust structure. Designed for personal eye protection against mechanical damage.Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46033	x	12/300

5 GREY PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ СЕРЫЕ • SCHUTZBRILLE GRAU



F MECHANICAL RESISTANCE · SPF SUN PROTECTIVE FACTOR · Kat. II Cat. II · CE

- MATERIAL: Grey polycarbonate lenses with glare protection.
- Adjustment of earpiece length. Soft nosepiece reducing the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 172

Code		
46035	x	12/300

6 YELLOW PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ ЖЁЛТЫЕ • SCHUTZBRILLE GELB



F MECHANICAL RESISTANCE · UV · Kat. II Cat. II · CE

- MATERIAL: Yellow polycarbonate lenses with UV filter.
- Earpiece length and angle adjustment. Openings on the earpiece ends to attach a string/suspension. A soft nosepiece to reduce the risk of irritation. Lightweight and strong structure. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166, EN 170

Code		
46051	x	12/300

1 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ • SCHUTZBRILLE KLAR







Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Adjustable earpieces (angle and length adjustment). Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
L2011300	x	12/300

2 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ • SCHUTZBRILLE KLAR



Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46018	x	12/300

3 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ • SCHUTZBRILLE KLAR



Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Designed for personal eye protection in the hazard of splinters and splashes created when grinding, drilling, cutting, mowing, chiselling, coating etc.. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46023	x	10/100

4 TRANSPARENT PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ БЕСЦВЕТНЫЕ • SCHUTZBRILLE KLAR



Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate lenses.
- Designed for personal eye protection in the hazard of splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc.. Protect from impact with particles weighing 43 g at 5.1 m/s. Resistance class - S.
- NORM: EN 166

Code		
L1500100	x	12/240

5 MESH PROTECTIVE GLASSES

• ЗАЩИТНЫЕ ОЧКИ СЕТЧАТЫЕ • SCHUTZBRILLE MIT NETZ





Kat. II Cat. II CE

- MATERIAL: Metal mesh/plastic.
- No steaming effect thanks to lenses replaced with metal mesh. Special shape of earpieces, offering additional side protection and not reducing the field of vision. Openings on the earpiece ends to attach a string/ suspension . Lightweight and strong structure ensuring high comfort of use. Designed for personal eye protection against mechanical damage resulting from solids. Protect from impact with particles weighing 0.86 g at 45 m/s. Application: gardening works, i.e. shrub trimming, lawn mowing etc., tree felling, manual and machine treatment of wood, metals, plastic, stone and aggregates. Resistance class - F.
- NORM: EN 1731

Code		
LPOS01	x	12/300



1 PROTECTIVE GOGGLES

• ЗАЩИТНЫЕ ОЧКИ „ГУГЛЫ" ПРОТИВООСКОЛОЧНЫЕ • SPLITTERSCHUTZGOOGLES



BT MECHANICAL RESISTANCE

UV

ANTI-FOG

-5°C 55°C EXTREME TEMPERATURE RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate glass with UV filter with anti-fog coating.
- Protect from splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc. Wide, adjustable flexible rubber band, ensuring perfect fit. Ventilation openings to ensure excellent air circulation. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 120 m/s in extreme temperatures (guaranteed protection from -5°C ± 2°C to 55°C ± 2°C). Resistance class - BT.
- NORM: EN 166, EN 170

Code		
L1510500	x	5/100

2 PROTECTIVE GOGGLES

• ЗАЩИТНЫЕ ОЧКИ „ГУГЛЫ" ПРОТИВООСКОЛОЧНЫЕ • SPLITTERSCHUTZGOOGLES



B MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: The transparent polycarbonate glass.
- The transparent polycarbonate pane offers eye protection against splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc. Wide, adjustable flexible rubber band, ensuring perfect fit. Ventilation openings ensure perfect circulation of air. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 120 m/s. Resistance class - B.
- NORM: EN 166

Code		
L1510400	x	10/60

3 PROTECTIVE GOGGLES

• ЗАЩИТНЫЕ ОЧКИ „ГУГЛЫ" ПРОТИВООСКОЛОЧНЫЕ • SPLITTERSCHUTZGOOGLES



F MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: Transparent polycarbonate glass.
- Adjustable elastic rubber band, ensuring perfect fit. Cut-out openings preventing glass fogging. Designed for personal eye protection against mechanical damage. Protect from impact with particles weighing 0.86 g at 45 m/s. Resistance class - F.
- NORM: EN 166

Code		
46017	x	20/200

4 PROTECTIVE GOGGLES

• ЗАЩИТНЫЕ ОЧКИ „ГУГЛЫ" ПРОТИВООСКОЛОЧНЫЕ • SPLITTERSCHUTZGOOGLES



S MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: The transparent polycarbonate glass.
- Protect against splinters and splashes created when grinding, drilling, cutting, mowing, chiselling etc. Adjustable elastic rubber band, ensuring perfect fit. Cut-out openings preventing glass fogging. Protect from impact with particles weighing 43 g at 5.1 m/s. Resistance class - S.
- NORM: EN 166

Code		
L1510100	x	20/120

5 PROTECTIVE GOGGLES

• ЗАЩИТНЫЕ ОЧКИ „ГУГЛЫ" ПРОТИВООСКОЛОЧНЫЕ • SPLITTERSCHUTZGOOGLES



B MECHANICAL RESISTANCE

ANTI-FOG

Kat. II Cat. II CE

- MATERIAL: Transparent PC glass, resistant to fogging.
- The goggles are well-ventilated which improves the comfort of work. Protect from impact with particles weighing 0.86 g at 120 m/s. Resistance class - B.
- NORM: EN 166

Code	
46028	10

1 WELDING GOGGLES

• ОЧКИ „ГУГЛЫ" ЗАЩИТНЫЕ СВАРОЧНЫЕ • SCHWEISSBRBRILLE

CERTYFIKAT
CIOP – PIB



F MECHANICAL RESISTANCE

Kat. II Cat. II CE

- MATERIAL: metal
- Designed to protect the eyes and their vicinity against welding radiation, hot and cold splinters of melted metal, sinter, sun rays, when fining and melting certain metals, seam heating. Resistant to low-energy impact with a ball weighing 0.86 g at 45 m/s. The two glasses are connected with a special connector enabling to adjust them to any face. Not subject to deformation. Resistant to changing weather conditions and corrosion. Tilting frame with a filter, enabling to view without the need to remove the goggles.
- NORM: EN 175

Code	Dimensions (mm)	
L1510200	200 x 100 x 70	8/80

2 WELDING GOGGLES

• ОЧКИ „ГУГЛЫ" СВАРОЧНЫЕ • SCHWEISSBRBRILLE



x6

Kat. II Cat. II CE

- MATERIAL: made from plastic.
- Designed to protect eyes and their vicinity against welding radiation and sun rays. Tilting frame with a filter enabling to view without removing the goggles. With a replaceable protection pane and welding filter with dimming rate of 5 DIN. 6 ventilation openings. Weight 90 g.
- NORM: EN 175

Code	Dimensions (mm)	
L1510300	180 x 100 x 90	60

3 WELDING SHIELDS

• ЩИТКИ СВАРОЧНЫЕ • SCHWEISSSCHILDE

CERTYFIKAT
CIOP – PIB

L1530100



L1530200



L1530300



L1530400



Kat. II Cat. II CE

- MATERIAL: rigid pressboard
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN (for the window shield, the window filter has the dimming rate of 5 DIN).
- NORM: EN 175

Code	Filter size (mm)	Filter with preview	Dimensions (mm)	Handle type	
L1530100	50 x 100	no	470 x 290 x 105	wooden	30
L1530200	80 x 100	no	390 x 230 x 85	wooden	40
L1530300	50 x 100	no	390 x 230 x 85	plastic	35
L1530400	50 x 100 + 20 x 100	yes	390 x 230 x 85	wooden	40

4 WELDING SHIELDS

• ЩИТКИ СВАРОЧНЫЕ • SCHWEISSSCHILDE

CERTYFIKAT
CIOP – PIB

L1530500



L1530600



Kat. II Cat. II CE

- MATERIAL: rigid pressboard
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. Recommended especially for works in places difficult to reach. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN. Extra lightweight. Easily replaced filter and protective pane thanks to the plastic frame they are installed in.
- NORM: EN 175

Code	Filter size (mm)	Filter size	Dimensions	Handle type	
L1530500	50 x 100	no	350 x 260 x 85	plastic	40
L1530600	50 x 100	no	275 x 200 x 50	plastic	60

1 WELDING SHIELD

• ЩИТОК СВАРОЧНЫЙ • SCHWEISSSCHILD

CERTYFIKAT
CIOP – PIB



- MATERIAL: composite
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN. Easily replaced filter and protective pane. Resistant to cracking and moisture. Perfect for working outdoors.
- NORM: EN 175

Code	Filter size (mm)	Filter with preview	Dimensions (mm)	Handle type	
L1530700	50 x 100	nie	420 x 265 x 120	plastic	20

2 WELDING HELMET

• ШЛЕМ СВАРОЧНЫЙ • SCHWEISSHELM

CERTYFIKAT
CIOP – PIB



Adjustable head straps

- MATERIAL: plastic
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable welding filter with the dimming rate of 11 DIN, glass transparent filter and polycarbonate protective pane. Comfortable, adjustable head strap. Tilting frame with a filter enabling to see without the need to raise the visor helmet. Resistant to cracking and moisture. Perfect for working outdoors.
- NORM: EN 175

Code	Filter size (mm)	Helmet size (mm)	
L1540300	90 x 110	320 x 220 x 190	20

3 WELDING HELMETS

• ШЛЕМЫ СВАРОЧНЫЕ • SCHWEISSHELME

CERTYFIKAT
CIOP – PIB

L1540100





Adjustable head straps



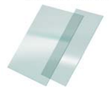
L1540200

- MATERIAL: rigid pressboard
- Designed for protecting welder's eyes, face and neck from intense visible light, hazardous ultraviolet and infrared radiation of the electric arc, as well as from the spatter of melt metal and slag during the welding process. The standard accessories include replaceable protective pane and welding filter with the dimming rate of 10 DIN (for the window-equipped version, the window filter has the dimming rate of 5 DIN). Comfortable, adjustable head strap.
- NORM: EN 175

Code	Filter size (mm)	Filter with preview	Helmet size (mm)	Collar (leather)	
L1540100	80 x 100	no	325 x 220 x 175	no	20
L1540200	50 x 100 + 20 x 100	yes	325 x 220 x 175	yes	20

1 AUTO DARKENING WELDING HELMET

• ШЛЕМ СВАРОЧНЫЙ САМОЗАТЕМНЯЮЩИЙСЯ • AUTOMATIK SCHWEISSHELM



Replaceble glass
L1540401
- see page 347





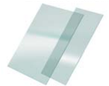


- MATERIAL: polyamide
- Two-range dimming 5–8/9–13 DIN. Permanent protection from UV/IR radiation - 16 DIN. Field of vision size 98 x 55 mm. 4 light sensors. Automatic switching on/off. Filter test. Grinding function. Response time: 1/25000 s. Smooth adjustment of sensitivity and lightening delay. Power supply: solar battery + 2 CR2450 batteries. Adjustable head straps. Replaceble glass L1540401 available.
- NORM: EN 379

Code	Field of vision size (mm)	Helmet size (mm)	
L1540400	98 x 55	241 x 230 x 330	6

2 AUTO DARKENING WELDING HELMET

• ШЛЕМ СВАРОЧНЫЙ САМОЗАТЕМНЯЮЩИЙСЯ • AUTOMATIK SCHWEISSHELM



Replaceble glass
L1540501
- see page 347





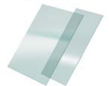


- MATERIAL: polyamide
- Dimming range 9–13 DIN. Permanent protection from UV/IR radiation - 16 DIN. Field of vision size 100 x 50 mm. 2 light sensors. Automatic switching on/off. Filter test. Grinding function. Response time: 1/25000 s. Smooth adjustment of sensitivity and lightening delay. Power supply: solar battery + 2 CR2032 batteries. Adjustable head straps. Replaceble glass L1540501 available.
- NORM: EN 379

Code	Field of vision size (mm)	Helmet size (mm)	
L1540500	100 x 50	241 x 230 x 330	6

3 AUTO DARKENING WELDING HELMET

• ШЛЕМ СВАРОЧНЫЙ САМОЗАТЕМНЯЮЩИЙСЯ • AUTOMATIK SCHWEISSHELM



Replaceble glass
L1540601
- see page 347







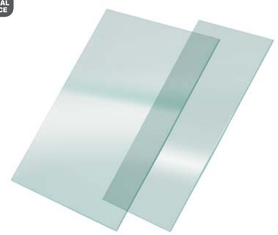
- MATERIAL: polyamide
- Dimming range 9–13 DIN. Permanent protection from UV/IR radiation - 16 DIN. Field of vision size 92 x 42 mm. 2 light sensors. Automatic switching on/off. Grinding function. Response time: 1/15000 s. Smooth adjustment of sensitivity and lightening delay. Power supply: solar battery + 2 non-replaceable CR2032 batteries. Adjustable head straps. Replaceble glass L1540601 available.
- NORM: EN 379

Code	Field of vision size (mm)	Helmet size (mm)	
L1540600	92 x 42	241 x 230 x 330	6

1 COVER LENS FOR WELDING HELMET

- НАБОР СМЕННЫХ СТЁКОЛ (ВНУТРЕННИХ И НАРУЖНЫХ) ДЛЯ САМОЗАТЕМНЯЮЩИХСЯ ШЛЕМОВ
- SATZ AUSTAUSCHBARER GLÄSER (INNEN UND AUSSEN) FÜR SELBSTDIMMENDE VISIERE

F MECHANICAL RESISTANCE



CE

- MATERIAL: polycarbonate
- Resistant to medium energy impact with a ball weighing 0.86 g at a speed of 45 m/s. Resistance class - F. Thickness 0.8 mm. For use as replaceable parts in L1540400, L1540500, L1540600 face masks.
- NORM: EN 166

Code	Helmet type	
L1540401	L1540400	50
L1540501	L1540500	50
L1540601	L1540600	50

2 FACE SHIELD ATTACHED TO INDUSTRIAL LAHTI PRO HELMET

- ЗАЩИТНЫЙ ЛИЦЕВОЙ ЩИТОК ДЛЯ КРЕПЛЕНИЯ К ПРОМЫШЛЕННОМУ ЗАЩИТНОМУ ШЛЕМУ LAHTI PRO
- GESICHTSSCHUTZ FÜR DIE BEFESTIGUNG AM INDUSTRIESCHUTZHELM LAHTI PRO

B MECHANICAL RESISTANCE

EASY FIX



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- First optical class. Resistant to solid spatter. Resistant to splashes of non-aggressive liquids created when working (e.g. manual and machine treatment of metal, wood, plastic etc.). Resistant to medium-energy impact with a ball weighing 0.86 g at 120 m/s. Resistance grade - B. Compatible with industrial LAHTI PRO helmets, codes: L10401, L10405 and noise-protection earmuffs L1700200.

Code	Helmet size (mm)	
L1520400	200	25/50



3 MESH FACE SHIELD ATTACHED TO INDUSTRIAL LAHTI PRO HELMET

- СЕТЧАТЫЙ ЛИЦЕВОЙ ЩИТОК ДЛЯ КРЕПЛЕНИЯ К ПРОМЫШЛЕННОМУ ЗАЩИТНОМУ ШЛЕМУ LAHTI PRO
- NETZGESICHTSSCHUTZ FÜR DIE BEFESTIGUNG AM INDUSTRIESCHUTZHELM LAHTI PRO

F MECHANICAL RESISTANCE

EASY FIX



Kat. II Cat. II CE

- MATERIAL: metal
- Resistant to solid spatter created when working (e.g. manual and machine treatment of metal, wood, plastic etc.). Resistant to low-energy impact with a ball weighing 0.86 g at 45 m/s. Resistance grade - F. Compatible with industrial LAHTI PRO helmets, codes: L10401, L10405 and noise-protection earmuffs L1700200.

Code	Shield height (mm)	
L1520500	210	25/50

1 FACE SHIELD

• ЗАЩИТНЫЙ ЛИЦЕВОЙ ЩИТОК • GESICHTSSCHUTZ

B MECHANICAL RESISTANCE

CERTYFIKAT CIOP – PIB



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Spatter protection with a visor and adjustable head straps, made from polycarbonate 1 mm thick. First optical class. Resistant to solid spatter. Resistant to liquid splashes:
  - of acids (sulphuric, hydrochloric, hydrosulphuric, nitric, phosphoric acids)
  - low-concentration alcohols, e.g. 25% ammonia
  - alcohols, except methyl alcohols
  - aliphatic hydrocarbons
  - detergents
  - fuels
  - mineral, animal, vegetable oils
  - engine oils

  Resistance to medium-energy impact with a ball weighing 0.86 g, with the speed of 120 m/s. Weight 245 g. Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520300	240	40

2 FACE SHIELD

• ЗАЩИТНЫЙ ЛИЦЕВОЙ ЩИТОК • GESICHTSSCHUTZ

B MECHANICAL RESISTANCE

CERTYFIKAT CIOP – PIB



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Spatter protection with adjustable head straps , made from polycarbonate 1 mm thick. First optical class. Resistance to solid splinters. Resistance to liquid splashes:
  - of acids (sulphuric, hydrochloric, hydrosulphuric, nitric, phosphoric acids)
  - low-concentration alcohols, e.g. 25% ammonia
  - alcohols, except methyl alcohols
  - aliphatic hydrocarbons
  - detergents
  - fuels
  - mineral, animal, vegetable oils
  - engine oils

  Resistance to medium-energy impact with a ball weighing 0.86 g, with the speed of 120 m/s. Weight 215 g. Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520200	240	45

3 FACE SHIELD

• ЗАЩИТНЫЙ ЛИЦЕВОЙ ЩИТОК • GESICHTSSCHUTZ

B MECHANICAL RESISTANCE

CERTYFIKAT CIOP – PIB



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Spatter protection with Velcro-adjustable head straps , made from polycarbonate 1 mm thick. First optical class. Resistant to solid spatter. Resistant to liquid splashes:
  - of acids (sulphuric, hydrochloric, hydrosulphuric, nitric, phosphoric acids)
  - low-concentration alcohols, e.g. 25% ammonium hydroxide
  - alcohols, except methyl alcohols
  - aliphatic hydrocarbons
  - detergents
  - fuels
  - mineral, animal, vegetable oils
  - engine oils.

  Resistance to medium-energy impact with a ball weighing 0.86 g, with the speed of 120 m/s. Weight 107 g. Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520100	200	100

4 FACE SHIELD

• ЗАЩИТНЫЙ ЛИЦЕВОЙ ЩИТОК • GESICHTSSCHUTZ

B MECHANICAL RESISTANCE



Kat. II Cat. II CE

- MATERIAL: polycarbonate
- Projectile guard with visor and adjustable headband. Made of polycarbonate. Resistant to solid spatter Resistant to medium energy impact with a ball weighing 0.86 g at a speed of 120 m/s, Resistance class - B.
- NORM: EN 166

Code	Pane height (mm)	
L1520600	200	10/40

5 MESH FACE SHIELD

• ЗАЩИТНЫЙ СЕТЧАТЫЙ ЛИЦЕВОЙ ЩИТОК • NETZ-GESICHTSSCHUTZ

F MECHANICAL RESISTANCE



Kat. II Cat. II CE

- MATERIAL: metal mesh
- Projectile guard with visor and adjustable headband. Made of metal mesh. Resistant to solid spatter. Resistant to medium energy impact with a ball weighing 0.86 g at a speed of 45 m/s. Resistance class - F.
- NORM: EN 166

Code	Pane height (mm)	
L1520700	180	10/40

RESPIRATORY PROTECTION

absorbers
half-masks
masks



1 FFP1 DUST-PROOF MASKS

• РЕСПИРАТОРЫ ПРОТИВОПЫЛЬНЫЕ FFP1 • STAUBMASKEN FFP1

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200100	5	x	100

2 FFP1 DUST-PROOF MASKS WITH A VALVE

• РЕСПИРАТОРЫ ПРОТИВОПЫЛЬНЫЕ FFP1 С КЛАПАНОМ
• STAUBMASKEN FFP1 MIT VENTIL

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200200	3	x	100

3 FFP1 FOLDABLE DUST-PROOF MASKS WITH A VALVE

• ПРОТИВОПЫЛЬНЫЕ МАСКИ СКЛАДЫВАЮЩИЕСЯ FFP1 С КЛАПАНОМ
• FALTBARE STAUBMASKEN FFP1 MIT VENTIL

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 4 x TLV. The foldable mask structure makes their storage easier. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L1200600	5	x	150

4 FFP1 DUST-PROOF MASKS WITH A VALVE AND AN ACTIVATED CARBON LAYER

• ПРОТИВОПЫЛЬНЫЕ МАСКИ FFP1 С КЛАПАНОМ СО СЛОЕМ АКТИВИРОВАННОГО УГЛЯ • STAUBMASKEN FFP1 MIT VENTIL MIT AKTIVKOHLESCHICHT

FFP1



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 4 x TLV. The activated carbon layer reduces the adverse effects related to odours. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L120090S	1	x	200

5 FFP2 DUST-PROOF MASKS

• РЕСПИРАТОРЫ ПРОТИВОПЫЛЬНЫЕ FFP2
• STAUBMASKEN FFP2

FFP2



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 10 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200300	5	x	100

6 FFP2 DUST-PROOF MASKS WITH A VALVE

• РЕСПИРАТОРЫ ПРОТИВОПЫЛЬНЫЕ FFP2 С КЛАПАНОМ
• STAUBMASKEN FFP2 MIT VENTIL

FFP2



Kat. III
Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 10 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
L1200400	3	x	100

1 FFP2 FOLDABLE DUST-PROOF MASKS WITH A VALVE

- ПРОТИВОПЫЛЬНЫЕ МАСКИ СКЛАДЫВАЮЩИЕСЯ FFP2 С КЛАПАНОМ
- FALTBARE STAUBMASKEN FFP2 MIT VENTIL

FFP2



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 10 x TLV. The foldable mask structure makes their storage easier. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L1200700	5	x	150

2 FFP2 DUST-PROOF MASKS WITH A VALVE AND AN ACTIVATED CARBON LAYER

- ПРОТИВОПЫЛЬНЫЕ МАСКИ FFP2 С КЛАПАНОМ СО СЛОЕМ АКТИВИРОВАННОГО УГЛЯ
- STAUBMASKEN FFP2 MIT VENTIL MIT AKTIVKOHLESCHICHT

FFP2



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 10 x TLV. The activated carbon layer reduces the adverse effects related to odours. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L1201005	5	x	200

3 FFP3 DUST-PROOF MASKS WITH A VALVE

- РЕСПИРАТОРЫ ПРОТИВОПЫЛЬНЫЕ FFP3 С КЛАПАНОМ
- STAUBMASKEN FFP3 MIT VENTIL

FFP3



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 30 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face. The insert improves tightness.
- NORM: EN 149

Code	Quantity per package		
L120050S	1	x	140

4 FFP3 DUST-PROOF MASKS WITH A VALVE

- РПРОТИВОПЫЛЬНЫЕ МАСК И СК ЛАДЫВАЮЩИЕСЯ FFP3 С КЛАПАНОМ • FALTBARE STAUBMASKEN FFP3 MIT VENTIL

FFP3



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 30 x TLV. The foldable mask structure makes their storage easier. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seam guarantee comfortable use. The valve offers easier exhalation. The head straps made from braided rubber threads ensure perfect fit of the mask to the face. Head strap clips ensure smooth adjustment.
- NORM: EN 149

Code	Quantity per package		
L120080S	1	x	200

5 FFP1 DUST-PROOF MASKS WITH-OUT A VALVE

- РЕСП ИРАТОРЫ ПРОТИВОПЫЛЬНЫЕ FFP1 БЕЗ КЛАПАНА
- STAUBMASKEN FFP1 OHNE VENTIL

FFP1



Kat. III Cat. III CE

- MATERIAL: Multi-layered filtration material.
- Designed for work in conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
46006	5	x	100

6 FFP1 DUST-PROOF MASKS WITH A VALVE

- РЕСПИРАТОРЫ ПРОТИВОПЫЛЬНЫЕ FFP1 С КЛАПАНОМ
- STAUBMASKEN FFP1 MIT VENTIL

FFP1



Kat. III Cat. III CE

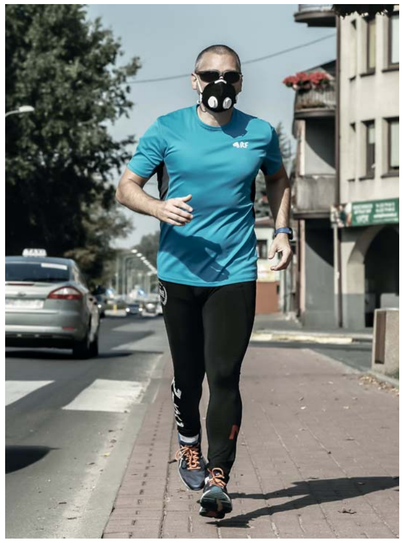
- MATERIAL: Multi-layered filtration material.
- Designed for work conditions where the dispersed phase concentration does not exceed 4 x TLV. Multi-layered filtration material protects the respiratory system. Nose clip and polyurethane foam seal guarantee comfortable use. The valve facilitates air exhalation. The headband made from braided rubber threads ensures perfect fit of the mask to the face.
- NORM: EN 149

Code	Quantity per package		
46007	3	x	100

1 HALF-FACE SMOG MASK WITH TWO VALVES AND ACTIVATED CHARCOAL LAYER

• РЕСПИРАТОР ДЛЯ ЗАЩИТЫ ОТ СМОГА С 2-Я КЛАПАНАМИ И СЛОЕМ АКТИВНОГО УГЛЯ
• ANTI-SMOG-HALBMASKE MIT ZWEI VENTILEN UND EINER AKTIVKOHLESCHICHT





- MATERIAL: Non-woven fabric with active carbon.
- Foldable mask design makes them easy to store. Multi-layer filter provides respiratory protection. A nose clip and polyurethane foam gasket guarantee comfortable use. Two valves makes exhaling easier. Headbands made of rubber threads in a braid ensure perfect adhesion of the mask to the face. Headband holders allow smooth adjustment.

Code	Quantity per package	
46008	1	200

2 SILICONE HALF-MASK "EURMASK"

• РЕСПИРАТОР СИЛИКОНОВЫЙ „EURMASK" • SILIKONHALBMASKE „EURMASK"



Kat. III
Cat. III CE

- MATERIAL: silicon
- High comfort of work and good fit to the user's face in workplaces with gas, vapour and mist hazard. After combining with appropriate absorbers or filtering absorbers with diameter 70 mm it can be used for protecting respiratory tract against hazardous chemicals.
  Application:
  - With absorbers 46055 - A1 - organic vapours up to the concentration of 0.1% in air; 46058 - A1B1E1K1 - any other gases up to the concentration of 0.1% in air
  - With filtering absorbers 46056 - A1P2 - organic vapours up to the concentration of 0.1% in air and dusts up to 10 X TLV. Easy operation. Absorbers not included. Half-masks are permitted only when the oxygen concentration in the air is not lower than 17% of the volume.
- NORM: EN 149

Code	Type	
46063	two absorbers	16

3 ABSORBERS FOR HALF-MASKS "EURMASK"

• ФИЛЬТРЫ ДЛЯ РЕСПИРАТОРОВ "EURMASK"
• FILTER FÜR HALBMASKEN „EURMASK"



Kat. III
Cat. III CE

- A1 - vapours and gases of organic substances
  B1 - vapours and gases of inorganic substances
  E1 - acid vapours
  K1 - vapours of ammonium hydroxide and its organic derivatives
  P2 - dust, smoke and mist - class 2 - longer lifecycle
  ABEK - mixtures of toxic gases and vapours (multi-gas)
  In the set of 2. 46058 - EN 14387 standard.
- NORM: EN 149, EN 14387

Code	Typ	
46055	A1	4/64
46056	A1, P2	4/64
46058	A1, B1, E1, K1 (ABEK)	4/64

WORK AT HEIGHT



connector ropes
safety harness
safety shock absorbers
self-locking devices
snaphooks

1 SAFETY HARNESS
• СТРАХОВОЧНАЯ ПРИВЯЗЬ • SICHERHEITSGURT



Kat. III
Cat. III

- MATERIAL: polyester
- The rear back catch in the form of a metal clamp. Two front textile catches. A belt for guided harness hanging with side clamps. Adjustable breast strap and thigh straps.
- NORM: EN 361

Code		
L8010300	x	15

2 SAFETY HARNESS
• СТРАХОВОЧНАЯ ПРИВЯЗЬ • SICHERHEITSGURT



Kat. III
Cat. III

- MATERIAL: polyester
- The rear back catch in the form of a metal clamp. Two front textile catches. Adjustable breast strap and thigh straps.
- NORM: EN 361

Code		
L8010200	x	40

3 SAFETY HARNESS
• СТРАХОВОЧНАЯ ПРИВЯЗЬ • SICHERHEITSGURT



Kat. III
Cat. III

- MATERIAL: polyester
- The rear back catch in the form of a metal clamp. Adjustable breast strap and thigh straps.
- NORM: EN 361

Code		
L8010100	x	40

4 KIT FOR WORK AT HEIGHT
• КОМПЛЕКТ ДЛЯ РАБОТ НА ВЫСОТЕ • SET FÜR HÖHENARBEITEN



Kat. III
Cat. III

- MATERIAL: polyester
- The set includes: Safety harness L8010200: the rear back catch in the form of a metal clamp. Two front textile catches. Adjustable breast strap and thigh straps. Safety shock absorber L8020100: length: 1.5 m, tape endings stitched together and covered with a protective sleeve. Steel snaphooks with a lock L8050100, 2 pieces: maximum opening: 18 mm. With a locking nut.
- NORM: EN 361, EN 362, EN 355

Code		
L8060100	x	25

5 SELF-LOCKING DEVICE
• УСТРОЙСТВО САМОТОРМОЗЯЩЕЕ • SELBSTBREMMSENDE VORRICHTUNG



Kat. III
Cat. III

- Working length: 6 m. Finished with a snaphook with a lock on the fixing eye side and with a revolving hook on the opposite side. Integrated locking mechanism.
- NORM: EN 360

Code	
L8040300	10

6 SELF-LOCKING DEVICE
• УСТРОЙСТВО САМОТОРМОЗЯЩЕЕ • SELBSTBREMMSENDE VORRICHTUNG



Kat. III
Cat. III

- Working length: 2.5 m. Finished with steel snaphooks with a lock. With a safety shock absorber. Integrated locking mechanism.
- NORM: EN 360

Code	
L8040200	20

1 SAFETY SHOCK ABSORBER WITH A DOUBLE LANYARD

• СТРАХОВОЧНЫЙ СТРОП С АМОРТИЗАТОРОМ – ДВОЙНОЙ • SICHERHEITSSTOSSDÄMPFER MIT DOPPELTER LEINE



Kat. III
Cat. III

- MATERIAL: polyester
- Length: 1.75 m. Lanyard endings with steel snaphooks. Lanyard loops with extra eyelets protecting from abrasion. Finished with a steel snaphook with a lock on the shock absorber side.
- NORM: EN 355

Code	
L8020200	10

2 SAFETY SHOCK ABSORBER WITH A LANYARD

• ПРЕДОХРАНИТЕЛЬНЫЙ АМОРТИЗАТОР С ТРОСОМ • SICHERHEITS-STOSSDÄMPFER MIT SCHNUR



Kat. III
Cat. III

- MATERIAL: polyester
- Length: 1.75 m. Endings with steel snaphooks. Lanyard loops with eyelets protecting from abrasion.
- NORM: EN 355

Code	
L8020300	20

3 SAFETY SHOCK ABSORBER

• СТРАХОВОЧНЫЙ АМОРТИЗАТОР • SICHERHEITSSTOSSDÄMPFER



Kat. III
Cat. III

- MATERIAL: polyester
- Length: 1.5 m. Tape endings stitched together and covered with a protective sleeve.
- NORM: EN 355

Code	
L8020100	50

4 LANYARD FOR SUPPORTED WORK

• СТРОП ДЛЯ РАБОТЫ С ПОДДЕРЖКОЙ • LEINE FÜR GESTÜTZTE ARBEITEN



Kat. III
Cat. III

- MATERIAL: polyester
- Adjustable length: 0.85 m – 1.35 m. Lanyard ending with an eyelet protecting from abrasion.
- NORM: EN 358

Code	
L8030100	50

5 CONNECTION ROPES

• СТРОПЫ ПРИСОЕДИНИТЕЛЬНЫЕ
• VERBINDUNGSLEINEN



Kat. III
Cat. III

- MATERIAL: polyester
- Rope endings with eyelets protecting from abrasion.
- NORM: EN 353-2

Code	Length (m)	
L8030210	10	20
L8030220	20	10

6 SELF LOCKING DEVICE

• САМОЗАЖИМНОЕ УСТРОЙСТВО • SELBSTSCHLIESSENDE VORRICHTUNG



Kat. III
Cat. III

- MATERIAL: polyester
- With a rope for connecting with the user's harness. Lever with automatic locking system. To be used with connection lanyards dia. 14 mm (L8030210, L8030220).
- NORM: EN 353-2

Code	
L8040100	30

7 STEEL SNAPHOOK WITH A LOCK

• КАРАБИН СТАЛЬНОЙ С БЛОКИРОВКОЙ
• STAHLKARABINERHABEN MIT BLOCKADE

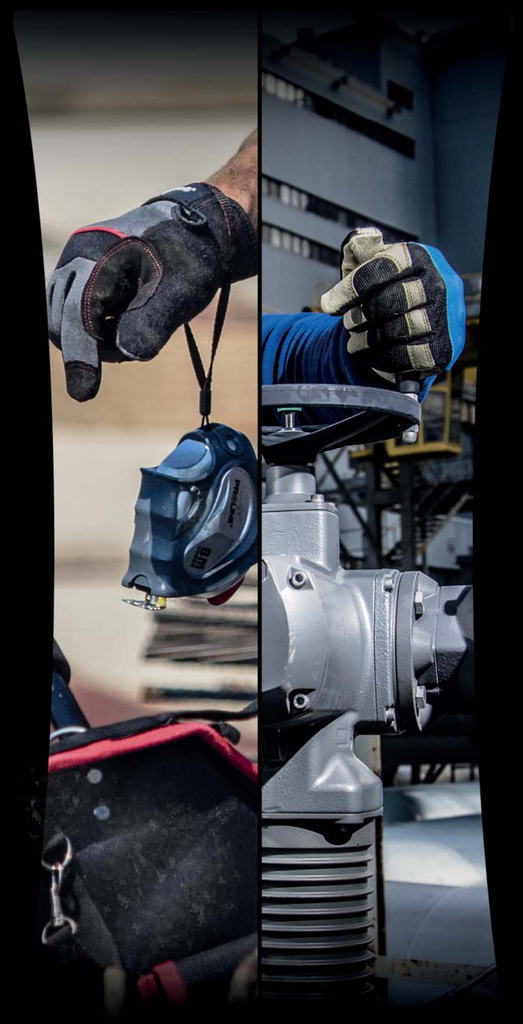


Kat. III
Cat. III

- MATERIAL: steel
- Maximum opening: 18 mm. With a locking nut.
- NORM: EN 362

Code	
L8050100	150

HAND PROTECTION



gloves:

- anti-vibration
- antistatic
- cotton
- cowhide
- disposable
- dotted
- furniture cowhide
- goatskin
- non-slip
- padded
- reinforced
- synthetic leather
- welding
- workshop

and many others

1 REFLECTIVE PVC-REINFORCED PROTECTIVE GLOVES

- ПЕРЧАТКИ ЗАЩИТНЫЕ СВЕТООТРАЖАЮЩИЕ, УПРОЧНЁННЫЕ ЭЛЕМЕНТАМИ ПВХ
- REFLEXHANDSCHUHE MIT PVC-ELEMENTEN VERSTÄRKT



- MATERIAL: PVC, microfibre, elastane, reflective fabric, neoprene.
- The top made from flexible fabric ensures perfect fit to hands. Reflective fabric on the fingers improves the user's visibility. Multiple PVC reinforcements on the grip part, fingers and thumb protect from abrasion. Terry on the thumb collects perspiration. Long, flexible cuff with a Velcro fastening ensures safety and comfort of use.
- NORM: EN 420

Size	Code		
9 (L)	**L280709K**	x	10/100
10 (XL)	**L280710K**	x	10/100
11 (2XL)	**L280711K**	x	10/100

2 PROTECTIVE GLOVES COVERED WITH NON-SLIP SILICONE MESH

- ПЕРЧАТКИ ЗАЩИТНЫЕ, ПОКРЫТЫЕ ПРОТИВОСКОЛЬЗЯЩЕЙ СИЛИКОНОВОЙ СЕТКОЙ
- SCHUTZHANDSCHUHE MIT ANTI-RUTSCH- NETZ AUS SILIKON



- MATERIAL: polyester, nylon, elastane, microfibre, silicone
- Silicone mesh on the glove palm improves comfort of work with slippery objects. SBR pads protect from corns and vibrations. Flexible elastane layers ensure perfect fit to the hand. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280108K**	x	10/100
9 (L)	**L280109K**	x	10/100
10 (XL)	**L280110K**	x	10/100
11 (2XL)	**L280111K**	x	10/100



1 PROTECTIVE GLOVES COVERED WITH NON-SLIP SILICONE

• ПЕРЧАТКИ ЗАЩИТНЫЕ, ПОКРЫТЫЕ ПРОТИВОСКОЛЬЗЯЩИМ СИЛИКОНОМ
• HANDSCHUHE MIT ANTI-RUTSCH-SILIKONBESCHICHTUNG



- MATERIAL: microfibre, polyester, nylon, silicone
- The top made from flexible fabric ensures perfect fit. Silicone pattern on the glove palm improves comfort of work with slippery objects. PVC reinforcement on the index finger protects from abrasion. Reflective material on the top improves the user's visibility. Flexible cuff with a Velcro fastening ensures comfort of use.
- NORM: EN 420

Size	Code		
8 (M)	**L281108K**	x	10/100
9 (L)	**L281109K**	x	10/100
10 (XL)	**L281110K**	x	10/100
11 (2XL)	**L281111K**	x	10/100

2 PROTECTIVE GLOVES WITH PVC PADDING

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПВХ ПОДУШКОЙ • SCHUTZHANDSCHUHE MIT PVC-KISSEN



- MATERIAL: microfibre, elastane, PVC, neoprene
- Additional PVC reinforcements on fingertips and part of index finger and thumb prevent rapid wear of the glove. The top made from flexible elastane ensures perfect fit. Thick, soft PVC pad protects from corns and vibrations, and prevents excess wear of the grip part. Elastic cuff with Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
9 (L)	**L280809K**	x	10/100
10 (XL)	**L280810K**	x	10/100
11 (2XL)	**L280811K**	x	10/100

3 HIGH VISIBILITY PROTECTIVE GLOVES WITH ANTI-CARD PADDING

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОВЫШЕННОЙ ВИДИМОСТИ, С ПОДУШКОЙ ЗАЩИЩАЮЩЕЙ ОТ МОЗОЛЕЙ
• SCHUTZHANDSCHUHE MIT ERHÖHTER SICHTBARKEIT UND BLASENSCHUTZKISSEN



- MATERIAL: microfibre, elastane
- The top of the glove, made from flexible elastane with improved visibility, ensures perfect fit to the hand and increases the user's visibility. Reinforcements on the grip part protect from excess wear. Soft pad on the grip part protects from corns and vibrations. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280508K**	x	6/72
9 (L)	**L280509K**	x	6/72
10 (XL)	**L280510K**	x	6/72
11 (2XL)	**L280511K**	x	6/72

4 PVC-REINFORCED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ, УПРОЧНЁННЫЕ ПВХ ЭЛЕМЕНТАМИ • HANDSCHUHE MIT PVC-ELEMENTEN VERSTÄRKT



- MATERIAL: Mikrofibra, PVC, elastan, polyester, neopren.
- The top of the glove, made from flexible elastane, ensures perfect fit to the hand. Reinforcements on the grip part protect from excess wear. Terry on the thumb collects perspiration.
- NORM: EN 420

Size	Code		
9 (L)	**L280909K**	x	6/72
10 (XL)	**L280910K**	x	6/72
11 (2XL)	**L280911K**	x	6/72

1 PVC-COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПВХ ПОКРЫТИЕМ • SCHUTZHANDSCHUHE MIT PVC-BESCHICHTUNG



- MATERIAL: polyester, cotton, elastane, neoprene, PVC
- The glove palm, with rough surface, ensures perfect grip. The top of the glove, made from flexible fabric, ensures perfect fit to the hand. Terry on the thumb collects perspiration. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L281008K**	x	6/60
9 (L)	**L281009K**	x	6/60
10 (XL)	**L281010K**	x	6/60
11 (2XL)	**L281011K**	x	6/60

2 HIGH-VISIBILITY PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ, ПОВЫШЕННОЙ ВИДИМОСТИ
• SCHUTZHANDSCHUHE MIT ERHÖHTER SICHTBARKEIT



- MATERIAL: microfibre, elastane, polyester
- The top of the glove is made from high-visibility fabric. Ventilated microfibre on the fingers ensures air circulation inside the glove. Flexible cuff with a velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280308K**	x	6/72
9 (L)	**L280309K**	x	6/72
10 (XL)	**L280310K**	x	6/72
11 (2XL)	**L280311K**	x	6/72

3 TWO-FINGER ANTI-CARD PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ БЕЗ 3 ПАЛЬЦЕВ, С ПОДУШКОЙ ЗАЩИЩАЮЩЕЙ ОТ МОЗОЛЕЙ
• SCHUTZHANDSCHUHE OHNE 3 FINGER MIT BLASENSCHUTZKISSEN



- MATERIAL: microfibre, elastane
- Soft pad on the grip part protects from corns and vibrations. The top of the glove, made from flexible elastane, prevents hand sweating and ensures perfect fit. Open finger tips offer high manual dexterity, enabling the user to do high-precision works and feel the object held. The insets on the tips of middle fingers make it easier to remove the glove. Elastic cuff with Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L281208K**	x	6/72
9 (L)	**L281209K**	x	6/72
10 (XL)	**L281210K**	x	6/72
11 (2XL)	**L281211K**	x	6/72

4 FINGERLESS ANTI-CARD PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ БЕЗ ПАЛЬЦЕВ, С ПОДУШКОЙ ЗАЩИЩАЮЩЕЙ ОТ МОЗОЛЕЙ
• FINGERLOSE SCHUTZHANDSCHUHE MIT BLASENSCHUTZKISSEN



- MATERIAL: microfibre, elastane
- Open finger tips enable the user to feel the object held and do high-precision works. The top of the glove, made from flexible elastane, ensures perfect fit. Ventilated microfibre on the fingers ensures air circulation inside the glove. The insets on the tips of middle fingers make it easier to remove the glove. Soft, reinforced pad on the grip part protects from corns and vibrations. Elastic cuff with Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L280608K**	x	6/72
9 (L)	**L280609K**	x	6/72
10 (XL)	**L280610K**	x	6/72
11 (2XL)	**L280611K**	x	6/72

1 SYNTHETIC LEATHER PROTECTIVE GLOVES

• ЗАЩИТНЫЕ ПЕРЧАТКИ ИЗ СИНТЕТИЧЕСКОЙ КОЖИ • SCHUTZHANDSCHUHE AUS KUNSTLEDER



Kat. I
Cat. I

- MATERIAL: microfibre, elastane
- Single-piece gripping part increases the glove's durability.
- NORM: EN 420

Size	Code		
8 (M)	**L271508K**	x	12/120
9 (L)	**L271509K**	x	12/120
10 (XL)	**L271510K**	x	12/120
11 (2XL)	**L271511K**	x	12/120

2 SYNTHETIC LEATHER PROTECTIVE GLOVES

• ЗАЩИТНЫЕ ПЕРЧАТКИ ИЗ СИНТЕТИЧЕСКОЙ КОЖИ
• SCHUTZHANDSCHUHE AUS KUNSTLEDER



Kat. I
Cat. I

- MATERIAL: microfibre, elastane
- Single-piece gripping part increases the glove's durability. Wide cuff provides additional wrist protection.
- NORM: EN 420

Size	Code		
7 (S)	**L271407K**	x	12/120
8 (M)	**L271408K**	x	12/120
9 (L)	**L271409K**	x	12/120



1 PIGSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ СВИНОЙ КОЖИ • SCHUTZHANDSCHUHE AUS SCHWEINSLEDER



Kat. I Cat. I CE

- MATERIAL: pigskin, microfibre, elastane, polyester, neoprene
- The top of the glove, made from flexible elastane, ensures perfect fit. Ventilated microfibre on the fingers ensures air circulation inside the glove. Double layer of leather on the part of thumb prevents rapid wear. The grip part made from a single leather piece increases the glove durability. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
9 (L)	**L280409K**	x	10/100
10 (XL)	**L280410K**	x	10/100
11 (2XL)	**L280411K**	x	10/100

2 GOATSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



Kat. I Cat. I CE

- MATERIAL: goatskin, cotton elastane
- The grip part made from a single leather piece increases glove durability. The top made from elastic material ensures perfect fit to the hand. Flexible cuff with a Velcro fastener ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L270808K**	x	12/120
9 (L)	**L270809K**	x	12/120
10 (XL)	**L270810K**	x	12/120
11 (2XL)	**L270811K**	x	12/120

3 GOAT LEATHER PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



Kat. I Cat. I CE

- MATERIAL: goatskin, cotton, elastane
- Single-piece leather grip increases the glove's durability. Inserts of high-visibility material. Elastic Velcro closed welt provides comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L271808K**	x	12/120
9 (L)	**L271809K**	x	12/120
10 (XL)	**L271810K**	x	12/120
11 (2XL)	**L271811K**	x	12/120

4 GOATSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



EN 388 2123x

Kat. II Cat. II CE

- MATERIAL: goatskin, cotton, elastane
- The grip part made from a single leather piece increases glove durability. Elastic cuff with Velcro ensures comfort.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L270208K**	x	12/120
9 (L)	**L270209K**	x	12/120
10 (XL)	**L270210K**	x	12/120
11 (2XL)	**L270211K**	x	12/120

1 GOATSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSHCUHE AUS ZIEGENLEDER



- MATERIAL: goatskin, cotton
- The grip part made from a single leather piece increases glove durability. Elastic cuff with Velcro ensures comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L270608K**	x	12/120
9 (L)	**L270609K**	x	12/120
10 (XL)	**L270610K**	x	12/120
11 (2XL)	**L270611K**	x	12/120

2 GOATSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



- MATERIAL: goatskin, cotton, elastane
- The grip part made from a single leather piece increases glove durability.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L270708K**	x	12/120
9 (L)	**L270709K**	x	12/120
10 (XL)	**L270710K**	x	12/120
11 (2XL)	**L270711K**	x	12/120

3 GOATSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



- MATERIAL: goatskin, cotton, elastane
- The grip part made from a single leather piece increases glove durability.
- NORM: EN 420

Size	Code		
8 (M)	**L271608K**	x	12/120
9 (L)	**L271609K**	x	12/120
10 (XL)	**L271610K**	x	12/120
11 (2XL)	**L271611K**	x	12/120



1 GOATSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



- MATERIAL: goatskin
- Gloves made entirely from leather are more durable. A wrist cuff ensures high work comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L271008K**	x	12/120
9 (L)	**L271009K**	x	12/120
10 (XL)	**L271010K**	x	12/120
11 (2XL)	**L271011K**	x	12/120

2 GOATSKIN PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



- MATERIAL: goatskin
- Gloves made entirely from leather are more durable. Ended with a cuff with extra wrist protection made from leather.
- NORM: EN 420

Size	Code		
8 (M)	**L271108K**	x	12/120
9 (L)	**L271109K**	x	12/120
10 (XL)	**L271110K**	x	12/120
11 (2XL)	**L271111K**	x	12/120

3 GOAT LEATHER PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



- MATERIAL: goatskin, cotton
- Single-piece leather grip increases the glove's durability. Finished with a welt.
- NORM: EN 420

Size	Code	
8 (M)	**L271708W**	10
9 (L)	**L271709W**	10
10 (XL)	**L271710W**	10
11 (2XL)	**L271711W**	10

12 pairs in a pack.

4 GOAT LEATHER PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ КОЗЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS ZIEGENLEDER



- MATERIAL: goatskin, cotton
- The grip part made from a single leather piece increases glove durability. Stiffened cuff ensures extra wrist protection.
- NORM: EN 420

Size	Code		
10 (XL)	**L270910K**	x	12/120

1 COWHIDE PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ БЫЧЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS RINDSLEDER





Kat. I Cat. I CE

- MATERIAL: split cowhide, cotton
- The grip part made from a single leather piece increases glove durability. High comfort of work thanks to the inner lining.
- NORM: EN 420

Size	Code		
10 (XL)	**L270110K**	x	12/120

2 COWHIDE PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ БЫЧЬЕЙ КОЖИ • SCHUTZHANDSCHUHE AUS RINDSLEDER



Kat. I Cat. I CE

- MATERIAL: split cowhide, cotton
- Stitched glove grip part. High comfort of work thanks to the inner lining.
- NORM: EN 420

Size	Code	
10 (XL)	**L270510W**	10

12 pairs in a pack.



3 FURNITURE COWHIDE PROTECTIVE GLOVES

• ЗАЩИТНЫЕ ПЕРЧАТКИ ИЗ МЕБЕЛЬНОЙ КОЖИ КРУПНОГО РОГАТОГО СКОТА
• SCHUTZHANDSCHUHE AUS MÖBELRINDSLEDER



Kat. I Cat. I CE

- MATERIAL: cowhide, cotton
- Stitched contact part. Leather cuff ensures extra wrist protection.
- NORM: EN 420

Size	Code	
10 (XL)	**L271310W**	10

12 pairs in a pack.

1 FURNITURE PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ МЕБЕЛЬНОЙ КОЖИ • SCHUTZHANDSCHUHE AUS MÖBELLEDER



Kat. I
Cat. I

- MATERIAL: full-grain leather, cotton
- Stitched grip part of the glove. High comfort of work thanks to the inner lining.
- NORM: EN 420

Size	Code		
10 (XL)	**L271210W**	x	10

12 pairs in a pack.

2 WELDING GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ СВАРОЧНЫЕ • SCHWEISSERSCHUTZHANDSCHUHE

NIE NIEPALNA
NON-FLAMMABLE
THREAD

EN 407
423x4x

EN 388
3244





Kat. II
Cat. II

- MATERIAL: split cowhide, cotton
- Glove length 35 cm. The grip part made from a single leather piece. High comfort of work and improved thermal insulation thanks to the inner lining. Non-flammable thread on the seams increases glove resistance to heat. High resistance to chafing, tearing and piercing (resistance level 4) . High resistance to flame, convection heat and small splinters of melted metal (resistance level 4). Application: welding.
- NORM: EN 420, EN 407, EN 388, EN12477-A

Size	Code		
11 (2XL)	**L270311K**	x	12/60

3 WELDING GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ СВАРОЧНЫЕ • SCHWEISSERSCHUTZHANDSCHUHE

NIE NIEPALNA
NON-FLAMMABLE
THREAD

EN 407
412x3x

EN 388
2132x



Kat. II
Cat. II

- MATERIAL: goatskin, cowhide
- Glove length 35 cm. Single-piece leather grip increases the glove's durability. Non-flammable thread at the seams improves the glove's resistance to high temperatures. High ignition resistance (level 4 resistance). Finished with a welt. Application: Welding
- NORM: EN 420, EN 407, EN388, EN12477-A

Size	Code		
10 (XL)	**L271910K**	x	12/120

4 WELDING GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ СВАРОЧНЫЕ • SCHWEISSERSCHUTZHANDSCHUHE

EN 407
413x4x

EN 388
3133





Kat. II
Cat. II

- MATERIAL: split cowhide, cotton
- Glove length 35 cm. The grip part made from a single leather piece. High resistance to flame, convection heat and small splinters of melted metal (resistance level 4). Application: welding.
- NORM: EN 420, EN 407, EN 388, EN12477-A

Size	Code		
11 (2XL)	**L270411K**	x	12/60

1 GLOVES PROTECTING FROM CHAINSAW CUTTING

• ПЕРЧАТКИ, ЗАЩИЩАЮЩИЕ ОТ ПОРЕЗОВ ЦЕПНОЙ ПИЛОЙ • SCHNITTSCHUTZHANDSCHUHE ZUM KETTENSÄGEN

EN 388 2122

EN 381-7 Klass 1 Wear A



Kat. III Cat. III CE

- MATERIAL: cow leather, polyamide
- Cut-proof insert on the left glove top prevents cutting with the chain saw moving at 20 m/s. The grip part made from a single leather piece increases glove durability. Extra leather reinforcement on the grip part prevents rapid wear. Ended with a cuff. Application: chainsaw use.

IMPORTANT: Only the left glove has the said protection from chainsaw cutting on its upper part. The cut-proof insert does not protect the left hand thumb and fingers.

- NORM: EN 388, EN 381-7

Size	Code		
10 (XL)	**L290210K**	x	10/50
11 (2XL)	**L290211K**	x	10/50

2 ANTI-VIBRATION PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ АНТИВИБРАЦИОННЫЕ • ANTI-VIBRATIONSSCHUTZHANDSCHUHE

EN 388 4142

ANTI-VIBRATION



Kat. II Cat. II CE

- MATERIAL: polyester, rubber
- The grip part of the glove with rubber pads to reduce vibration. High resistance to chafing and tearing (resistance level 4).
- NORM: EN 420, EN 388, EN ISO 10819

Size	Code		
10 (XL)	**L290110K**	x	12/60

3 COTTON PROTECTIVE GLOVES

• ХЛОПКОВЫЕ ЗАЩИТНЫЕ ПЕРЧАТКИ • BAUMWOLLSCHUTZHANDSCHUHE

100% COTTON



Kat. I Cat. I CE

- MATERIAL: cotton
- Elastic and stretchy, fit the hand perfectly. Ensure high manual abilities and perfect feel of the object kept in hand. Perfect for use inside other gloves. Finished with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L290308W**	25
9 (L)	**L290309W**	25
10 (XL)	**L290310W**	25
11 (2XL)	**L290311W**	25

12 pairs in a pack.



LAHTI PRO

1 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ • SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX

EN 388 2241



Kat. II Cat. II CE

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. High-quality knitwear - weave 10. Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code	
8 (M)	**L210208W**	10
9 (L)	**L210209W**	10
10 (XL)	**L210210W**	10
11 (2XL)	**L210211W**	10

Size	Code	
9 (L)	**L210209K**	12/120

L210208W-L210211W 12 pairs in a pack.
L210209K 1 pair on a card.

2 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ • SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, cotton, latex.
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L210308W**	10
9 (L)	**L210309W**	10
10 (XL)	**L210310W**	10
11 (2XL)	**L210311W**	10

Size	Code	
9 (L)	**L210309K**	12/120

L210308W-L210311W 12 pairs in a pack.
L210309K 1 pair on a card.

3 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ • SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX

EN 388 4141



Kat. II Cat. II CE

- MATERIAL: nylon, polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. High resistance to chafing, tearing and piercing (resistance level 4). Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code	
7 (S)	**L210407W**	10
8 (M)	**L210408W**	10
9 (L)	**L210409W**	10
10 (XL)	**L210410W**	10

Size	Code	
9 (L)	**L210409K**	12/120

L210407W-L210410W 12 pairs in a pack.
L210409K 1 pair on a card.

4 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ • SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX



Kat. I Cat. I CE

- MATERIAL: nylon, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L211207W**	20
8 (M)	**L211208W**	20
9 (L)	**L211209W**	20
10 (XL)	**L211210W**	20
11 (2XL)	**L211211W**	20

Size	Code	
9 (L)	**L211209K**	12/240
10 (XL)	**L211210K**	12/240

L211207W-L211211W 12 pairs in a pack.
L211209K, L211210K 1 pair on a card.

5 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ • SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L210507W**	20
8 (M)	**L210508W**	20
9 (L)	**L210509W**	20
10 (XL)	**L210510W**	20

Size	Code	
9 (L)	**L210509K**	12/120

L210507W-L210510W 12 pairs in a pack.
L210509K 1 pair on a card.

6 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ • SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Elastic and stretchy, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
9 (L)	**L211109W**	20
10 (XL)	**L211110W**	20

12 pairs in a pack.

1 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ
• LATEXBESCHICHTETE SCHUTZHANDSCHUHE

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, latex
- Coated with a porous latex foam with a structure that increases resistance to abrasion and tears, and increases adhesion. Flexible and stretchable - ensure very good grip and high work comfort. Finished with a welt.
- NORM: EN 420

Size	Code		
7 (S)	**L211507K**	x	12/120
8 (M)	**L211508K**	x	12/120
9 (L)	**L211509K**	x	12/120

2 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ
• SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX



Kat. I Cat. I CE

- MATERIAL: polyester, cotton, latex
- Coated with a thick layer of porous latex, improving resistance to chafing and tearing and increasing grip. Additional thick latex surface on the top of the glove protects the metacarpal bones from abrasion. Ended with a cuff.
- NORM: EN 420

Size	Code	
10 (XL)	**L210910W**	10

Size	Code	
10 (XL)	**L210910K**	12/120

L210910W 12 pairs in a pack.
L210910K 1 pair on a card.

3 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ
• SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX



Kat. I Cat. I CE

- MATERIAL: cotton, polyester, latex
- Coated with latex, improving resistance to chafing and tearing. Ended with a cuff. Called "latex-dipped" gloves.
- NORM: EN 420

Size	Code	
9 (L)	**L210609W**	50

12 pairs in a pack.

4 LATEX COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ЛАТЕКСНЫМ ПОКРЫТИЕМ
• SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

LATEX



Kat. I Cat. I CE

- MATERIAL: cotton, polyester, latex
- Coated with latex on the grip part and half of the top. Porous surface ensures improved grip. Ended with a cuff.
- NORM: EN 420

Size	Code	
10 (XL)	**L211410W**	10

12 pairs in a pack.

5 HOUSEHOLD LATEX PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ХОЗЯЙСТВЕННЫЕ ИЗ ЛАТЕКСА
• SCHUTZHANDSCHUHE FÜR DEN HAUSHALT AUS LATEX

FLOCK-COVERED
LATEX
NON-SLIP SURFACE



Kat. I Cat. I CE

- MATERIAL: latex
- Rough, non-slip surface ensures improved grip. Flock inside to facilitate glove putting on and taking off.
- NORM: EN 420

Size	Code		
8 (M)	**L211008K**	x	12/240
9 (L)	**L211009K**	x	12/240

6 HOUSEHOLD LATEX PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ХОЗЯЙСТВЕННЫЕ ИЗ ЛАТЕКСА
• SCHUTZHANDSCHUHE FÜR DEN HAUSHALT AUS LATEX

FLOCK-COVERED
LATEX



Kat. I Cat. I CE

- MATERIAL: latex
- Rough grip surface ensures improved grip. Flock inside to facilitate glove putting on and taking off.
- NORM: EN 420

Size	Code		
8 (M)	**L211308K**	x	12/240
9 (L)	**L211309K**	x	12/240
10 (XL)	**L211310K**	x	12/240

LAHTI PRO

1 PADDED GOATSKIN PROTECTIVE GLOVES

• УТЕПЛЁННЫЕ ЗАЩИТНЫЕ ПЕРЧАТКИ ИЗ КОЗЬЕЙ КОЖИ • GEFÜTTERTE SCHUTZHANDSCHUHE AUS ZIEGENLEDER



- MATERIAL: goatskin, cotton, polyester
- The contact part made from a single leather piece increases the glove durability. Fleece lining protects the user from cold and ensures higher work comfort. Stiffened cuff ensures extra wrist protection.
- NORM: EN 420

Size	Code		
10 (XL)	**L250610K**	x	12/120

2 PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ • ISOLIERTE SCHUTZHANDSCHUHE



- MATERIAL: goatskin, elastane, polyester.
- Single-piece gripping part increases the durability of the glove. Top surface part of the glove made from an elastic fabric assures a perfect fit to the hand. Fleece lining protects the user against cold and increases work comfort. Elastic Velcro closed welt provides comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L251208K**	x	12/120
9 (L)	**L251209K**	x	12/120
10 (XL)	**L251210K**	x	12/120
11 (2XL)	**L251211K**	x	12/120

3 PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ • GEFÜTTERTE SCHUTZHANDSCHUHE



- MATERIAL: polyurethane, elastane, polyester
- The contact part made from a single piece increases the glove durability. The outer surface of the glove, made from high-visibility flexible material, ensures perfect fit to the hand. A reflective component along the index finger improves the user's visibility. Fleece lining protects the user from cold and ensures higher work comfort. A wrist cuff ensures high work comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L250708K**	x	12/120
9 (L)	**L250709K**	x	12/120
10 (XL)	**L250710K**	x	12/120
11 (2XL)	**L250711K**	x	12/120

4 PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ • ISOLIERTE SCHUTZHANDSCHUHE



- MATERIAL: polyurethane, elastane, polyester
- Single-piece gripping part increases the glove's durability. Top surface of the glove made from a high-visibility fabric also assures a perfect fit. A reflective element along the index finger increases the user's visibility. Fleece lining protects the user against cold and increases work comfort. Wrist welt provides good work comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L250908K**	x	12/120
9 (L)	**L250909K**	x	12/120
10 (XL)	**L250910K**	x	12/120
11 (2XL)	**L250911K**	x	12/120

1 PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ • ISOLIERTE SCHUTZHANDSCHUHE



- MATERIAL: polyurethane, elastane, polyester
- Single-piece gripping part increases the glove's durability. Top surface part of the glove made from an elastic fabric assures a perfect fit. Fleece lining protects the user against cold and increases work comfort. A special insert between the insulation lining and the outer material limits water penetration inside the glove. A reflective element along the index finger increases the user's visibility. Elastic Velcro closed welt provides comfort.
- NORM: EN 420

Size	Code		
8 (M)	**L251108K**	x	12/120
9 (L)	**L251109K**	x	12/120
10 (XL)	**L251110K**	x	12/120
11 (2XL)	**L251111K**	x	12/120

2 LATEX COATED PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ, С ЛАТЕКСНЫМ ПОКРЫТИЕМ
• SCHUTZHANDSCHUHE MIT FÜTTERUNG UND LATEX-BESCHICHTUNG

UP TO -50°C PROTECTION AGAINST COLD
LATEX
EN 511 010
EN 388 2231
EXTRA THICK ACRYLIC PADDING



- MATERIAL: acrylic, latex
- Coated with porous latex, improving resistance to chafing and tearing and improving grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420, EN 511, EN 388

Size	Code		
8 (M)	**L250108K**	x	12/120
9 (L)	**L250109K**	x	12/120
10 (XL)	**L250110K**	x	12/120
11 (2XL)	**L250111K**	x	12/120

3 LATEX COATED PADDED PROTECTIVE GLOVES

• LATEX COATED PADDED PROTECTIVE GLOVES • ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ, С ЛАТЕКСНЫМ ПОКРЫТИЕМ • GEFÜTTERTE SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

UP TO -50°C PROTECTION AGAINST COLD
HI-VIS
LATEX
EN 511 010
EN 388 2231
EXTRA THICK ACRYLIC PADDING



- MATERIAL: acrylic, latex
- Made from higher-visibility fabric. Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420, EN 511, EN 388

Size	Code		
8 (M)	**L250308K**	x	12/120
9 (L)	**L250309K**	x	12/120
10 (XL)	**L250310K**	x	12/120
11 (2XL)	**L250311K**	x	12/120

4 LATEX COATED PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ, С ЛАТЕКСНЫМ ПОКРЫТИЕМ • GEFÜTTERTE SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG

UP TO -50°C PROTECTION AGAINST COLD
HI-VIS
LATEX
EN 511 010
EN 388 2231
EXTRA THICK ACRYLIC PADDING



- MATERIAL acrylic, latex
- Made from higher-visibility fabric. Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420, EN 511, EN 388

Size	Code		
8 (M)	**L250208K**	x	12/120
9 (L)	**L250209K**	x	12/120
10 (XL)	**L250210K**	x	12/120
11 (2XL)	**L250211K**	x	12/120

1 LATEX COATED PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ, С ЛАТЕКСНЫМ ПОКРЫТИЕМ
• GEFÜTTERTE SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG



- MATERIAL: acrylic, latex
- Made from higher-visibility fabric. Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code		
8 (M)	**L250408K**	x	12/120
9 (L)	**L250409K**	x	12/120
10 (XL)	**L250410K**	x	12/120
11 (2XL)	**L250411K**	x	12/120

2 LATEX COATED PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ, С ЛАТЕКСНЫМ ПОКРЫТИЕМ • LATEXBESCHICHTETE ISOLIERTE SCHUTZHANDSCHUHE



- MATERIAL: acrylic, latex
- Made of a material that increases visibility. Coated with a porous latex that increases resistance to abrasion and tears, while also increasing adhesion. They protect the user from the cold and increase work comfort. Finished with a welt.
- NORM: EN 420

Size	Code		
8 (M)	**L251008K**	x	12/120
9 (L)	**L251009K**	x	12/120
10 (XL)	**L251010K**	x	12/120
11 (2XL)	**L251011K**	x	12/120

3 LATEX COATED PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ, С ЛАТЕКСНЫМ ПОКРЫТИЕМ
• GEFÜTTERTE SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG



- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L250508W**	10
9 (L)	**L250509W**	10
10 (XL)	**L250510W**	10
11 (2XL)	**L250511W**	10

Size	Code		
9 (L)	**L250509K**		12/120
10 (XL)	**L250510K**		12/120

L250508W-L250511W 12 pairs in a pack.
L250509K, L250510K 1 pair on a card.

4 LATEX COATED PADDED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ УТЕПЛЁННЫЕ, С ЛАТЕКСНЫМ ПОКРЫТИЕМ • GEFÜTTERTE SCHUTZHANDSCHUHE MIT LATEXBESCHICHTUNG



- MATERIAL: polyester, latex
- Coated with porous latex, improving resistance to chafing and tearing and increasing grip. Protect the user from cold and improve comfort of work. Elastic and flexible, ensure very good grip and high comfort of work. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L250808W**	10
9 (L)	**L250809W**	10
10 (XL)	**L250810W**	10
11 (2XL)	**L250811W**	10

Size	Code		
9 (L)	**L250809K**		12/120
10 (XL)	**L250810K**		12/120

L250808W-L250811W 12 pairs in a pack.
L250809K, L250810K 1 pair on a card.

1 NITRILE-COATED PROTECTIVE GLOVES WITH INCREASED RESISTANCE TO BLADE CUTTING (LEVEL 5)

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ С ПОВЫШЕННОЙ СТОЙКОСТЬЮ К РАЗРЕЗАНИЮ ОСТРЫМИ ПРЕДМЕТАМИ (УРОВЕНЬ 5) • HANDSCHUHE MIT NITRILBESCHICHTUNG UND EINER GESTEIGERTEN BESTÄNDIGKEIT GEGEN MESSERSCHNITTE (STUFE 5)

NITRILE

EN 388 4544

LEVEL 5 BLADE CUT RESISTANCE



Kat. II Cat. II CE

- MATERIAL: HDPE, glass fibre, nylon, elastane
- Made from a mixture of fibres offering utmost protection to blade cutting (resistance level 5). The grip part of the glove is coated with nitrile, increasing resistance to grease and oils. High resistance to abrasion, tear and piercing (resistance level 4).
- NORM: EN 420, EN 388

Size	Code		
9 (L)	**L200209K**	x	12/120
10 (XL)	**L200210K**	x	12/120
11 (2XL)	**L200211K**	x	12/120

2 SANDY NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ • HANDSCHUHE MIT NITRILBESCHICHTUNG

NITRILE

EN 388 4122



Kat. II Cat. II CE

- MATERIAL: polyamide, polyester, nitrile
- The grip part of the glove is coated with nitrile, increasing improved resistance to grease and oils. Nitrile coating with a special texture increases comfort of work with slippery objects. Elastic and stretchy, fit the hand shape perfectly. Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L220608K**	x	12/120
9 (L)	**L220609K**	x	12/120
10 (XL)	**L220610K**	x	12/120
11 (2XL)	**L220611K**	x	12/120

3 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ • NITRILBESCHICHTETE SCHUTZHANDSCHUHE

NITRILE



Kat. I Cat. I CE

- MATERIAL: nylon, elastane, nitrile.
- Nitrile coating on the gripping part and half of the upper. Foamed nitrile coating provides high breathability. Increased resistance to greases and oils. Flexible and stretchable, they match the shape of the hand perfectly. Finished with a welt
- NORM: EN 420

Size	Code		
7 (S)	**L221207K**	x	12/120
8 (M)	**L221208K**	x	12/120
9 (L)	**L221209K**	x	12/120
10 (XL)	**L221210K**	x	12/120
11 (2XL)	**L221211K**	x	12/120

4 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ • NITRILBESCHICHTETE SCHUTZHANDSCHUHE

NITRILE



Kat. I Cat. I CE

- MATERIAL: nylon, elastane, nitrile
- Nitrile coating on the gripping part and half of the upper. Thin, foamed nitrile coating provides high breathability, good dexterity and a perfect feel for the held object. Increased resistance to greases and oils. Flexible and stretchable, they match the shape of the hand perfectly. Finished with a welt
- NORM: EN 420

Size	Code		
7 (S)	**L221307K**	x	12/120
8 (M)	**L221308K**	x	12/120
9 (L)	**L221309K**	x	12/120
10 (XL)	**L221310K**	x	12/120
11 (2XL)	**L221311K**	x	12/120

1 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ • NITRILBESCHICHTETE SCHUTZHANDSCHUHE



- MATERIAL: nylon, elastane, nitrile
- Nitrile coating on the gripping part and half of the upper. Additional sprinkling of nitrile on the gripping part increases work comfort with slippery objects. Upper surface of the glove made from a high-visibility fabric. Foamed nitrile coating provides high breathability. Increased resistance to greases and oils. Flexible and stretchable, they match the shape of the hand perfectly. Finished with a welt.
- NORM: EN 420

Size	Code		
7 (S)	**L221407K**	x	12/120
8 (M)	**L221408K**	x	12/120
9 (L)	**L221409K**	x	12/120
10 (XL)	**L221410K**	x	12/120
11 (2XL)	**L221411K**	x	12/120



2 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ
• HANDSCHUHE MIT NITRILBESCHICHTUNG



- MATERIAL: nylon, nitrile
- Coated with double nitrile layer on the contact surface and half of the outer part. Nitrile coating with a special texture increases comfort of work with slippery objects. High abrasion resistance (resistance level 4). Improved resistance to grease and oil. Finished with a cuff.
- NORM: EN 420, EN 388

Size	Code		
8 (M)	**L221008K**	x	12/120
9 (L)	**L221009K**	x	12/120
10 (XL)	**L221010K**	x	12/120
11 (2XL)	**L221011K**	x	12/120

3 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ
• SCHUTZHANDSCHUHE MIT NITRILBESCHICHTUNG



- MATERIAL: polyester, nitrile
- Coated with nitrile on the grip and top part, to ensure higher resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L220708W**	10
9 (L)	**L220709W**	10
10 (XL)	**L220710W**	10
11 (2XL)	**L220711W**	10

12 pairs in a pack.

4 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ
• SCHUTZHANDSCHUHE MIT NITRILBESCHICHTUNG



- MATERIAL: polyester, nitrile
- Coated with nitrile on the contact surface and half of the outer part. Improved resistance to grease and oil. Finished with a cuff.
- NORM: EN 420

Size	Code	
8 (M)	**L221108W**	10
9 (L)	**L221109W**	10
10 (XL)	**L221110W**	10
11 (2XL)	**L221111W**	10

12 pairs in a pack.

1 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ
• HANDSCHUHE MIT NITRILBESCHICHTUNG

NITRILE



Kat. I
Cat. I

- MATERIAL: polyester, nitrile
- Coated with nitrile, ensuring higher resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L220307W**	20
8 (M)	**L220308W**	20
9 (L)	**L220309W**	20
10 (XL)	**L220310W**	20
11 (2XL)	**L220311W**	20

Size	Code		
9 (L)	**L220309K**		12/240
10 (XL)	**L220310K**		12/240

L220307W-L220311W 12 pairs in a pack.
L220309K, L220310K 1 pair on a card.

2 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ
• SCHUTZHANDSCHUHE MIT NITRILBESCHICHTUNG

NITRILE

EN 388
4111



Kat. II
Cat. II

- MATERIAL: cotton, nitrile
- Coated with nitrile on the grip surface and half of the top. High resistance to chafing (resistance level 4). Improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
9 (L)	**L220209W**	20
10 (XL)	**L220210W**	20

12 pairs in a pack.

3 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ
• SCHUTZHANDSCHUHE MIT NITRILBESCHICHTUNG

NITRILE



Kat. I
Cat. I

- MATERIAL: cotton, nitrile
- Coated with nitrile on the grip surface and half of the top. Improved resistance to grease and oil.
- NORM: EN 420

Size	Code	
8 (M)	**L220108W**	20
9 (L)	**L220109W**	20
10 (XL)	**L220110W**	20

12 pairs in a pack.

4 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ • HANDSCHUHE MIT NITRILBESCHICHTUNG

NITRILE

EN 388
4121x



Kat. II
Cat. II

- MATERIAL: cotton, polyester, nitrile
- Coated with nitrile on the grip and top part. Stiffened cuff. High resistance to chafing (resistance level 4). Improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
10 (XL)	**L220510W**	10

Size	Code		
10 (XL)	**L220510K**		12/120

L220510W 12 pairs in a pack.
L220510K 1 pair on a card.

5 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ • SCHUTZHANDSCHUHE MIT NITRILBESCHICHTUNG

NITRILE



Kat. I
Cat. I

- MATERIAL: cotton, nitrile
- Coated with nitrile on the grip part and top, to ensure improved resistance to grease and oil.
- NORM: EN 420

Size	Code	
10 (XL)	**L220910W**	10

12 pairs in a pack.

LAHTI PRO

1 NITRILE COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ПОКРЫТЫЕ НИТРИЛОМ • HANDSCHUHE MIT NITRILBESCHICHTUNG



- MATERIAL: polyester, nitrile
- Coated with nitrile along the entire grip part and on the finger tips outside, to ensure improved resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code		
7 (S)	**L220407K**	x	12/120
8 (M)	**L220408K**	x	12/120
9 (L)	**L220409K**	x	12/120

2 PROTECTIVE GLOVES MADE FROM NITRILE, DISPOSABLE

• ПЕРЧАТКИ ЗАЩИТНЫЕ ОДНОРАЗОВЫЕ ИЗ НИТРИЛА
• SCHUTZHANDSCHUHE EINWEGPRODUKT AUS NITRIL



- MATERIAL: nitrile
- Made from nitrile, ensuring higher resistance to grease and oil. Elastic and stretchy, fit the hand perfectly. Porous pattern on fingertips improves the comfort of work with slippery objects.
- NORM: EN 420

Size	Code	
7 (S)	**L220807B**	10
8 (M)	**L220808B**	10
9 (L)	**L220809B**	10
10 (XL)	**L220810B**	10

100 szt. in package.

3 POLYURETHANE-COATED PROTECTIVE GLOVES WITH INCREASED RESISTANCE TO BLADE CUTTING (LEVEL 5)

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПОЛИУРЕТАНОВЫМ ПОКРЫТИЕМ С ПОВЫШЕННОЙ СТОЙКОСТЬЮ К РАЗРЕЗАНИЮ ОСТРЫМИ ПРЕДМЕТАМИ (УРОВЕНЬ 5) • HANDSCHUHE MIT POLYURETHANBESCHICHTUNG UND GESTEIGERTER BESTÄNDIGKEIT GEGEN MESSERSCHNITTE (STUFE 5)



- MATERIAL: modified synthetic fibre, polyester, polyurethane
- PU-coating ensures high manual dexterity and perfect feel of the object held. High resistance to chafing (resistance level 4). Made from modified synthetic fibre with the highest resistance to blade cutting (resistance level 5). Ended with a cuff.
- NORM: EN 420, EN 388

Size	Code		
10 (XL)	**L200110K**	x	12/240

4 ANTISTATIC PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ АНТИЭЛЕКТРОСТАТИЧЕСКИЕ • ANTISTATISCHE SCHUTZHANDSCHUHE



- MATERIAL: nylon, carbon fibre, polyurethane
- Coated with polyurethane to ensure high manual dexterity and perfect feel of the object held. Carbon fibre prevents accumulation of static charge on the glove surface. Elastic and stretchy, fit the hand perfectly. High resistance to static charge (can be used in explosive atmosphere). Ended with a cuff. Wide scope of application (e.g. precision works, works related to installing electronic components, works in explosive atmosphere).

IMPORTANT: To ensure comprehensive static discharge protection, the gloves should be worn with protective clothes, shoes and headgear carefully selected and made from proven anti-static fabric.

- NORM: EN 420, EN 388, EN 16350:2014

Size	Code		
7 (S)	**L230407K**	x	12/120
8 (M)	**L230408K**	x	12/120
9 (L)	**L230409K**	x	12/120
10 (XL)	**L230410K**	x	12/120
11 (2XL)	**L230411K**	x	12/120

1 PU COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПОЛИУРЕТАНОВЫМ ПОКРЫТИЕМ
• SCHUTZHANDSCHUHE MIT POLYURETHANBESCHICHTUNG



Kat. I
Cat. I

- MATERIAL: polyester, polyurethane
- Coated with polyurethane, ensuring high manual dexterity and perfect feel of the object held. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L230107W**	25
8 (M)	**L230108W**	25
9 (L)	**L230109W**	25
10 (XL)	**L230110W**	25
11 (2XL)	**L230111W**	25

Size	Code	
9 (L)	**L230109K**	12/300
10 (XL)	**L230110K**	12/300

L230107W-L230111W 12 pairs in a pack.
L230109K, L230110K 1 pair on a card.

2 PU COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПОЛИУРЕТАНОВЫМ ПОКРЫТИЕМ
• SCHUTZHANDSCHUHE MIT POLYURETHANBESCHICHTUNG



Kat. I
Cat. I

- MATERIAL: polyester, polyurethane
- Coated with polyurethane, ensuring high manual dexterity and perfect feel of the object held. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code	
7 (S)	**L230207W**	25
8 (M)	**L230208W**	25
9 (L)	**L230209W**	25
10 (XL)	**L230210W**	25
11 (2XL)	**L230211W**	25

Size	Code	
9 (L)	**L230209K**	12/300
10 (XL)	**L230210K**	12/300

L230207W-L230211W 12 pairs in a pack.
L230209K, L230210K 1 pair on a card.

3 PU COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПОЛИУРЕТАНОВЫМ ПОКРЫТИЕМ
• HANDSCHUHE MIT POLYURETHANBESCHICHTUNG



Kat. II
Cat. II

- MATERIAL: polyester, polyurethane
- Coated with polyurethane, ensuring high manual abilities and perfect feel of the object kept in hand. High abrasion resistance (resistance level 4). Elastic and stretchy, fit the hand perfectly. Finished with a cuff.
- NORM: EN 420, EN 388

Size	Code	
8 (M)	**L230507W**	10
9 (L)	**L230508W**	10
10 (XL)	**L230509W**	10
11 (2XL)	**L230510W**	10

12 pairs in a pack.

4 PU COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПОЛИУРЕТАНОВЫМ ПОКРЫТИЕМ
• HANDSCHUHE MIT POLYURETHANBESCHICHTUNG



Kat. I
Cat. I

- MATERIAL: polyester, polyurethane
- Coated with polyurethane along the entire grip part and on the finger tips outside, to ensure improved manual dexterity and perfect feel of the object held. Elastic and stretchy, fit the hand perfectly. Ended with a cuff.
- NORM: EN 420

Size	Code		
7 (S)	**L230307K**	x	12/240
8 (M)	**L230308K**	x	12/240
9 (L)	**L230309K**	x	12/240

5 PVC COATED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ПВХ ПОКРЫТИЕМ
• SCHUTZHANDSCHUHE MIT PVC-ÜBERGUSS



Kat. II
Cat. II

- MATERIAL: cotton, PVC
- PVC-coated on the top and palm. High resistance to chafing (resistance level 4). Improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
9 (L)	**L240109W**	10
10 (XL)	**L240110W**	10

Size	Code	
10 (XL)	**L240110K**	12/120

L240109W, L240110W 12 pairs in a pack.
L240110K 1 pair on a card.

6 PVC PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ ИЗ ПВХ • SCHUTZHANDSCHUHE AUS PVC



Kat. II
Cat. II

- MATERIAL: cotton, PVC
- Coated with PVC in whole, to ensure improved resistance to grease and oil.
- NORM: EN 420, EN 388

Size	Code	
10 (XL)	**L240210W**	10

12 pairs in a pack.

1 DOTTED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ТОЧЕЧНЫМ ПОКРЫТИЕМ • GEPUNKTETE SCHUTZHANDSCHUHE

PVC



Kat. I
Cat. I



- MATERIAL: cotton, PVC.
- PVC spots assure a non-slip effect and excellent grip. Finished with a welt.
- NORM: EN 420

Size	Code		
7 (S)	**L240507K**	x	12/120
8 (M)	**L240508K**	x	12/120
9 (L)	**L240509K**	x	12/120

2 DOTTED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ТОЧЕЧНЫМ ПОКРЫТИЕМ • GEPUNKTETE SCHUTZHANDSCHUHE

PVC



Kat. I
Cat. I

- MATERIAL: cotton, PVC
- PVC dots offer non-slip properties and excellent grip. Finished with a cuff.
- NORM: EN 420

Size	Code	
10 (XL)	**L240310W**	25

12 pairs in a pack.

3 DOTTED PROTECTIVE GLOVES

• ПЕРЧАТКИ ЗАЩИТНЫЕ С ТОЧЕЧНЫМ ПОКРЫТИЕМ • GEPUNKTETE SCHUTZHANDSCHUHE

PVC



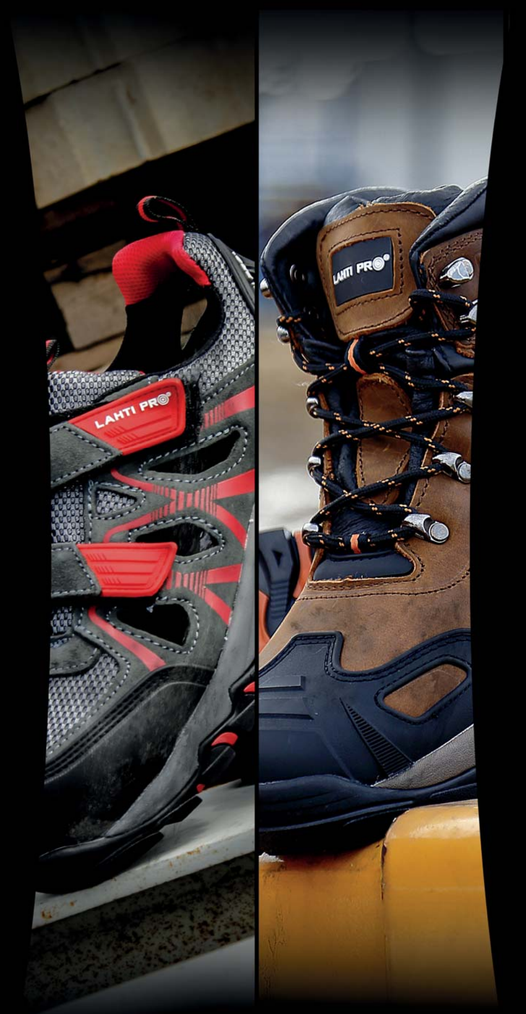
Kat. I
Cat. I

- MATERIAL: cotton, polyester
- PVC spots provide a non-slip effect and excellent grip
- NORM: EN 420

Size	Code	
10 (XL)	**L240410W**	10

12 pairs in a pack.

LEG PROTECTION



ankle boots
clogs
insoles
knee pads
wellingtons
sandals
shoe laces
shoes
snow boots

LAHTI PRO

1 SANDALS (SAFETY FOOTWEAR)

• САНДАЛИ (БЕЗОПАСНАЯ ОБУВЬ) • SANDALEN (SICHERHEITSSCHUHE)

S1 SRA · METAL FREE · RUBBER



- MATERIAL: Upper: suede / knitwear mesh, outer shoe front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRA
- The sandals have a composite toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30603XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 SANDALS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• САНДАЛИ БЕЗ УСИЛЕННОГО НОСКА (ПРОФЕССИОНАЛЬНАЯ ОБУВЬ)

• SANDALEN OHNE KAPPEN (BERUFSSCHUHE)

O1 SRA · METAL FREE · NO TOE CAP · RUBBER



- MATERIAL: Upper: suede / knitwear mesh, outer shoe front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRA
- The sandals have antistatic properties and a covered heelcap. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347: 2011

L30606XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

3 LADIES SANDALS (SAFETY FOOTWEAR)

• САНДАЛИИ ЖЕНСКИЕ (БЕЗОПАСНАЯ ОБУВЬ) • DAMENSANDALEN (SICHERHEITSSCHUHE)

S1 SRC · METAL FREE · RUBBER



- MATERIAL: Upper: suede / knitwear mesh, outer shoe front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic and steel surface), resistant to diesel oil.
- SAFETY CAT.: S1 SRC
- The sandals have a composite toe cap, antistatic properties, reflective elements and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30604XX XX: 36, 37, 38, 39, 40, 41, 42 — 10



1 SANDALS (SAFETY FOOTWEAR)

• САНДАЛИ (БЕЗОПАСНАЯ ОБУВЬ) • SANDALEN (SICHERHEITSSCHUHE)



- MATERIAL: Upper: suede. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The sandals have a steel toe cap and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements.
- NORM: ISO 20345: 2011

L30601XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 SANDALS (SAFETY FOOTWEAR)

• САНДАЛИ (БЕЗОПАСНАЯ ОБУВЬ) • SANDALEN (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The sandals have a steel toe cap and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements.
- NORM: ISO 20345: 2011

LPSOMAXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

3 SANDALS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• САНДАЛИ БЕЗ УСИЛЕННОГО НОСКА (ПРОФЕССИОНАЛЬНАЯ ОБУВЬ)
• SANDALEN OHNE KAPPEN (BERUFSSCHUHE)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRC
- The sandals have antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30602XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

4 LADIES SANDALS (SAFETY FOOTWEAR)

• САНДАЛИИ ЖЕНСКИЕ (БЕЗОПАСНАЯ ОБУВЬ) • DAMENSANDALEN (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (steel and ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRC
- The sandals have a steel toe cap, covered heelcap and antistatic properties. They absorb energy in their heel part.
- NORM: ISO 20345:2011

L30605XX XX: 36, 37, 38, 39, 40, 41, 42 — 10

LAHTI PRO

1 SHOES WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• ПОЛУБОТИНКИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
• HALBSCHUHE OHNE KAPPE (BERUFSSCHUHE)



- MATERIAL: Upper: high-quality full-grain trekking „crazy horse" leather, outer boot front and back strengthened with TPR, high-quality metal eyelets. Lining: leather. Insole: replaceable leather. Sole: non-slip rubber (ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O2 SRA
- The low-cut shoes offer the following features: anti-electrostatic properties, energy absorption in the heel area, a covered heel, and limited permeability and water absorption.
- NORM: ISO 20347:2011

L30415XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)



- MATERIAL: Upper: nubuck / knitwear mesh, outer shoe side strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The shoes have a composite toe cap, polymer anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30403XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather / Oxford knitwear, outer shoe back strengthened with TPR. Lining: knitwear mesh Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The shoes have a steel toe cap.
- NORM: ISO 20345:2011

L30402XX XX: 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 SHOES WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• ПОЛУБОТИНКИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ) • HALBSCHUHE OHNE KAPPEN (BERUFSSCHUHE)



- MATERIAL: Upper: nubuck / knitwear mesh, outer shoe side strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRA
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30409XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 SHOES WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• ПОЛУБОТИНКИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
• HALBSCHUHE OHNE KAPPEN (BERUFSSCHUHE)

OB FO SRA
METAL FREE
NO TOE CAP
RUBBER



Kat. II Cat. II

- MATERIAL: Upper: suede / Oxford knitwear, outer shoe back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: OB FO SRA
- The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30408XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)

S1P SRA
RUBBER



Kat. II Cat. II

- MATERIAL: Upper: suede, outer shoe front and back strengthened with TPR, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The shoes have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30410XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

3 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)

SB FO SRA
RUBBER



Kat. II Cat. II

- MATERIAL: Upper: suede. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil.
- SAFETY CAT.: SB FO SRA
- The shoes have a steel toe cap.
- NORM: ISO 20345:2011

L30407XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

4 LADIES' SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ ЖЕНСКИЕ (БЕЗОПАСНАЯ ОБУВЬ) • DAMENHALBSCHUHE (SICHERHEITSSCHUHE)

S1 SRA
RUBBER



Kat. II Cat. II

- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRA
- The shoes have a steel toe cap and antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements.
- NORM: ISO 20345:2011

L30406XX XX: 36, 37, 38, 39, 40, 41, 42 — 10

1 LADIES' SHOES WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

- ПОЛУБОТИНКИ ЖЕНСКИЕ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
- DAMENHALBSCHUHE OHNE KAPPEN (BERUFSSCHUHE)



O1 SRC

METAL FREE

NO TOE CAP

RUBBER



- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on steel and ceramic surfaces).
- SAFETY CAT.: O1 SRC
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20347:2011

L30411XX XX: 36, 37, 38, 39, 40, 41, 42 — 10

2 SHOES (SAFETY FOOTWEAR)

- ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)



S3 SRC



- MATERIAL: Upper: nubuck. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (steel and ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The low-cut shoes offer the following features: a steel toe cap, polymer insole, anti-electrostatic properties, energy absorption in the heel area, enclosed heel, limited permeability and water absorption.
- NORM: ISO 20345: 2011

L30414XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

3 SHOES (SAFETY FOOTWEAR)

- ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)



S1P SRA



- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The shoes have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30405XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

4 SHOES (SAFETY FOOTWEAR)

- ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)



S1P SRC



- MATERIAL: Upper: suede/ knitwear mesh, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRC
- The shoes have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30404XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

1 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)

S1 SRA

METAL FREE



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRA
- The shoes have a composite toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part. The shoes do not have any metal components.
- NORM: ISO 20345:2011

LPPOMBXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)

S3 SRC



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip one-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The shoes have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption, and reflective elements.
- NORM: ISO 20345:2011

LPPOMCXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • HALBSCHUHE (SICHERHEITSSCHUHE)

S1 SRC



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The shoes have a steel toe cap and antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements
- NORM: ISO 20345:2011

LPPOMAXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 SHOES WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• ПОЛУБОТИНКИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
• HALBSCHUHE OHNE KAPPEN (BERUFSSCHUHE)

O1 SRC

NO TOE CAP



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRC
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30401XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 LADIES' SHOES (SAFETY FOOTWEAR)

- ПОЛУБОТИНКИ ЖЕНСКИЕ (БЕЗОПАСНАЯ ОБУВЬ)
- DAMENHALBSCHUHE (SICHERHEITSSCHUHE)





- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRC
- The shoes have a steel toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30412XX XX: 36, 37, 38, 39, 40, 41, 42 10

2 LADIES' SHOES WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

- ПОЛУБОТИНКИ ЖЕНСКИЕ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
- DAMENHALBSCHUHE OHNE KAPPEN (BERUFSSCHUHE)





- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: O1 SRC
- The shoes have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30413XX XX: 36, 37, 38, 39, 40, 41, 42 10



1 ANKLE BOOTS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• БОТИНКИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ) • SCHNÜRSTIEFEL OHNE KAPPEN (BERUFSSCHUHE)

O2 SRA

HIGH QUALITY CRAZY HORSE LEATHER

LEATHER INSOLE LEATHER LINING

NO TOE CAP

RUBBER







- MATERIAL: Upper: high-quality full-grain trekking „crazy horse" leather, outer boot front and back strengthened with TPR, high-quality metal eyelets. Lining: leather. Insole: replaceable leather. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O2 SRA
- The boots display antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20347:2011

L30115XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S3 SRA

METAL FREE

RUBBER







- MATERIAL: Upper: nubuck, outer boot front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRA
- The over-ankle shoes offer the following features: a composite toe cap, polymer insole, anti-electrostatic properties, energy absorption in the heel area, enclosed heel, limited permeability and water absorption. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30117XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S3 SRA

METAL FREE







- MATERIAL: Upper: nubuck, TPR reinforced outer boot side and back. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRA
- The over-ankle shoes offer the following features: a composite toe cap, polymer anti-puncture insole, anti-electrostatic properties, energy absorption in the heel area, enclosed heel, limited permeability and water absorption, and include reflective elements. The shoes do not have any metal components.
- NORM: ISO 20345:2011

L30118XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: nubuck, outer boot front, side and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on steel and ceramic surfaces), a deep tread with a modern design ensures high footwear stability.
- SAFETY CAT.: SB SRC
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30103XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: nubuck, outer boot front, side and back strengthened with TPR, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30102XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: nubuck / knitwear mesh, outer boot side strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a composite toe cap, polymer anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part. The boots do not have any metal components.
- NORM: ISO 20345:2011

L30104XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather / Oxford knitwear, outer boot side and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30107XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: suede, outer boot front and back strengthened with TPR, side cushions provide additional ankle protection, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30110XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ANKLE BOOTS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• БОТИНКИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
• SCHNÜRSTIEFEL OHNE KAPPEN (BERUFSSCHUHE)



- MATERIAL: Upper: suede, outer boot front, side and back strengthened with TPR, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRA
- The boots have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30111XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ANKLE BOOTS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

• БОТИНКИ БЕЗ ПОДНОСКА (ПРОФЕССИОНАЛЬНАЯ ОБУВЬ)
• SCHNÜRSTIEFEL OHNE KAPPEN (BERUFSSCHUHE)



- MATERIAL: Upper: nubuck, outer boot front and back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: O2 SRA
- The boots display antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20347:2011

L30114XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: suede. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), resistant to diesel oil.
- SAFETY CAT.: SB FO SRA
- The boots have a steel toe cap.
- NORM: ISO 20345:2011

L30108XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

LAHTI PRO

1 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

SB SRA

RUBBER



- MATERIAL: Upper: suede, outer boot back strengthened with TPR. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip rubber (on ceramic surface), a deep tread ensures high footwear stability.
- SAFETY CAT.: SB SRA
- The boots have a steel toe cap and The shoes do not have any metal components.

L30105XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S3 SRC





- MATERIAL: Upper: nubuck. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

L30113XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S1P SRA



- MATERIAL: Upper: suede / knitwear mesh. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

LPTOMFXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

4 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S1P SRC





- MATERIAL: Upper: suede/ knitwear mesh, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRC
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30106XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

1 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S1P SRA



- MATERIAL: Upper: suede. Lining: knitwear mesh Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1P SRA
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

L30109XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S1 SRA

METAL FREE





- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on ceramic surface), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S1 SRA
- The boots have a composite toe cap, antistatic properties and a covered heel. They also absorb energy in the heel part. The boots do not have any metal components.
- NORM: ISO 20345:2011

LPTOMDXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

3 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S1P SRC





- MATERIAL: Upper: leather. Lining: cambrella knitwear. Insole: replaceable. Sole: non-slip single-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability and comfort of walking.
- SAFETY CAT.: S1P SRC
- The boots have a steel toe cap, steel anti-puncture insert, antistatic properties and covered heel. They also absorb energy in the heel part.
- NORM: ISO 20345:2011

LPTOMEXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

4 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

S3 SRC





- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

LPTOMGXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

1 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S1 SRC
- The boots have a steel toe cap and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel and reflective elements
- NORM: ISO 20345:2011

LPTOMCXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
• SCHNÜRSTIEFEL OHNE KAPPEN (BERUFSSCHUHE)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), a deep tread ensures high footwear stability.
- SAFETY CAT.: O1 SRC
- The boots have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

L30101XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

3 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather. Lining: knitwear mesh. Insole: replaceable. Sole: non-slip one-thickness polyurethane (steel and ceramic surface), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: SB FO SRC
- The over-ankle shoes have a steel toe cap.
- NORM: ISO 20345: 2011

L30116XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10



1 HIGH PADDED BOOTS (SAFETY FOOTWEAR)

- ВЫСОКИЕ УТЕПЛЁННЫЕ БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ)
- SCHNÜRSTIEFEL GEFÜTTERT HOCH (SICHERHEITSSCHUHE)

S3 SRC

METAL FREE





- MATERIAL: Upper: leather. Lining: fur knitwear. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread and parabolic heel which ensure high footwear stability and comfort of walking.
- SAFETY CAT.: S3 SRC
- The boots have a composite toe cap and polymer anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absreflective elements components. The boots do not have any metal components.
- NORM: ISO 20345:2011

L30301XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

2 HIGH PADDED BOOTS (SAFETY FOOTWEAR)

- ВЫСОКИЕ УТЕПЛЁННЫЕ БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ)
- SCHNÜRSTIEFEL GEFÜTTERT HOCH (SICHERHEITSSCHUHE)

S3 SRC







- MATERIAL: Upper: leather. Lining: fur knitwear. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

L30302XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 10

LAHTI PRO

1 PADDED ANKLE BOOTS (SAFETY FOOTWEAR)

• УТЕПЛЁННЫЕ БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL GEFÜTTERT (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather. Lining: fur knitwear. Insole: replaceable. Sole: non-slip two-thickness polyurethane (on steel and ceramic surfaces), resistant to diesel oil, a deep tread ensures high footwear stability.
- SAFETY CAT.: S3 SRC
- The boots have a steel toe cap and steel anti-puncture insert, and display antistatic properties. They absorb energy in their heel part. They possess also a covered heel, limited water permeability and absorption.
- NORM: ISO 20345:2011

L30303XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 SNOW BOOTS

• БОТИНКИ ЗИМНИЕ ДУТЫЕ • SCHNEESTIEFEL



- MATERIAL: Upper: suede/ Oxford knitwear, high-quality metal eyelets. Lining: knitwear mesh. Insole: replaceable fur. Sole: high-quality TPR.

L30801XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 12

3 SNOW BOOTS

• БОТИНКИ ЗИМНИЕ ДУТЫЕ • SCHNEESTIEFEL

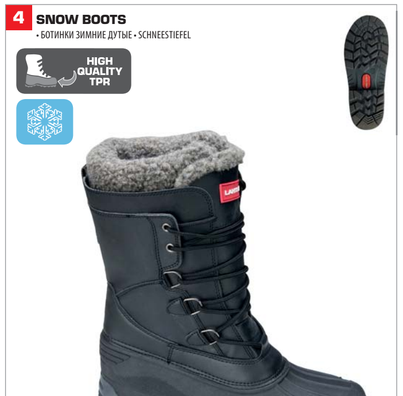


- MATERIAL: Upper: artificial suede. Lining: knitwear mesh. Insole: replaceable fur. Sole: high-quality TPR.

L30804XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 12

4 SNOW BOOTS

• БОТИНКИ ЗИМНИЕ ДУТЫЕ • SCHNEESTIEFEL



- MATERIAL: Upper: artificial leather. Lining: replaceable fur knitwear, tinfoil improving thermal insulation properties. Sole: high-quality TPR.

L30802XX XX: 39, 40, 41, 42, 43, 44, 45, 46 — 8

1 HIGH WELLINGTON BOOTS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

- ВЫСОКИЕ НЕПРОМОКАЕМЫЕ САПОГИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
- GUMMISTIEFEL OHNE KAPPEN NOCH (BERUFSSCHUHE)

O4 SRA

NO TOE CAP



- MATERIAL: Upper: PVC. Lining: knitwear Sole: Non-slip PVC (on ceramic surface).
- SAFETY CAT.: O4 SRA
- The wellingtons have antistatic properties and a covered heel. They also absorb energy in the heel part.
- NORM: ISO 20347:2011

LPKOMAXX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

2 HIGH WELLINGTONS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

- ВЫСОКИЕ НЕПРОМОКАЕМЫЕ САПОГИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
- GUMMISTIEFEL OHNE KAPPEN NOCH (BERUFSSCHUHE)

OB SRA

NO TOE CAP





- MATERIAL: Upper: PVC. Lining: knitwear Sole: Non-slip PVC (on ceramic surface).
- SAFETY CAT.: OB SRA
- NORM: ISO 20347:2011

L30702XX XX: 40, 41, 42, 43, 44, 45,46, 47 — 5

3 MEDIUM-HIGH WELLINGTONS WITH NO TOE CAP (OCCUPATIONAL FOOTWEAR)

- СРЕДНЕВЫСОКИЕ НЕПРОМОКАЕМЫЕ САПОГИ БЕЗ ПОДНОСКА (ОБУВЬ ДЛЯ ПРОФЕССИОНАЛЬНОГО ИСПОЛЬЗОВАНИЯ)
- GUMMISTIEFEL OHNE KAPPEN HALBNOCH (BERUFSSCHUHE)

OB E

NO TOE CAP





- MATERIAL: Upper: PVC. Lining: knitwear Sole: PVC.
- SAFETY CAT.: OB E
- The wellingtons absorb energy in the heel part.
- NORM: EN ISO 20347:2004

L30701XX XX: 41, 42, 43, 44 — 8

XX: 45,46, 47 — 6

4 HIGH WELLINGTONS (SAFETY FOOTWEAR)

- ВЫСОКИЕ НЕПРОМОКАЕМЫЕ САПОГИ (БЕЗОПАСНАЯ ОБУВЬ)
- REGENSTIEFEL HOCH (SICHERHEITSSCHUHE)

demar.





- MATERIAL: Upper: modified PVC. Lining: polyester knitwear. Sole: oil-proof PVC.
- SAFETY CAT.: S5
- Additional ankle protection.
- NORM: PN EN ISO 20345:2012

DKRMCXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

5 HIGH WELLINGTONS WITH PADDING

- ВЫСОКИЕ НЕПРОМОКАЕМЫЕ УТЕПЛЁННЫЕ САПОГИ
- GUMMISTIEFEL MIT WÄRMEDÄMMENDEM VLIES HOCH

demar.

LIGHT WEIGHT







- MATERIAL: Upper: EVA. Sole: EVA.
- Highly durable, offering thermal insulation, flexible, ultralight; hardened sole and toe cap. Can be used with padding or without it (removable).

DKMBXX XX: 41, 42, 43, 44, 45, 46, 47 — 4

6 MEDIUM-HIGH WELLINGTONS WITH A CUFF AND PADDING

- СРЕДНЕВЫСОКИЕ УТЕПЛЁННЫЕ НЕПРОМОКАЕМЫЕ САПОГИ С ВОРОТНИКОМ • GUMMISTIEFEL MIT KRAGEN UND WÄRMEDÄMMENDEM VLIES HALBHOCH

LIGHT WEIGHT







- MATERIAL: Upper: EVA / waterproof polyester collar with adjustable width. Padding: thick felt. Sole: EVA.
- Highly durable, retain their flexibility and thermal insulation properties even in -30°C. Can be used with a padding or without it (removable).

K15361XX XX: 42, 43, 44, 45, 46, 47, 48 — 5

1 MEDIUM-HIGH WELLINGTONS WITH PADDING

- СРЕДНЕВЫСОКИЕ НЕПРОМОКАЕМЫЕ УТЕПЛЁННЫЕ САПОГИ
- GUMMISTIEFEL MIT WÄRMEDÄMMENDEM VLIES HALBHOCH



- MATERIAL: Upper: EVA. Padding: thick felt. Sole: EVA.
- Highly durable, retain their flexibility and thermal insulation properties even in -30°C. Can be used with a padding or without it (removable).

K15461XX XX: 42, 43, 44, 45, 46, 47, 48 — 5

2 MEDIUM-HIGH LADIE'S WELLINGTONS WITH PADDING

- СРЕДНЕВЫСОКИЕ НЕПРОМОКАЕМЫЕ ЖЕНСКИЕ УТЕПЛЁННЫЕ САПОГИ
- GUMMISTIEFEL MIT WÄRMEDÄMMENDEM VLIES HALBHOCH



- MATERIAL: Upper: EVA. Padding: thick felt. Sole: EVA.
- Highly durable, retain their flexibility and thermal insulation properties even in -30°C. Can be used with a padding or without it (removable).

K15162XX XX: 36, 37, 38, 39, 40, 41, 42 — 7

3 FELT WELLINGTONS

- САПОГИ НЕПРОМОКАЕМЫЕ С ВОЙЛОЧНЫМ ВЕРХОМ
- FILZ-GUMMISTIEFEL



- MATERIAL: Upper: Italian PVC/felt. Lining: felt/tinfoil (improving thermal insulation properties). Sole: PVC, special design, ensuring improved grip to the ground
- NORM: ISO 20347:2012

K15121XX XX: 40, 41, 42, 43, 44, 45, 46 — 5

4 LADIES' MEDIUM-HIGH WELLINGTONS

- СРЕДНЕВЫСОКИЕ НЕПРОМОКАЕМЫЕ ЖЕНСКИЕ САПОГИ
- DAMENGUMMISTIEFEL HALBHOCH



- MATERIAL: Upper: PVC insole: chemically bonded nonwoven fabric. Sole: PVC.

DKDPXX XX: 36/37, 37/38, 38/39, 39/40, 40/41 — 10

5 MID- HIGH LADIES' WELLINGTON BOOTS

- СРЕДНЕВЫСОКИЕ НЕПРОМОКАЕМЫЕ ЖЕНСКИЕ САПОГИ
- DAMENGUMMISTIEFEL HALBHOCH



- MATERIAL: Upper: PVC. Sole: PVC. Lining: polyester knitwear. Insole: replaceable nonwoven fabric.
- NORM: 89/686/EWG

DKDDXX XX: 36, 37, 38, 39, 40, 41, 42 — 5

6 CLOGS

- ШЛЁПАНЦЫ ТИПА „CLOGS" • CLOGS



- MATERIAL: Upper: EVA. Sole: EVA. Insert: non-slip inside preventing the foot from slipping off the shoe.
- Highly durable, flexible and with excellent thermal insulation. Perfect for men and women.

K14153XX XX: 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 — 16

1 SANDALS (SAFETY FOOTWEAR)

• САНДАЛИ (БЕЗОПАСНАЯ ОБУВЬ)
• SANDALEN (SICHERHEITSSCHUHE)



- MATERIAL: Upper: suede. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: LIGHT SOLE, two-thickness polyurethane.
- SAFETY CAT.: SB SRC
- NORM: ISO 20345:2012

DSRMWXX XX: 40, 41, 42, 43, 44, 45, 46, 47 — 5

2 "HUNTING" SHOES

• ПОЛУБОТИНКИ «ОХОТНИЧЬИ» • „JÄGER"-HALBSCHUHE



- MATERIAL: Upper: waterproof nubuck leather. Lining: 3D knitwear.Insole: replaceable, 3D knitwear CLIMATIC. Sole: LIGHT SOLE, two-thickness polyurethane.

DPMMAXX XX: 42, 43, 44, 46, — 5

3 SANDALS (SAFETY FOOTWEAR)

• САНДАЛИ (БЕЗОПАСНАЯ ОБУВЬ)
• SANDALEN (SICHERHEITSSCHUHE)



- MATERIAL: Upper: leather. Lining: 3D knitwear Insole: replaceable: anatomically moulded Sole: LIGHT SOLE, two-thickness polyurethane.
- NORM: PN EN ISO 20345:2012

DSRMXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

4 SHOES (SAFETY FOOTWEAR)

• ПОЛУБОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ)
• HALBSCHUHE (SICHERHEITSSCHUHE)



- MATERIAL: Upper: suede, polyester knitwear. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S1 SRC
- NORM: ISO 20345:2012

DPRMCXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

5 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ)
• HALBSCHUHE (SICHERHEITSSCHUHE)



- MATERIAL: Upper: suede, polyester knitwear. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S1 SRC
- NORM: ISO 20345:2012

DTRMCXX XX: 41, 45 — 5

6 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)



- MATERIAL: Upper: waterproof leather. Lining: 3D knitwear. Insole: replaceable, anatomically moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S2 SRC
- NORM: ISO 20345:2012 Kat. II

DTRMAXX XX: 40, 41, 42, 43, 44, 45, 46, 47, 48 — 5

LAHTI PRO

1 ANKLE BOOTS (SAFETY FOOTWEAR)

• БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL (SICHERHEITSSCHUHE)

demar.

S3 SRC



- MATERIAL: Sole: GRIMM, double-density polyurethane with the most modern, aggressive design and a deep non-slip tread; the front part has additional protection for toes.
- SAFETY CAT.: S3 SRC

DTRMBUXX	XX: 40, 41, 42, 43, 44, 45, 46, 47, 48	5

2 HIGH PADDED BOOTS (SAFETY FOOTWEAR)

• ВЫСОКИЕ УТЕПЛЁННЫЕ БОТИНКИ (БЕЗОПАСНАЯ ОБУВЬ) • SCHNÜRSTIEFEL GEFÜTTERT NOSK (SICHERHEITSSCHUHE)

demar.

S2 SRC



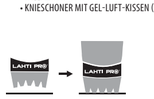
- MATERIAL: Upper: waterproof leather. Lining: fur knitwear. Insole: replaceable, moulded. Sole: GRIMM, two-thickness polyurethane with the cutting-edge, aggressive design and deep non-slip tread; with additional toe protection on the front.
- SAFETY CAT.: S2 SRC
- NORM: ISO 20345:2012

DTRMFXX	XX: 40, 41, 42, 43, 44, 45, 46, 47, 48	5



1 KNEE PADS WITH GEL-AIR CUSHION (TYPE 1)

- ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ С ВОЗДУШНО-ГЕЛЕВОЙ ПОДУШКОЙ (ТИП 1)
- KNIESCHONER MIT GEL-LUFT-KISSEN (TYP 1)







HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: 600D polyester
- Double protective layer (extra thick). Innovative technology - special shape of the gel and air cushion fits the shape of the surface, ensuring full stability of knees. Adjustable Velcro fastening.
- NORM: EN 14404

Code		
52311	x	6/24

2 ELASTIC CUSHION KNEE PADS (TYPE 1)

- ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ С ЭЛАСТИЧНОЙ ПОДУШКОЙ (ТИП 1)
- KNIESCHONER MIT ELASTISCHEM KISSEN (TYP 1)





HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: 600D polyester
- Elastic cushion with the shape adjusting to the knee. Thick protective layer. Double, adjustable Velcro fastening.
- NORM: EN 14404

Code		
52308	x	6/24

3 KNEE PADS WITH GEL-AIR CUSHION (TYPE 1)

- ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ С ВОЗДУШНО-ГЕЛЕВОЙ ПОДУШКОЙ (ТИП 1)
- KNIESCHONER MIT GEL-LUFT-KISSEN (TYP 1)





HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: 600D polyester
- Gel-air cushion. Double protective layer (extra thick). Adjustable Velcro fastening.
- NORM: EN 14404

Code		
52306	x	6/24

4 KNEE PADS WITH PVC PROTECTION (TYPE 1)

- ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ С ПВХ ЗАЩИТОЙ (ТИП 1)
- KNIESCHONER MIT PVC-SCHUTZ (TYP 1)





HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: 600D polyester
- Hard PVC cushion. Thick protective layer. Double, adjustable velcro fastening.
- NORM: EN 14404

Code		
52310	x	6/24

5 KNEE PADS WITH SOFT PROTECTION (TYPE 1)

- ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ С МЯГКОЙ ЗАЩИТОЙ (ТИП 1)
- KNIESCHONER MIT WEICHEN SCHÜTZERN (TYP 1)





HEAVY DUTY · Kat. I Cat. I · CE

- MATERIAL: 600D polyester
- Soft cushion protects the surface from scratching. Thick protective layer. Adjustable Velcro fastening.
- NORM: EN 14404

Code		
52309	x	6/24

6 KNEE PADS (TYPE 2)

- ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ (ТИП 2)
- KNIESCHONER (TYP 2)



20 mm x 160 mm x 240 mm · Kat. I Cat. I · CE

- MATERIAL: EVA/POE.
- Knee-pads for protective trousers and bib pants with pockets for knee pads (it is possible to adjust the knee-pad size by cutting them to match the size of pockets in trousers or bib pants). Thanks to their double thickness, they ensure high comfort of work. Ideal for works requiring kneeling i.e. finishing, construction, gardening works etc.
- NORM: EN 14404

Code		
LPN001	x	50

1 LEATHER KNEE PROTECTORS (TYPE 1)

• ЗАЩИТА КОЛЕН ИЗ КОЖИ (ТИП 1) • KNIESCHONER AUS LEDER (TYP 1)



- MATERIAL: Resin-reinforced Russia leather
- Made of resin-reinforced Russia leather which provides high abrasion resistance. Thick layer of material on the inside adapts to the knee's shape. Adjustable straps ensure smooth adjustment.
- NORM: EN 14404

Code		
L3100201	x	15

2 KNEE PADS WITH PVC PROTECTION (TYPE 1)

• ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ С ПВХ ЗАЩИТОЙ (ТИП 1)
• KNIESCHONER MIT PVC-SCHUTZ (TYP 1)

MEGA® DOBRY WYBÓR





- MATERIAL: 600D polyester
- Hard PVC cushion. Double, adjustable velcro fastening.
- NORM: EN 14404

Code		
52300	x	6/36

3 KNEE PADS (TYPE 1)

• ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ (ТИП 1)
• KNIESCHONER (TYP 1)





- MATERIAL: Waterproof, synthetic leather
- Flexible, ensuring freedom of movements. Resistant to crumbling and breaking. 52301 - single Velcro fastening. 52302 - double Velcro fastening.
- NORM: EN 14404

Code		
52301	x	6
52302	x	6

4 KNEE PROTECTORS (TYPE 1)

• ПРОТЕКТОРЫ КОЛЕННЫХ СУСТАВОВ (ТИП 1) • KNIESCHONER (TYP 1)



- MATERIAL: PU.
- Made of soft and flexible polyurethane, which protects the from scratches and adapts perfectly to the shape of the knee. Adjustable strap.
- NORM: EN 14404

Code		
L3100101	x	36



1 SPORT SHOE INSOLES

• СПОРТИВНЫЕ СТЕЛЬКИ ДЛЯ ОБУВИ
• EINLAGEN FÜR SPORTSCHUHE



EVA LATEX TPR

- MATERIAL: Three-layer structure - polyester fabric / EVA / inserts: TPR, EVA, latex, 4 mm thick.
- The insoles have a soft and flexible TPR shock-absorbing cushion and latex and EVA bottom inserts to relieve the pressure of the foot on the floor. The structured surface supports and stabilizes the foot, preventing the occurrence of flat foot. The design of the insoles reduces foot fatigue and increases comfort while walking. The perforated surface assures air circulation inside the shoe. Perfect for those who lead an active lifestyle.

L90306XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 40

2 SHOE INSOLES WITH ANTISTATIC THREAD

• СТЕЛЬКИ ДЛЯ ОБУВИ С АНТИСТАТИЧЕСКОЙ НИТЬЮ
• EINLAGEN FÜR SCHUHE MIT ANTISTATISCHEM FADEN



Antielectrostatic thread



EVA LATEX

- MATERIAL: Three-layer structure - polyester fabric / EVA / inserts: latex, anti-electrostatic thread, 4.5 mm thickness
- The insoles have latex bottom inserts to relieve the pressure of the foot on the floor. The design of the insoles reduces foot fatigue and increases comfort while walking. The perforated surface assures air circulation inside the shoe. **The insoles are meant for footwear with anti-static properties**

L90307XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 40

3 FELT INSOLES

• СТЕЛЬКИ ДЛЯ ОБУВИ ВОЙЛОЧНЫЕ • EINLAGEN FÜR SCHUHE MIT ANTISTATISCHEM FADEN



x10

- MATERIAL: High quality felt, 6mm thick.
- The insoles ensure thermal protection, absorb moisture and relieve the pressure of the foot on the floor. Perfect for autumn and winter season.

L90301XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

4 THERMAL INSOLES

• ТЕРМОСТЕЛЬКИ ДЛЯ ОБУВИ • THERMOSCHUHEINLAGEN



x10

- MATERIAL: Three-layer construction - high-quality felt/foam/aluminum film, 6 mm thick.
- The insoles provide increased thermal insulation, absorb moisture, facilitate adaptation to the shape of the foot and relieve the pressure of the foot on the ground. Perfect for the autumn and winter season.

L90302XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

5 ANTIBACTERIAL INSOLES

• СТЕЛЬКИ ДЛЯ ОБУВИ С АНТИБАКТЕРИАЛЬНОЙ ПРОПИТКОЙ
• ANTIBAKTERIELLE SCHUHEINLAGEN



x10

- MATERIAL: Two-layer structure - cotton fabric/ latex, thickness 3 mm.
- The insoles contain an antibacterial and fungicidal agent from the Swiss company Sanitized. They protect feet against bacteria, fungi, yeasts and mites that are responsible for unpleasant odors. The perforated surface assures air circulation inside the shoe and gives a fresh feeling. The latex layer prevents the insole from moving inside the shoe. The insoles are recommended for sensitive feet.

L90303XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

6 ANTIPERSPIRANT INSOLES

• СТЕЛЬКИ ОТ ПОТА • ANTI-SCHWEISS-SCHUHEINLAGEN



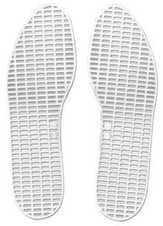
x10

- MATERIAL: Two-layer structure - cotton fabric/ latex, thickness 3 mm
- The insoles contain an agent with activated carbon, reduce excessive sweating and neutralize unpleasant odors. The perforated surface assures air circulation inside the shoe and gives a fresh feeling. The latex layer prevents the insole from moving inside the shoe.

L90304XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 10

1 MILITARY INSOLES

• СТЕЛЬКИ ДЛЯ ВОЕННОЙ ОБУВИ
• EINLAGEN FÜR MILITÄRSCHUHE



x5

- MATERIAL: polyethylene
- Thanks to a mesh structure the insoles assure excellent air circulation inside the shoe and prevent sweating. The insoles are particularly adapted to closed shoes, with limited ventilation. They are flexible, durable and resistant to damage.

L90305XX XX: 39, 40, 41, 42, 43, 44, 45, 46, 47 — 20

2 ROUND SHOE LACES

• КРУГЛЫЕ ШНУРКИ ДЛЯ БОТИНОК 'ТРЕККИНГОВЫЕ' • RUNDE SCHNÜRSENKEL



100% POLYESTER x10 PAIRS

- MATERIAL: 100% polyester
- Round, „trekking" laces with a diameter of 4 mm, reinforced with a core increasing resistance to abrasion and tearing. Available in 4 colour versions and lengths: 100 cm, 120 cm and 150 cm

Code	Size (cm)	Colour	
L9040100	100		10/120
L9040120	120		10/120
L9040150	150		10/120
L9040200	100		10/120
L9040220	120		10/120
L9040250	150		10/120
L9040300	100		10/120
L9040320	120		10/120
L9040350	150		10/120
L9040400	100		10/120
L9040420	120		10/120
L9040450	150		10/120

Each pair comes with a bar code

3 FLAT SHOE LACES

• ПЛОСКИЕ ШНУРКИ ДЛЯ БОТИНОК • FLACHE SCHNÜRSENKEL



100% COTTON x10 PAIRS

- MATERIAL: 100% cotton.
- Flat cotton laces, 7 mm wide. Available in 2 colour versions and lengths: 100 cm (white and black) and 120 cm (black).

Code	Size (cm)	Colour	
L9040500	100		10/120
L9040520	120		10/120
L9040600	100		10/120

Each pair comes with a bar code

4 FLAT SHOE LACES

• ПЛОСКИЕ ШНУРКИ ДЛЯ БОТИНОК • FLACHE SCHNÜRSENKEL



100% POLYESTER x10 PAIRS

- MATERIAL: 100% polyester
- Flat shoelaces 9 mm wide. Available in 2 colour versions and with a standard length of 110 cm (+/-10 cm after stretching)

Code	Size (cm)	Colour	
L9040710	universal		10/120
L9040810	universal		10/120

Each pair comes with a bar code

DECORATION OF CLOTHES

We know the importance of your brand







EMBROIDERY OR PRINT?

Clothing is an important part of building an image. Employees represent their company, so their neat appearance, consistent with the company's visual identity, should be a concern of every employer who wants to develop their business. We offer comprehensive solutions, which allow us to permanently mark almost every item of clothing with logos or advertising slogans. We offer competitive prices, a wide selection of clothing and short lead times.



EMBROIDERY

This is one of the noblest ways of decorating textiles. It is extremely durable, reliable and gives clothing a unique look. Computerised embroidery is used when decorating fleece clothing, blouses, shirts, hats, etc. This technique is perfect for adding graphic characters and any texts to textiles.



THERMAL TRANSFER PRINTING

Flex and flock technology allows you to transfer simple graphics to cotton or polyester. The Flex is a smooth film, the flock is a film with a "short fibre" structure. The graphic design in vector form is cut from the film on a cutting plotter. The prepared film is transferred onto the material using a thermal transfer press.



SUBLIFLOCK

The graphic is applied onto a special foundation, which is then transferred onto the material in a thermal transfer press. Subliflock makes it possible to obtain any tonal transitions and multi-coloured graphics. The surface of the finished decoration is covered with a delicate "short fibre" structure.



SUBLIMATION

The sublimation method involves transferring any graphic onto bright polyester fabrics. The printed pattern is transferred using a thermal transfer press.



REFLECTIVE BELTS

The thermal transfer method makes it possible to apply additional reflective elements on chosen parts of clothing. This solution improves safety and simultaneously increases the functional values of sweatshirts, jackets and trousers, which are used while working in limited visibility conditions.

ORDER PROCESS
STEP BY STEP

1. Choose a product from the LAHTI PRO range or provide us with a different brand's products

LAHTI PRO workwear allows you to create a unique style. It underlines professionalism and increases competitiveness. Discover 1500 excellent products that can be freely combined and create your own original sets best suited to the nature of your work.



ORDER PROCESS
STEP BY STEP

2.

Suggest the location
for the graphic design



Customers usually print on the following graphics:

- on the back — up to 25 cm
- sleeve — approx. 7 cm
- torso — 8-10 cm
- pockets — approx. 10 cm
- trouser legs — up to 20 cm

3.

Write or call us

We need the following to fulfill your order:

- the code of the product we are to decorate
- your company's logo in vector form
- the size and location of the decoration/decorations
- the number of marked products

Before implementing the order, the ordering party receives a computer mock-up showing the text or graphic symbol on the clothing. It serves as the basis for final order acceptance.

Have any doubts? Our specialists are at your disposal. Call or write - we're here with suggestions and help.

* Informational material. Does not constitute an offer within the meaning of Art. 66 of the Civil Code. A detailed quote will be provided by the seller after individual calculation.

ДЕКОРАТИВНАЯ ОТДЕЛКА ОДЕЖДЫ

Мы знаем,
как важна Ваша марка





ВЫШИВКА ИЛИ ПЕЧАТЬ?

Одежда является важным элементом формирования имиджа. Сотрудники являются своего рода визитной карточкой компании, поэтому их аккуратный внешний вид, соответствующий визуальной идентификации предприятия, должен быть предметом заботы каждого работодателя, желающего развивать свой бизнес. Предлагаем комплексные решения, благодаря которым мы сможем закрепить логотипы или рекламные слоганы на почти каждом из предметов одежды. У нас - конкурентоспособные цены, широкий выбор одежды и сжатые сроки выполнения.



ВЫШИВКА

Один из наиблагороднейших способов декоративной отделки текстилей. Она необычайно прочна, надежна и придает одежде исключительный и неповторимый внешний вид. Компьютерная вышивка используется при декоративной отделке поларов, блуз, футболок, кепок и т.п. Эта техника идеальна для переноса на ткани графических знаков и произвольных надписей.

ТЕРМОПЕРЕНОС

Технология флекс и флок позволяет переносить простую графику на хлопчатобумажные и полиэстровые ткани. Флекс - это гладкая пленка, флок - пленка с «мшистой» структурой. Гвафический проект в векторном виде вырезается из пленки на режущем плоттере. Подготовленная пленка втапливается в материал с помощью термотрансферного пресса.

СУБЛИФЛОК

Графика наносится на специальную грунтовку, которая далее втапливается в материал с помощью термотрансферного пресса. Сублифлок позволяет получить любые тональные переходы и многоцветную графику. Готовая, декоративно обработанная поверхность покрыта деликатной, «мшистой» структурой.

СУБЛИМАЦИЯ

Метод сублимации заключается в переносе произвольной графики на светлые полиэстровые нетканые материалы. Напечатанный узор втапливается с помощью термотрансферного пресса.

СВЕТООТРАЖАЮЩИЕ ПОЛОСЫ

Метод термопереноса позволяет наносить дополнительные светоотражающие элементы на выбранные детали одежды. Такое решение повышает безопасность и вместе с тем улучшает пользовательские качества блуз, курток и штанов, используемые во время работы в условиях ограниченной видимости.

ЗАКАЗ
ШАГ ЗА ШАГОМ

1. Выберите продукт из торгового предложения LAHTI PRO, либо доставьте нам продукты другой марки

Рабочая одежда LAHTI PRO позволяет создать неповторимый стиль. Подчеркивает профессионализм и повышает конкурентоспособность. Ознакомьтесь с 1500 доскональными продуктами, которые можно произвольно соединять и создавать свои собственные оригинальные комплекты, наилучшим образом отвечающие особенностям выполняемой работы.



ЗАКАЗ
ШАГ ЗА ШАГОМ

2. Предложите место нанесения графики



Чаще всего клиенты наносят графику на:

- Спине — до 25 см
- Рукаве — ок. 7 см
- Груди — 8-10 см
- Карманах — ок. 10 см
- Штанинах — до 20 см

Напишите либо позвоните 3.

Для реализации заказа нам будет необходимо:

- указать код продукта, на котором мы должны будем выполнить декоративную отделку
- доставить нам логотип компании в векторном виде
- указать размеры и место расположения декоративной отделки/отделок
- указать количество продуктов, которые следует маркировать

Перед началом реализации заказа заказчик получает выполненную компьютерной техникой визуализацию нанесенного на одежду графического знака либо надписи. На этом основании выполняется окончательное одобрение приема заказа.

У Вас возникли сомнения? Наши специалисты в Вашем распоряжении. Позвоните либо напишите - подскажем, поможем.

* Материал имеет информационный характер. Он не является коммерческим предложением в понимании ст. 66 Гражданского кодекса. Подробная оценка стоимости будет представлена торговым представителем после индивидуального расчета.

DEKORATION VON KLEIDUNG

Wir wissen,
wie wichtig Ihre Marke ist





STICKEREI ODER DRUCK?

Kleidung ist ein wichtiges Element beim Aufbau des Image. Die Mitarbeiter sind das Aushängeschild des Unternehmens. Daher sollte ihr gepflegtes Erscheinungsbild, das der visuellen Identität des Unternehmens entspricht, jedem Arbeitgeber, der sein Unternehmen entwickeln möchte, ein Anliegen sein. Wir bieten umfassende Lösungen, durch die wir Logos oder Werbeslogans auf fast jedes Kleidungsstück permanent übertragen. Wir bieten wettbewerbsfähige Preise, eine große Auswahl an Kleidung und kurze Laufzeiten.



STICKEREI

Ist eine der edelsten Arten, Textilien zu dekorieren. Sie ist extrem langlebig, zuverlässig und verleiht Kleidung ein einzigartiges und außergewöhnliches Aussehen. Computerstickerei wird zum Verzieren von Fleecesweatshirts, Sweatshirts, Hemden, Kappen usw. verwendet. Diese Technik ist ideal für die Übertragung von Grafikzeichen und beliebigen Texten auf Textilien.

TERMOTRANSFER

Mit der Flex- und Flock-Technologie können Sie einfache Grafiken auf Baumwolle oder Polyester übertragen. Flex ist eine glatte Folie, Flock ist eine Folie mit "flaumiger" Struktur. Das Grafikdesign in Vektorform wird auf dem Schneideplotter aus der Folie ausgeschnitten. Die vorbereitete Folie wird mit einer Thermotransferpresse in das Material eingeschweißt.

SUBLIFLOCK

Die Grafik wird auf ein spezielles Fundament aufgebracht, das anschließend mit einer Thermotransferpresse eingeschweißt wird. Mit Subliflock können Sie alle tonalen Übergänge und mehrfarbigen Grafiken erhalten. Die Oberfläche des fertigen Dekors ist mit einer feinen Struktur von "Flaum" bedeckt.

SUBLIMATION

Bei der Sublimationsmethode werden beliebige Grafiken auf helle Polyesterstoffe übertragen. Das gedruckte Muster wird mit einer Thermotransferpresse eingeschweißt.

REFLEKTIONSSTREIFEN

Mit der Thermo-Transfermethode können Sie zusätzliche reflektierende Elemente auf ausgewählte Teile der Kleidung auftragen. Eine solche Lösung verbessert die Sicherheit und erhöht gleichzeitig die funktionalen Werte von Sweatshirts, Jacken und Hosen, die beim Arbeiten bei eingeschränkter Sicht verwendet werden.

DIE BESTELLUNG
SCHRITT FÜR SCHRITT

1.

Wählen Sie ein Produkt aus dem Angebot von LAHT I PRO oder liefern Sie Produkte einer anderen Marke an uns

Mit LAHTI PRO Arbeitskleidung können Sie einen einzigartigen Stil kreieren. Betont Professionalität und steigert die Wettbewerbsfähigkeit. Entdecken Sie 1500 hervorragende Produkte, die sich frei kombinieren lassen, und erstellen Sie Ihre eigenen Originalsets, die den Eigenschaften Ihrer Arbeit am besten entsprechen.



DIE BESTELLUNG
SCHRITT FÜR SCHRITT

2.

Schlagen Sie eine Stelle
für die Grafik vor



Kunden drucken normalerweise Grafiken auf:

- Rücken — bis zu 25 cm
- Ärmel — ca. 7 cm
- Brust — 8-10 cm
- Taschen — ca. 10 cm
- Beine — bis 20 cm

3.

Schreiben oder rufen Sie

Für die Bearbeitung der Bestellung benötigen wir:

- Angabe des Produktcodes, auf dem wir verzieren sollen
- Bereitstellung eines Vektor-Firmenlogos
- Angabe der Größe und Lage der Dekoration / Dekorationen
- Angabe der Anzahl der gekennzeichneten Produkte

Vor Beginn der Bestellung erhält der Besteller eine computergestützte Visualisierung mit der Aufschrift oder dem Grafiksymbol auf der Kleidung. Auf dieser Basis erfolgt die endgültige Annahme der Bestellung.

Haben Sie Zweifel? Unsere Experten stehen Ihnen zur Verfügung. Rufen Sie an oder schreiben Sie uns - wir geben Tipps, wir helfen.

* Infomaterial. Stellt kein Angebot im Sinne von Art. 66 des Polnischen Bürgerlichen Gesetzbuches dar. Detaillierte Preise werden vom Verkäufer nach individueller Berechnung vorgestellt.



LEGAL BASIS

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
In accordance with the law of the European Union (Directive 89/686/EEC of 21 December 1989, regarding personal protective equipment, Regulation of EP and of the EU Council 2016/425 of 9 March 2016 on personal protective equipment and repealing Council Directive (**89/686/EEC**) and national provisions on the safety and health and the Labor Code, every employer is obliged to supply their employees with personal protective equipment that will be adequate to protect them against any risks at their respective work stations.

"Personal protective equipment is a unit or equipment intended for wearing or holding by a user for protection against one or more risks that may affect the safety or health of the user."

Personal protective equipment
is a quite a broad concept. It is not only intended for protection of employees on their work stations, but also applies to applications not related to work, such as sports or leisure. It may also include: visibility accessories and protective high-visibility clothing for non-professional use. Before placing personal protective equipment on the market, its manufacturer must demonstrate, as a result of conformity assessment, that it conforms to the essential safety and health requirements, specified in Regulation **2016/425**. One way to demonstrate compliance of personal protective equipment with the essential requirements is proving that it meets the requirements of a standard harmonized with the above-mentioned Directive.

Harmonized standards are European Standards drafted by European standardization organizations. They conform to essential requirements of EU directives and regulations and are the easiest way for the manufacturer or importer to demonstrate presumed conformity of the product with a relevant directive or regulation. In order to confirm that personal protective equipment meets the essential requirements, the manufacturer labels it with a CE mark and issues a declaration of conformity to the PPE Regulation and harmonized standards.

Labor Code

"The employer must not allow an employee to work without personal protective equipment and occupational clothing or footwear intended for a given work station"
(Labor Code, Article 2379(1))

"The employer is obliged to provide employees with personal protective equipment that meet conformity evaluation conditions under separate provisions"
(Labor Code, Article 2376(3))



CATEGORIES OF PERSONAL PROTECTIVE EQUIPMENT

The PPE Regulation divides personal protective equipment into three protection categories, depending on the level of risk that an employee may be exposed to during work:

Risk category	Risk level	Description
I	**Low**	Products in this category provide the basic level of protection against low-risk external factors, the effects of which are superficial, protecting against e.g minor cuts, abrasions, dirt, mild cleaning agents, mild atmospheric agents, contact with hot surfaces not exceeding 50°C, damage to the eyes due to exposure to sunlight (other than during observation of the sun), etc.
II	**Medium**	Products in this category are used for protection in conditions where the level of risk has not been classified as low or high.
III	**High**	Category III includes exclusively the risks that may cause very serious consequences such as death or irreversible damage to health relating to substances and mixtures which are hazardous to health, atmospheres with oxygen deficiency, harmful biological agents, ionizing radiation, high-temperature environments the effects of which are comparable to those of an air temperature of at least 100°C, low-temperature environments the effects of which are comparable to those of an air temperature of –50°C or less, falling from a height, electric shock and live working, drowning, cuts by hand-held chainsaws, high-pressure jets, bullet wounds or knife stabs, harmful noise, etc.

Before selecting proper PPE:

- define the risk level
- specify the type of hazard
- determine the kind of hazard
- select a product with specified protection parameters

Division of PPE into groups:



EYE AND FACE PROTECTION

Equipment for eye and face protection prevents damage to eyes and face caused by mechanical, chemical, biological, and thermal factors as well as harmful radiation.

Equipment for eye and face protection for professional applications should be used wherever the following hazards exist:

- impact (such as spatter)
- liquid droplets and splashes (such as splashes when pouring liquids)
- optical radiation (such as radiation during welding, sun glare)
- melted metals and hot solids (such as molten metal splashes during metallurgical processes)
- dusts and gases (such as coal dust or aerosols of harmful chemicals)
- electric arc (such as produced during live works)

Equipment for eye and face protection for professional use is divided into three categories:



Goggles and safety glasses



Face shields



Welding guards (this category includes shields, goggles, and welding hoods)



LIST OF STANDARDS:

EN 166 – Personal eye protection – Specifications.
The standard specifies requirements for various types of personal protective equipment for eyes.

EN 169 – Personal eye protection – Filters for welding and related techniques. Transmittance requirements and recommended use. This standard provides markings and transmittance requirements for filters intended for the protection of operators performing work that requires welding, arc-air gouging, and plasma cutting.

EN 170 – Personal eye protection – Ultraviolet
– Transmittance requirements and recommended utilization. This standard includes the principles for marking, identification, selection, and use of filters. This standard specifies the transmittance requirements for filters protecting against ultraviolet radiation.

EN 172 - Personal eye protection – Sun glare filters for industrial use This standard specifies the criteria for selection, marking, and transmittance and establishes proper test methods for sun glare filters.

EN 1731 – Personal eye protection – Mesh eye and face protectors. This standard specifies the materials, design method, requirements, test methods and marking of mesh eye and face protectors protecting against mechanical hazards.

EN 175 – Personal protection – Equipment for eye and face protection during welding and allied processes. This standard specifies the requirements regarding safety and test methods for PPE used for eye and face protection against optical radiation and other specific sources of risk or threat usually present during welding, cutting, or allied processes.

GOGGLES AND SAFETY GLASSES

Marking of safety glasses and goggles is used to identify them and ensure the correct selection regarding hazards at the given work station.

Lenses (oculars) and **frames** (mountings) are marked separately. However, if they constitute a whole, all the required marking symbols should be on a frame (mounting).

MARKING OF GOGGLES AND SAFETY GLASSES

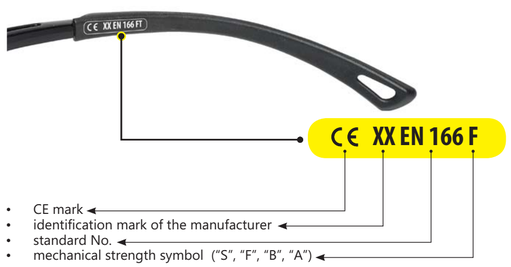


CE 5-3.1 XX 1 FT

MARKING OF LENSES

- CE mark
- filter type (from 2 to 6)
- shade (from 1.2 to 16)
- identification mark of the manufacturer
- optical class (from 1 to 3)
- mechanical strength symbol (“S”, “F”, “B”, “A”)
- additional protection features symbol (“K”, “N”, “R”, “T”)

MARKING OF FRAMES



CE XX EN 166 F

- CE mark
- identification mark of the manufacturer
- standard No.
- mechanical strength symbol (“S”, “F”, “B”, “A”)

Filter type	Radiation protection:
2	ultraviolet filter (UV)
2C or 3	ultraviolet filter (UV), good color recognition
4	infra-red filter (IR)
5	sun glare filter (sunscreen) without any infra-red requirements
6	sun glare filter (sunscreen) with infra-red requirements

Shade	Light transmission factor
1.2	100 – 74.4 %
1.4	74.4 – 58.1%
1.7	58.1 – 43.2%
2.0	43.2 – 29.1%
2.0	43.2 – 29.1%
2.5	29.1 – 17.8%
3.1	17.8 – 8.0%
4.1	8.0 – 3.0%
...	
16	0.000061 – 0.000023%

Optical class:

1 for continuous use
2 for intermittent use
3 for occasional use

Mechanical strength symbols:

S increased impact energy – resistance to impact by a 43 g steel ball with a nominal diameter of 22 mm at the speed of 5.1 m/s
F low impact energy – resistance to impact by a 0.86 g steel ball with a nominal diameter of 6 mm at the speed of 45 m/s
B medium impact energy – resistance to impact by a 0.86 g steel ball with a nominal diameter of 6 mm at the speed of 120 m/s
A high impact energy – resistance to impact by a 0.86 g steel ball with a nominal diameter of 6 mm at the speed of 190 m/s (for face shields)

Fields of use (for goggles)

3 resistant to liquid (in the form of droplets or splashes)
4 resistant to coarse dust particles (larger than 5 µm)
5 resistant to gas and fine dust particles (vapors, fogs, fumes and dusts with particle size smaller than 5 µm)
8 resistant to short circuit electric arc
9 resistant to molten metal and penetration by hot solids

Additional protection feature symbols:

K resistant to surface damage by fine dust particles
N resistant to fogging
R increased reflection coefficient
T resistant to particles in extreme temperatures. Guaranteed resistance interval –5°C – 55°C

EYE AND FACE PROTECTION CLASSES – MECHANICAL INJURIES

PARAMETER	SAFETY GLASSES	GOGGLES	FACE SHIELD
Increased impact resistance (5.1m/s) – mark S	+	+	+
Low-energy impact resistance (45 m/s) – mark F	+	+	+
Medium-energy impact resistance (120 m/s) – mark B	-	+	+
High-energy impact resistance (190 m/s) – mark A	-	-	+

FACE SHIELD

Face shields protect the whole face. Their large surface minimizes the risk of hazardous liquid splatter reaching the inside of the shield. Face shields can be used in combination with glasses (safety or corrective), goggles, and some types of respiration protection.

Shields are mounted directly on the head of a user or a protective helmet. Lenses of such shields are usually made of mass-dyed polycarbonate or polycarbonate coated with layers reflecting thermal radiation, used wherever thermal radiation is particularly high.

MARKING OF FACE SHIELDS



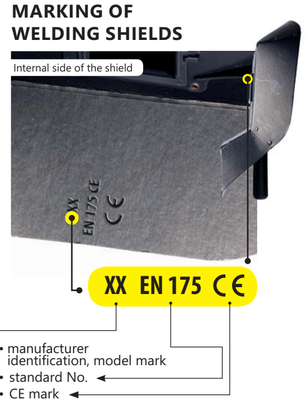
WELDING SHIELDS

Welding helmets and welding hand shields are used during electric arc welding, arc-air gouging, oxycutting, and plasma arc cutting. Welding helmets may be equipped with a single welding filter or two welding filters, one of which is a filter used only for observation, and the other a proper, darker filter used for observation of the welding process.

Welding helmets with automatic welding filters are also used. Such filters dim the field of vision automatically during e.g. electric or plasma arc observation. After the arc is gone (in weld cooling rate), they automatically brighten the field of vision. Welding helmets may be additionally equipped with a ventilation system, supplying air from the back of the welder's head, which significantly reduces the amount of the inhaled welding fumes (dusts and gases) produced during welding or may be equipped with brackets for filtering devices with forced air flow.

The welding hand shield protects the eyes, entire face, and neck of the welder. The basic limitation of the welding hand shield is the necessity to hold it in the hand during welding, which significantly reduces the freedom of movement of the operator and makes it impossible to hold down the welded object, for example.

MARKING OF WELDING SHIELDS



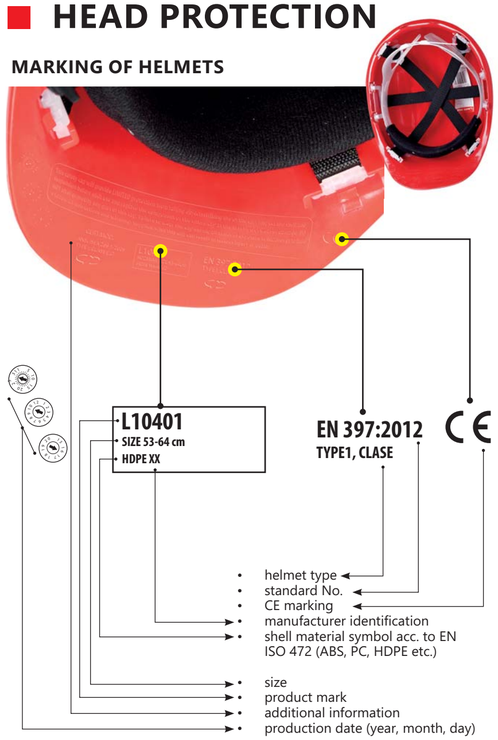
Selection of welding filter conforming to EN169/EN175

PROCESS	CURRENT [A]																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
Covered electrodes	8							9		10		11		12			13			14	
MAG	8								9	10		11			12				13		14
TIG	8				9				10		11			12		13					
MIG heavy metals									9		10			11		12		13	14		
MIG light alloys											10		11		12		13		14		
Arc-air gouging	10											11		12		13		14		15	
PAC										9	10	11		12			13				
PAW	4		5		6		7		8	9		10		11		12					

- **MIG** – welding using a consumable electrode shielded by inert gas
- **MAG** – welding using a consumable electrode shielded by active gas
- **TIG** – welding using a tungsten electrode shielded by inert gas
- **Arc-air gouging** – with the use of a carbon electrode and compressed air for blowing off molten metal
- **PAC** – plasma arc cutting
- **PAW** – plasma arc welding

HEAD PROTECTION

MARKING OF HELMETS



LIST OF STANDARDS

EN 397 – Industrial safety helmets.
This standard specifies the structural requirements and safety-relevant parameters, test methods, and marking requirements for industrial safety helmets. Mandatory and additional requirements for safety-related parameters have been established.

Mandatory requirements

- **shock absorption** (impact energy transmitted to a headform may not exceed 5 kN during free-fall of a 5 kg striker from the height of 1 m)
- **resistance to penetration** (a 3 kg punch from the height of 1 m may not deform the helmet in such a way, so as to touch the headform)
- **flame resistance** (burner flame at an angle of 45 degrees should be at a distance from 50 to 100 mm and come in contact with the top of the shell for 10 s. The helmet shell may not burn and spread fire for longer than 5 s after it is discontinued)

Additional requirements:

- shock absorption in very low temperatures –20°C or –30°C
- shock absorption in a very high temperature +150°C
- electrical insulation – 440 Vac
- longitudinal deformations – LD
- molten metal splashes – **MM**

Helmet durability

Helmet production date is embossed on the internal side of the shell (most often on the brim). It is encoded in the form of three shields. The head of the arrow located in each shield indicates the year, month, and day of production, respectively. The helmet retains full protective properties for 2 years from the date of entry into use, not longer than 3 years from the production date.

HEARING PROTECTION

LIST OF STANDARDS

EN352-1 - Hearing protectors – General requirements – Part 1: Earmuffs. This standard specifies the requirements regarding the structure, design, operation, marking, and information for the user of earmuffs

EN352-2 – Hearing protectors – General requirements – Part 2: Earplugs. This standard specifies the requirements regarding the structure, design, operation, marking, and information for the user of earplugs.

EN352-3 – Hearing protectors – General requirements – Part 3: Earmuffs attached to industrial safety helmets. This standard specifies the requirements regarding the structure, design, operation, marking, and information for the user of earmuffs attached to industrial safety helmets.

Basic parameters of the EN352 standard

- **adjustment** – the possibility to adjust the earmuffs to heads with various sizes is evaluated
- **headband pressure** – the maximum headband pressure is 14 N
- **cushion pressure** – the maximum pressure of the noise reduction cushions is 4,500 Pa
- **resistance to damage** – the product is dropped from the height of 1.5 meter onto a steel plate
- **flammability** – product surface is touched with a rod heated to 650°C ± 20°C for 5 seconds; the surface must not ignite or glow after the withdrawal of the bar.

REQUIREMENTS OF DIRECTIVE 2003/10/EC

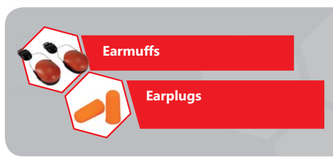
The minimum requirements for the protection of workers from risks related to exposure to noise

Exposure over 8 hours to >= **85 dB**	Exposure over 8 hours to >= **80 dB**	Exposure over 8 hours to > **70 dB** and >= **80 dB**
Hearing protectors mandatory	Hearing protectors made available to the employee	Hearing protectors recommended



Hearing protectors are the simplest and fastest hearing protection method against effects of noise

Hearing protectors are divided into:



ATTENUATION

SNR (Simplified Noise Reduction)
Unit average noise reduction value.

HML Noise reduction value expressed depending on the average frequency

- **H**: Attenuation of high frequencies (high tones)
- **M**: Attenuation of medium frequencies
- **L**: Attenuation of low frequencies (low tones)

NOISE-PROTECTION EARMUFFS

Earmuffs are made of two noise reduction bowls that cover the auricle and pressed tightly against the head with soft sealing cushions, usually filled with plastic foam or liquid. Damping bowls are usually filled with sound absorbing material. Earmuffs may be worn separately or mounted on safety helmets.

EARPLUGS

Earplugs are hearing protectors worn in the external auditory canal. They are intended for tight closing of the auditory canal. Earplugs come in two types: disposable and reusable plugs. They may be shaped by the manufacturer (e.g. made of silicone) or by the user (e.g. made of foam). Earplugs are also available in a headband version. The headband acts as a pressure spring and is used for maintaining the plug inside or at the entry point to the auditory canal. The headband may be worn on the top of the head, under the chin or at the back of the head. The size of the plugs should be carefully selected for every user, since ill-suited plugs may cause discomfort or irritation of the auditory canal.



MARKING OF EARPLUGS

Due to the nature of the product, marking of ear plugs should be fixed on the packaging or dispenser.

- wearing and use instructions
- sizes
- standard No.
- CE mark



EARMUFF MARKING

- identification mark of the manufacturer
- CE mark
- standard No.
- designation front/back, up/down if the arrangement of the bowls is important

RESPIRATORY PROTECTION

MARKING OF HALF MASKS



- CE mark and notified body No.
- positive test result for dolomite dust clogging
- designation of reusability (NR – non-reusable; R – reusable)
- individual product number
- standard No.
- production date
- model designation
- protection class
- name of manufacturer

Filtering half masks are divided by filtering efficiency into three classes: **FFP1, FFP2, and FFP3.**

Filtering efficiency for every class

	FFP1	FFP2	FFP3
Concentration of harmful substances	up to 4xMAC	up to 10xMAC	up to 30xMAC
Filtering efficiency	80%	94%	99%
Leakage	20%	6%	1%
Initial breathing resistance at 95 l/min	<210 Pa	<240 Pa	<300 Pa

LIST OF STANDARDS

EN149:2001 Respiratory protective devices – Filtering half masks to protect against particles – Requirements, testing, marking. This standard applies to filtering half masks classified in protection category III. It specifies the minimum requirements for tests and marking of filtering half masks used as respiratory protection against particles, except for masks used in the case of emergence egress.

MAC – the maximum allowable concentration of a toxic chemical compound or different harmful factor the impact of which on an employee over an 8-hour a day average weekly working time specified in the Labor Code, within the period of their professional activity should not cause any negative changes in their health condition.

USING RESPIRATORY PROTECTION DURING WORK IS REQUIRED WHEN

- the concentration of hazardous substances in the air exceeds the Maximum Allowable Concentration (MAC) for these substances
- the oxygen content in the breathed air is lower than 17% of its composition
- the temperature of the breathed air exceeds the acceptable standard for a temperature, in which a person may work

HAND PROTECTION

Protective gloves are an extremely important element of PPE used for protection of hands against factors that are unwanted and/or harmful to the health and life.
Properly selected protective gloves will not only provide adequate hand protection but also guarantee the maximum comfort of use and a positive impact on the safety and quality of the performed work.

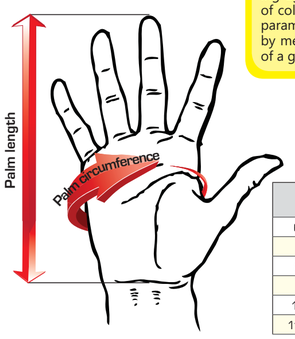




HOW TO CHOOSE PROTECTIVE GLOVES

Size

The table below presents the guidelines of the **EN 420** standard regarding the specific glove sizes assigned to individual palm sizes. Lahti Pro protective gloves provide the user with the optimum fit and guarantee both safety and great comfort of use.



Size	Palm length	Palm circumference
6 [XS]	16.0 cm	to 15.2 cm
7 [S]	17.1 cm	to 17.8 cm
8 [M]	18.2 cm	to 20.3 cm
9 [L]	19.2 cm	to 22.9 cm
10 [XL]	20.4 cm	to 25.4 cm
11 [2XL]	21.5 cm	to 27.9 cm

LIST OF STANDARDS

EN 420
- **Protective gloves** – General requirements and test methods. This standard applies to all the protective gloves, regardless of protection category, to which the gloves belong (hence it applies to protection class I, II, and III). It specifies the general requirements and adequate testing procedures applicable to design and structure of gloves, resistance of their material to water penetration, their safety, comfort of use and their efficiency, marking, and information provided by the manufacturer that apply to all types of protective gloves.

EN 388 – Protection gloves against mechanical risks.
This standard applies to protective gloves belonging to protection category II. It includes the requirements, test methods, marking, and information provided to the user. Glove tests include resistance to mechanical damage, such as abrasion, cutting with a sharp blade, tear and puncture. Mechanical resistance parameters for gloves are specified by means of four digits at the bottom of a graphic symbol.

EN 407 – Protective gloves against thermal risks (heat and/or fire). This standard applies to protective gloves belonging to protection category II. It includes the general requirements, test methods, levels of efficiency within the scope of thermal resistance, marking, and information provided to the user. Glove tests include resistance to thermal risks such as fire or high temperature. Thermal resistance parameters for gloves are specified by means of six digits at the bottom of a graphic symbol.

EN 511 – Protective gloves against cold. This standard applies to protective gloves belonging to protection category II. It includes the requirements for marking and information provided to the user, as well as tests of gloves protecting against convection and conducting of cold up to –50°C. Thermal resistance parameters for the gloves are specified by means of three digits at the bottom of a graphic symbol.

EN ISO 10819 – Mechanical vibration and shock – Hand-arm vibration – Method for the measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand. This standard applies to protective gloves belonging to protection category II. It includes the requirements for marking and information provided to the user, as well as specifies laboratory measurement method and the method for data analysis and preparation of a test report for the vibration transmissibility of gloves with material reducing vibrations that cover palm of the hand and fingers together with the thumb. According to the established test procedure for the gloves suggested for the protection against vibration, two numeric coefficients characterizing the gloves have been determined:
- corrected vibration transmissibility TRM for the M test signal (frequency range 32–200 Hz)
- corrected vibration transmissibility TRH for the H test signal (frequency range 200–250 Hz)

EN 12477 – Protective gloves for welders. This standard applies to protective gloves in protection category II. It includes the requirements on marking and information provided by the manufacturer and tests of welding gloves used in manual metal welding, cutting, and in allied processes. In accordance with the above-mentioned standard, protective gloves for welders are divided into the following groups:
- A type (ensure fulfillment of requirements within the scope of protective qualities at a higher level)
- B type (used for work that requires great skill, e.g. during TIG welding)

EN381-7 – Requirements for chainsaw protective gloves. Requirements concerning protective gloves used to protect the user when operating hand-held chainsaws were specified. Two designs of gloves protecting from chainsaw cutting were defined, i.e. design A and design B. Requirements concerning resistance to chainsaw cutting, to mechanical factors, ergonomics and marking, manufacturer information, and operating instructions were set out. Tips for selecting the appropriate protective glove design were included as well. Protection from chainsaw cutting divides the gloves into four classes depending on the chainsaw chain speed: Class 0 – 16 m/s, Class 1 – 20 m/s, Class 2 – 24 m/s, and Class 3 – 28 m/s.

EN388

abcdef

Parameter	Level 1	Level 2	Level 3	Level 4	Level 5
(**a**) Abrasion resistance (number of cycles)	100	500	2000	8000	-
(**b**) Cut resistance (index)	1.2	2.5	5.0	10.0	20.0
(**c**) Tear resistance [N]	10	25	50	75	-
(**d**) Puncture resistance [N]	20	60	100	150	-

Parameter	Level A	Level B	Level C	Level D	Level E	Level F
(**e**) Cut resistance acc. to ISO 13977 [N]	2	5	10	15	22	30

Parameter	Level P
(**f**) Impact resistance acc. to EN 13594:2015	YES

Parameters a-d acc. to EN 388:2002; parameters a-f acc. to EN 388:2016

EN407

abcdef

Parameter	Level 1	Level 2	Level 3	Level 4
(**a**) Burning behavior				
After-burn time [s]	≤ 20	≤ 10	≤ 3	≤ 2
After-glow time [s]	No requirements	≤ 120	≤ 25	≤ 5
(**b**) Resistance to contact heat				
Contact temperature Tc [°C]	100	250	350	500
Threshold time tt [s]	≥ 15	≥ 15	≥ 15	≥ 15
(**c**) Resistance to convection heat				
Heat transfer index HTI [s]	≥ 4	≥ 7	≥ 10	≥ 18
(**d**) Radiant heat resistance	20	60	100	150
Heat transfer t24 [s]	≥ 7	≥ 20	≥ 50	≥ 95
(**e**) Resistance to fine molten metal splashes				
Number of droplets	≥ 10	≥ 15	≥ 25	≥ 35
(**f**) Resistance to large amount of molten metal				

EN12477

Properties	Requirements	
	A type	B type
Abrasion resistance - level of efficiency (in the number of cycles)	2 (500)	1 (100)
Cut resistance - level of efficiency (I index)	1 (1.2)	1 (1.2)
Tear resistance - level of efficiency (value in N)	2 (25)	1 (10)
Puncture resistance - level of efficiency (value in N)	2 (60)	1 (20)
Burning behavior - level of efficiency	3 (after-burn time ≤ 3 s, after-glow time ≤ 25 s)	2 (after-burn time ≤ 3 s, after-glow time ≤ 25 s)
Contact heat resistance - level of efficiency (contact temp. in °C)	1 (100)	1 (100)
Resistance to fine splashes of molten metal - level of efficiency (number of droplets)	2 (≥7)	no requirements
Dexterity - level of efficiency (rod diameter in mm)	1 (11)	4 (6.5)

EN511

abc

Parameter	Level 1	Level 2	Level 3	Level 4
(**a**) Thermal insulation				
Thermal insulation ITR [m2K/W]	0.10 ≤ ITR < 0.15	0.15 ≤ ITR < 0.22	0.22 ≤ ITR < 0.30	0.30 ≤ ITR
(**b**) Thermal resistance				
Thermal resistance R [m2K/W]	0.025 ≤ R < 0.050	0.050 ≤ R < 0.100	0.100 ≤ R < 0.150	0.150 ≤ R

C – Parameter – resistance to water penetration – 0 or 1



Coating/grip material

"WORKSHOP" GLOVES MADE OF SYNTHETIC LEATHER

Synthetic leather is a material characterized by durability and resistance to wear. Gloves made of synthetic leather typically have numerous reinforcements, cushions protecting against calluses and vibration, and a Velcro wrist strap.

Durability, comfort of use, and extra feel of the held object make the gloves a popular tool in car workshops and therefore are widely known as workshop gloves. However, they are also very popular in the transportation industry, in warehouses, and all kinds of leisure activities.

NATURAL LEATHER GLOVES

The gloves made of natural leather exhibit high resistance to abrasion and tear. They are also distinguished by their good breathability. The provide the maximum comfort of use and good grip of the held object, satisfying even the most discerning users. Due to their wide array of applications, natural leather gloves are used in many sectors, such as construction, transportation, automotive, and agriculture.

LATEX-COATED GLOVES

Latex is most popular coating of protective gloves. The gloves are coated with latex or made of it. They are characterized by high flexibility, also in low temperatures, high resistance to tear, and provide excellent performance even in the most difficult weather conditions. Great versatility of latex, as well as relatively low production cost mean that latex gloves are used at construction sites, in the transportation industry, agriculture, households, gardens and may other domains.

INSULATED GLOVES

Insulated gloves are intended for work in difficult weather conditions, including in low temperatures. Their coating provides them with versatility. A mix of synthetic fibers that don't absorb water and keep warmth inside protect the user against cold, rain, snow, and wind. Insulated gloves are used at construction sites, in the transportation industry, and in coolers.

NITRILE-COATED GLOVES

Nitrile, from which the gloves of the Lahti Pro brand are made, is a synthetic rubber mixture of acrylonitrile and butadiene that contains no latex proteins. The combination of these two components produces a flexible material that is very resistant to abrasion, at the same time providing excellent resistance to unleaded petrol, diesel oil, hexane and paraffin. It also provides ideal protection against oils and greases. Nitrile-coated gloves are often used in the transportation and automotive industry, as well as in agriculture and gardening. They are also an excellent alternative for latex-sensitive people.

POLYURETHANE-COATED GLOVES

Polyurethane is a material with very high flexibility and great resistance to abrasion and tear. Thanks to these properties, it is perfect for production of gloves with a thin and at the same time very resistant coating. Polyurethane gloves provide excellent dexterity and feel of the held object, ensuring great performance especially during works that require high precision. These gloves are often used by mechanics, warehouse operatives, and homeowners.

PVC-COATED GLOVES

PVC-coated gloves are characterized by excellent resistance to greases, oils, fats, mild cleaning agents, as well as water, also providing relatively good performance in low temperatures. They are used in many sectors, including automotive, agriculture, and transportation.



Properties of coating/grip materials

Coating properties	Type of coating/grip					
	Synthetic leather*	Natural leather	Latex	Nitrile	Polyurethane (PU)	PVC
Elasticity	1	1	5	4	5	3
Non-slip properties	1	2	4	5	3	5
Grip (feel of the held object)	5	4	3	4	5	3
Abrasion resistance	5	5	2	5	5	4
Tear resistance	5	5	5	1	5	1
Puncture resistance	5	5	2	5	2	3
Resistance to water and its derivatives	1	2	5	3	3	5
Resistance to greases and oils	2	3	2	5	4	5
Hydrocarbon resistance	1	1	1	4	1	2
Resistance to washing agents and detergents	1	1	5	4	4	5
Resistance to ketone solvents	1	1	4	1	2	1

1 Very low · 2 Low · 3 Medium · 4 High · 5 Very high

*The grip of many models of Lahti Pro synthetic leather gloves has numerous PVC reinforcement inserts, non-slip silicone mesh, etc., which significantly improve glove performance. Information in the table above applies to synthetic leather only and hence does not include properties of additional materials.

Note: The table above constitutes illustrative comparison of the properties characteristic for specific types of coating/grip sections of the gloves. The properties of the coating/grip section may differ, depending on the glove model.



Type of fabric from which the gloves should be made

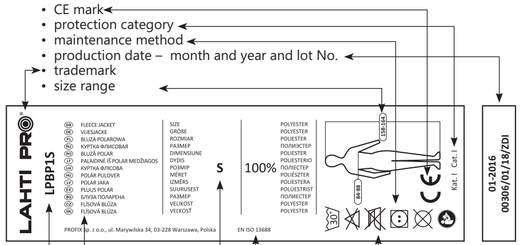
The table below shows the main advantages of the fabrics used in protective gloves:

Type of fabric	Advantages	
Polyester	Can be mixed with cotton to increase the comfort of use	Liquid penetration resistant
	Strong and durable	Fast-drying
	Resistant to abrasion and stretching	Elastic
Cotton	Highly breathable, cool, transfers heat	Absorbs sweat
	Soft to the touch (very comfortable)	No static electricity
	Abrasion resistant	
Nylon	Strong and durable	Liquid penetration resistant
	Very resistant to abrasion and stretching	Elastic
	Resistant to oils, fats, and petrol	
Acrylic	Perfect protection against cold	Abrasion and stretch resistant
	Soft to the touch (very comfortable)	Oil resistant
	Liquid penetration resistant	
Modified synthetic fiber	Highly resistant to cuts	Liquid penetration resistant
	Very resistant to abrasion and stretching	Elastic

BODY PROTECTION

MARKING OF PROTECTIVE CLOTHING

- CE mark
- protection category
- maintenance method
- production date – month and year and lot No.
- trademark
- size range

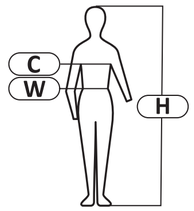


- manufac-turer's mark
- SIZE
- product type
- standard No.

SYMBOL	DESCRIPTION
	Do not wash
	Hand wash
	Wash in 30°C – normal process
	Wash in 30°C – mild process
	Wash in 30°C – very mild process
	Do not iron
	Iron in up to 110°C
	Iron in up to 150°C
	Iron in up to 200°C
	Do not tumble dry
	Can be tumble dried – lower temperature
	Can be tumble dried – normal temperature
	Line dry
	Air dry
	Drip dry
	Do not dry clean
P	Professional dry cleaning in perchloroethylene
	Do not bleach

SIZE

C – chest width
W – waist
H – height



LIST OF STANDARDS

EN ISO 13688 - **Protective clothing** – General requirements. This International Standard specifies the general performance requirements for design, ergonomics, innocuousness, size designation, aging, compatibility, and marking of protective clothing and the information to be supplied by the manufacturer with the protective clothing. This International Standard is only intended to be used in combination with other standards containing requirements for specific protective performance and not on a stand-alone basis.

EN ISO 20471 – High visibility clothing – Test methods and requirements. This standard specifies the requirements for high visibility clothing which is capable of visually signaling user's presence. The high visibility clothing is intended to provide conspicuity of the wearer in any light condition when viewed by operators of vehicles or other mechanized equipment during daylight conditions and under illumination of headlights in the dark. This standard clearly specifies requirements for color and retroreflection as well as for the minimum areas and for the placement of the materials in protective clothing. In addition, it imposes the obligation to inform the user about the maximum number of cycles and the washing method recommended for the clothing in order to maintain the proper level of protection

EN ISO 20471

This standard maintains the classification of clothing into 3 categories based on the minimum surfaces of retroreflecting materials per one m². Category 1 is the lowest category and category 3 presents the highest level of visibility.

	Clothing category 3	Clothing category 2	Clothing category 1
Background material	0.8 m²	0.5 m²	0.14 m²
Retroreflecting material	0.2 m²	0.13 m²	0.10 m²
Material with combined properties	...	...	0.2 m²

WELDING CLOTHING

Being category II Personal Protective Equipment, welding clothing has to be certified in EC type test for conformity with Directive 89/686/EEC.

INTENDED USE

Welding protective clothing is required for welding works including welding, surfacing by welding, soldering, bonding, and thermal cutting of metals and thermoplastics. During welding works, welders are at risk of glare, spatter burns, toxic and carcinogenic welding fumes and dust, electromagnetic field, UV and thermal radiation, electrocution, fire, poisoning, and skin, eye, and lung diseases.

MATERIAL REQUIREMENTS

Welding protective clothing is made mainly from flame-retardant cotton fabrics, fire impregnated with high area density, and from natural leather dressed to make it fire retardant.

DESIGN REQUIREMENTS

Welding protective clothing should meet specific design requirements so as to minimize the risk of hot spatter penetrating the clothing:

- Welding clothing should cover the whole body of the wearer during welding: the upper and lower part of the trunk, neck, shoulders, hands, and legs.
- If the clothing consists of a jacket and trousers, the jacket should overlap the waistband at least 20 cm. The minimum overlap should be maintained during all activities and movement when at work.
- Parts of clothing that act as additional protection such as a neck cover, hood, sleeves, apron and gaiters, and gloves should be designed and used to prevent sparks and metal droplets from penetrating the clothing.
- If clothing has pockets, they should be covered with flaps.
- If trousers have pockets, these should be side pockets only that do not protrude from the lateral seam of the trousers more than 10°.
- Trousers should not have cuffs. The clothing should be designed to prevent electricity penetration for example through metal clips.

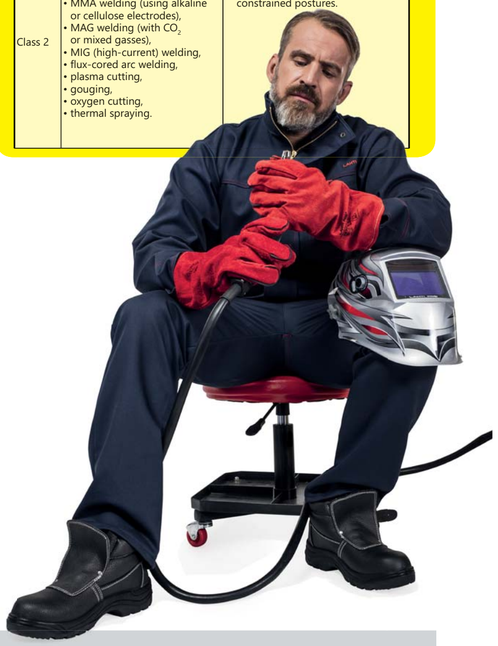
CLASSES

There are two classes of welding clothing with strictly specified electiveness requirements:

Class 1: - protection against less hazardous welding applications and situations causing moderate exposure to spatter and radiant heat.

Class 2: - protection against more hazardous welding applications and situations causing significant exposure to hot factors.
The above-mentioned clothing classes were assigned types of welding application and types of process (type of machinery used) as per EN ISO 11611 to help select the right type of welding protective clothing.

Clothing class	Type of welding process	Type of work
Class 1	Manual welding operations during which small amounts of spatter or droplets of molten metal are formed, e.g.: • gas welding, • TIG welding, • MIG welding, • microplasma welding, • soldering, • spot welding, • rutile-shielded electrode MMA welding	Machine operation such as • oxygen cutting machines, • plasma cutting machines, • resistance welding machines, • thermal spraying, • welding tables.
Class 2	Manual welding operations during which large amounts of spatter or droplets of molten metal are formed such as • MMA welding (using alkaline or cellulose electrodes), • MAG welding (with CO_2 or mixed gasses), • MIG (high-current) welding, • flux-cored arc welding, • plasma cutting, • gouging, • oxygen cutting, • thermal spraying.	Machine operation such as • in enclosed spaces, • when welding/cutting operations require reaching above head height or take place in similar constrained postures.



LIST OF STANDARDS

EN ISO 11611

EN ISO 11611 Protective clothing for use in welding and allied

processes. This standard species the minimum basic requirements and test methods for protective clothing designed to be worn during welding and allied processes with comparable risks. This type of clothing is intended to protect the wearer against spatter of molten metal, metal grinding sparks, short contact time with flame, and radiant heat from an electric arc. It minimizes the possibility of electrical shock caused by a short-term, accidental contact with live electrical conductors at voltages up to approximately 100 V in normal conditions and during welding.
Procedure A1 – surface ignition test method
Procedure A2 – edge ignition test method
A1 + A2 conformity – limited flame spread.

EN ISO 11612

EN ISO 11612 Protective clothing – Clothing to protect against

heat and flame – Minimum performance requirements. The standard specifies requirements for protective clothing designed to protect the wearer's body, except the hands, from heat and flame. The requirements set out in the standard are applicable to a wide variety of protective clothing that should exhibit ignition resistance upon short contact with flame, limit flame spread (A1+A2), and protect from at least one type of heat. Heat protection levels (the higher the number, the better the protection):
• convective heat (B1, B2, B3);
• radiant heat (C1, C2, C3, C4);
molten aluminum splash (D1, D2, D3);
molten iron splash (E1, E2, E3);
• contact heat (F1, F2, F3).

ANTISTATIC CLOTHING

Being class 2 Personal Protective Equipment, antistatic clothing has to be certified in a EC type test for conformity with Directive 89/686/EEC.

INTENDED USE

Antistatic protective clothing is required in hazardous zones (such as in chemical, mining, or oil industry, transport of dangerous substances, gasworks, power plants) and outside hazardous zones (such as the production of electronics to prevent static damage).

MATERIAL REQUIREMENTS

Antistatic protective clothing is made of materials that can dissipate and drain off static charge, which prevents incendiary discharges.

DESIGN REQUIREMENTS

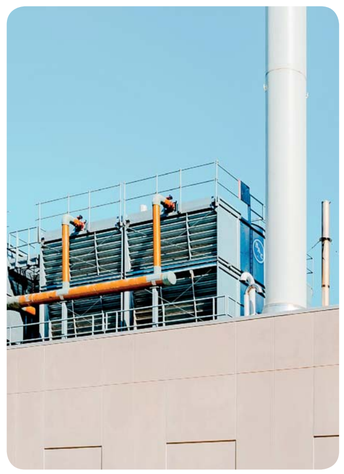
Antistatic clothing should meet specific design requirements to prevent static discharge:

- Clothing should cover the whole body of the wearer, also in motion and a bent position.
- Clothing should fit well and not restrain movement also when buttoned up during use.
- If clothing is made of a set of materials, the antistatic material should be the outer layer.
- Fasteners made of conductive material such as zip fasteners, buttons, or snap fasteners may be used as long as they are covered with antistatic material.
- In materials that contain parallel or interlaced conductive yarn, the distance between conductive threads running in the ame direction should not exceed 10 mm.

EN 1149-5

LIST OF STANDARDS

EN 1149-5 Protective clothing – Electrostatic properties – Part 5: Material and design requirements. The standard specifies methods for testing electrostatic properties of materials and design requirements for electrostatic dissipative protective clothing used as part of a total earthed system, to avoid incendiary discharges. The requirements may not be sufficient in oxygen-enriched flammable atmospheres. Electrostatic dissipative protective clothing is also known as antistatic clothing.



FALL FROM HEIGHT

Work at heights includes work on scaffoldings, building structures, floor systems, chimneys, ladders, or other elevated locations at the height of at least 1.0 m above the ground or floor level.

Work at height does not include work on a surface that is enclosed at all sides up to at least 1.5 m by solid walls (including with windows) or is equipped with other permanent structures or devices protecting employees from falling, regardless of the height at which the operative stays.

Polish and European regulations related to the occupational safety and health oblige employers of operatives who work at height to ensure appropriate fall protection measures.

Falls from height are a frequent cause of accidents, usually serious or fatal. Work at height is classified as a highly hazardous work, posing a threat to life and health of employees, which is why the personal protective equipment used here is classified as category III. During any work at height, it is necessary to implement special precautionary measures due to the high threat to employees' health and life.

In order to be permitted to work at height, the operative:
- had to be acquainted with the occupational risk related to the work performed;
- have the personal protective equipment necessary to perform such tasks;
- has to have a valid medical certificate for work at height;
- has completed an OSH and job position training acquainting them with the specificity of work at height and hazards present at the workplace.

According to the requirements of the harmonized standard PN-EN 365 Personal protective equipment against falls from a height – General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging, the periodic inspection of equipment should be carried out every year after it is first used.



To comply with the regulatory requirements, every kit for work at height must include:

Safety harness (EN 361) – the primary task of the safety harness is to retain the body during a fall and to ensure safe distribution of dynamic forces that occur during retardation. Only complete safety harnesses with shoulder and thigh straps are devices approved for use as fall protection.

Anchorage point (EN 362) – it is the first and key link of the personal fall protection system. Its task is to connect the connecting and shock absorbing component to the load-bearing structure.

Connecting and shock absorbing component (EN 355) – it connects the safety harness connecting clamp to the anchor point. If a fall occurs, the connecting and shock absorbing component must stop the fall and minimize the force created during fall retarding. The functions of the connecting and shock absorbing component may be carried out by: energy absorbers with a lanyard, self-locking devices, fall arresters, and other devices.

LIST OF STANDARDS

(EN362)
The standard specifies requirements and examination methods for single and multiple user anchor devices. It further specifies the requirements concerning marking, operating instructions, and installation tips.

(EN355)
The standard specifies requirements, examination methods, rules of marking, and information to be provided to the user and a way of energy absorber packing.

(EN361)
The standard specifies the requirements, examination methods, rules of marking, information to be provided by the manufacturer, and packaging of the safety harness.

LEG PROTECTION



Providing adequate protection of legs and feet has a decisive influence mainly on the safety at work, but also the comfort of use. Protective footwear is intended for protection of wearer's feet against injuries that could arise during accidents. Protective footwear may protect the foot against mechanical and chemical agents and harmful effect of the heat, cold, or moisture. Protective footwear most often protects against different types of hazards at the same time. Protection level depends mainly on footwear design, materials used, and equipment such as toecaps, anti-puncture inserts, ankle supports, etc. Footwear with no protective features that is intended for work only because of it hygienic features may not be treated as PPE but as occupational footwear only.

LIST OF STANDARDS

EN ISO 20345 – Personal protective equipment – Safety footwear. This standard specifies basic and additional (optional) requirements for safety footwear used for general purpose. It includes, for example, mechanical risks, slip resistance, thermal risks, ergonomic behavior. Safety footwear (SB, S1 – 4) has protective features together with protection of

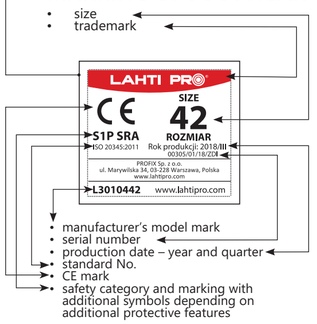
toes by means of toecaps tested for impact of 200 J.

EN ISO 20347 – Personal protective equipment – Occupational footwear. This standard specifies basic and additional requirements for occupational footwear. Special risks are covered by complementary job-related standards (e.g. footwear for firefighters, electrical insulating footwear). Occupational footwear (OB, O1 – 5) - has protective features intended for protection against injuries that may arise during work accident. It is designed for everyday use in places where toe protection by means of toecaps is not required.

FOOTWEAR DESIGN



MARKING OF FOOTWEAR





FOOTWEAR SAFETY CATEGORIES – BASIC REQUIREMENTS

Safety footwear categories (EN ISO 20345)

Protection category	Toecap protecting toes against 200 J impact	Diesel oil resistance	Energy absorption at heel	Antistatic properties	Heel protection	Puncture resistance to 1100 N	Limited water penetration and absorption	Class
SB	✓							I
S1	✓	✓	✓	✓	✓			I
S2	✓	✓	✓	✓	✓		✓	I
S3	✓	✓	✓	✓	✓	✓	✓	I
S4*	✓	✓	✓	✓	✓			* II (single material footwear)
S5*	✓	✓	✓	✓	✓	✓		* II (single material footwear)

Occupational footwear categories (EN ISO 20347)

Protection category	Toecap protecting toes against 200 J impact	Diesel oil resistance	Energy absorption at heel	Antistatic properties	Heel protection	Puncture resistance to 1100 N	Limited water penetration and absorption	Class
OB	x	x						I
O1	x	x	✓	✓	✓			I
O2	x	x	✓	✓	✓		✓	I
O3	x	x	✓	✓	✓	✓	✓	I
O4*	x	x	✓	✓	✓			* II (single material footwear)
O5*	x	x	✓	✓	✓	✓		* II (single material footwear)

FOOTWEAR SAFETY CATEGORIES – ADDITIONAL REQUIREMENTS

Symbol	Additional requirements
P	Resistance to puncture with a force of up to 1100 N
A	Antistatic properties
C	Current conducting properties
I	Electrical insulating properties
HI	Bottom insulation against heat
CI	Bottom insulation against cold
E	Energy absorption at heel
WR	Limited water penetration and absorption of the whole shoe
WRU	Limited water penetration and absorption of the outside surface of the shoe
HRO	Outsole resistance to high temperature in short contact (up to 300ºC ± 5ºC / 1 min ± 1 s)
CR	Cut resistance
M	Protection of the ball of the foot
AN	Heel protection
FO	Outsole resistance to diesel oil
SRA	Slip resistance on ceramic surface covered with sodium lauryl sulphate (SLS)
SRB	Slip resistance on steel surface covered with glycerol
SRC	Slip resistance on both surfaces





ПРАВОВОЕ ОСНОВАНИЕ

Распоряжение Европейского Парламента и Совета (ЕС) 2016/425 от 9 марта 2016 г. По вопросу средств индивидуальной защиты и отмены директивы Совета 89/686/EWG.
Согласно законодательству Европейского Союза (Директива 89/686/EWG от 21 декабря 1989 г., касающаяся средств индивидуальной защиты, Распоряжение ЕП и Совета ЕС 2016/425 от 9 марта 2016 г. По вопросу средств индивидуальной защиты и отмены директивы Совета (**89/686/EWG**), а также положениям национального законодательства, касающимся Безопасности и Гигиены Труда и Трудовому кодексу, обязанностью каждого работодателя является снабжение работников средствами индивидуальной защиты, которые будут соответственно приспособлены для защиты от угроз, возникающих на данных рабочих местах.

„Средство индивидуальной защиты - устройство или оснащение, предусмотренное для ношения или удерживания пользователем с целью обеспечения его защиты от одной или более угроз, которые могут влиять на его безопасность или здоровье"

Средство индивидуальной защиты
Средство индивидуальной защиты - достаточно широкое понятие, используется не только для защиты работников на рабочих местах, но и касается также сфер деятельности, не связанных с работой, таких, например, как спорт или отдых. Примером могут послужить аксессуары, обеспечивающие лучую видимость работника, и защитная сигнализирующая одежда для непрофессионального применения. Производитель средств индивидуальной защиты перед их введением в продажу должен подтвердить их соответствие с основным требованиям в области безопасности и здравоохранения, указанным в Распоряжении **2016/425**. Одним из способов подтверждения соответствия средства индивидуальной защиты основным требованиям является подтверждение того, что данное средство соответствует гармонизированной с указанной директивой норме.

Гармонизированные нормы - это Европейские Нормы, разработанные европейскими нормативными организациями. Они учитывают требования директив и распоряжений ЕС и представляют собой наиболее простой способ подтверждения производителем/импортером изделия предположения о соответствии изделия данной директиве/распоряжению. Подтверждением соответствия средства индивидуальной защиты основным требованиям является маркировка его производителем знаком CE и выдача для него декларации соответствия Распоряжению ЕП и гармонизированным стандартам.

Трудовой кодекс

> ***«Работодатель не может допустить работника к работе без средств индивидуальной защиты, а также рабочей одежды и обуви, предусмотренных для использования на данном рабочем месте»***
>
> *(Трудовой кодекс ст. 2379 §1)*
>
> ***„Работодатель обязан доставлять работнику средства индивидуальной защиты, которые отвечают требованиям относительно оценки соответствия, установленные в отдельных правилах»***
>
> (Трудовой кодекс ст. 2376 § 3)



КАТЕГОРИИ СРЕДСТВ ИНДИВИДУАЛЬНОЙ ЗАЩИТЫ

Распоряжение о средствах индивидуальной защиты разделяет средства индивидуальной защиты на три категории защиты, в зависимости от уровня риска, которому может быть подвергнут работник во время выполнения работы:

Категория защиты	Уровень риска	Описание
I	**Низкий**	Изделия, входящие в данную категорию, обеспечивают базовый уровень защиты от воздействия внешних факторов низкого риска, последствия которых носят поверхностный характер, защищая, к примеру, от незначительных ушибов, ссадин, загрязнений, действия неагрессивных чистящих средств, атмосферных факторов, не представляющих особой опасности, горячих поверхностей с температурой, не превышающей 50 °C; повреждение зрения в результате воздействия солнечного света (не такого, как при взгляде на солнце); и т.п.
II	**Средний**	Изделия, принадлежащие к данной категории, используются для защиты в условиях, в которых уровень риска не классифицирован ни как низкий, ни как высокий.
III	**Высокий**	В категорию III входят исключительно угрозы, которые могут иметь очень серьезные последствия, такие как летальный исход либо не подлежащий восстановлению ущерб здоровью, связанные с опасными для здоровья веществами и смесями, атмосферой с недостаточным содержанием кислорода, вредными биологическими факторами, ионизирующим излучением, средой с высокой температурой, последствия чего сравнимы с воздействием воздуха с температурой, составляющей не ниже 100 °C, средой с низкой температурой, последствия чего сравнимы с воздействием воздуха с температурой, составляющей –50 °C либо ниже, падением с высоты, поражением электрическим током и работами под напряжением, утопанием, порезами переносной цепной пилой, струей под высоким давлением, стреляными либо колотыми ранами, вредным шумом; и т.п.

Перед выбором соответствующего средства индивидуальной защиты следует:

- определить уровень риска
- определить тип опасности
- установить класс опасности
- выбрать изделие с определенными параметрами защиты

Разделение СИЗ на отдельные группы:



ЗАЩИТА ГЛАЗ И ЛИЦА

Средства защиты глаз и лица предотвращают повреждение глаз и лица, вызванные механическими, химическими, биологическими и термическими факторами, а также вредным излучением.

Средства защиты глаз и лица для профессионального применения должны использоваться везде, где имеют место следующие угрозы:

- ушиб (например, осколки твердых тел)
- капли и брызги жидкостей (например, брызги, возникающие во время переливания жидких веществ)
- оптическое излучение (например, излучение, возникающее в процессе сварки, яркий солнечный свет, лучи)
- расплавленные металлы и раскаленные твердые тела (например, брызги расплавленных металлов, образующиеся в ходе металлургических процессов)
- пыль и газы (например, угольная пыль или аэрозоли вредных химических веществ)
- электрическая дуга (например, возникающая во время выполнения работ под напряжением)

Средства защиты глаз и лица для профессионального применения делятся на три категории:



Очки и гуглы



Средства защиты лица

Сварочные щитки (к данной категории относятся щитки, гуглы и сварочные капюшоны)



ПЕРЕЧЕНЬ НОРМ:

EN 166 - Индивидуальная защита глаз. - Требования. Норма устанавливает функциональные требования для средств защиты глаз различного типа.

EN 169 - Средства индивидуальной защиты глаз – Сварочные фильтры для смежных технологий - Требования к коэффициенту пропускания излучения и рекомендуемая сфера применения. В норме указаны обозначения фильтров и требования, касающиеся коэффициентов пропускания излучения для фильтров, предназначенных для защиты органов зрения операторов, выполняющих работы, подразумевающие сварку, электромагнитную поверхностную резку и плазменную резку.

EN 170 - Индивидуальная защита глаз – Фильтры, предохраняющие от ультрафиолетового излучения - Требования относительно коэффициента пропускания излучения и рекомендуемое применение. В норме содержатся правила обозначения, идентификации, подбора и использования фильтров. В норме определены требования к коэффициенту пропускания излучения фильтрами, защищающими от ультрафиолетового излучения.

EN 172 - Средства индивидуальной защиты глаз – Фильтры, предохраняющие от яркого солнечного света, для промышленного использования. В норме определены критерии подбора и обозначения фильтров, а также коэффициенты пропускания излучения, установлены соответствующие методы испытаний фильтров, предохраняющих от ярких солнечных бликов.

EN 1731 - Средства индивидуальной защиты глаз – Сетчатая защита глаз и лица. В норме определены используемые материалы, способ проектирования, требования, методы испытаний и обозначение средств индивидуальной защиты глаз и лица из сетчатых материалов, защищающих от механических повреждений.

EN 175 - Средства индивидуальной защиты – Средства защиты глаз и лица, используемые во время сварки и в смежных процессах. В норме определены требования, касающиеся безопасности и методов испытаний средств индивидуальной защиты, используемых для защиты глаз и лица от вредного оптического излучения и других специфических источников риска или угроз, имеющих место, как правило, во время осуществления сварочных работ, резки или в смежных операциях.

ОЧКИ И ГУГЛЫ

Маркировка очков и защитных гуглов применяется для их идентификации и правильного подбора для соответствующих видов угроз, имеющих место на данном рабочем месте.

Стекла (линзы) и **оправы** (рамки) маркируются отдельно. Если же они пред- ставляют собой единое целое, все требуемые символы маркировки должны находится на оправе (рамке)

МАРКИРОВКА ОЧКОВ И ГУГЛОВ

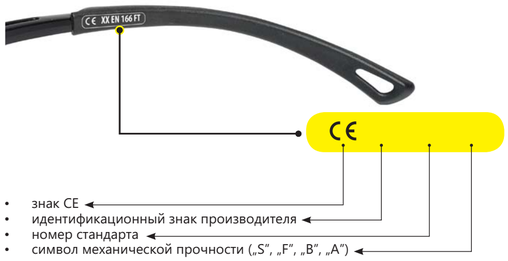


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МАРКИРОВКА СТЕКОЛ

- знак CE
- тип фильтра (от 2 до 6)
- степень затемнения (от 1,2 до 16)
- идентификационный знак производителя
- оптический класс (от 1 до 3)
- символ механической прочности („S", „F", „B", „A")
- символ дополнительных защитных свойств („K", „N", „R", „T")

МАРКИРОВКА ОПРАВ



- знак CE
- идентификационный знак производителя
- номер стандарта
- символ механической прочности („S", „F", „B", „A")

Тип фильтра Защита от излучения:

2	фильтр, защищающий от ультрафиолетового излучения (UV)
2C или 3	фильтр, защищающий от ультрафиолетового излучения (UV), хорошее различение цветов
4	фильтр, защищающий от инфракрасного излучения (IR)
5	антибликовый фильтр (солнцезащитный) без требований, касающихся инфракрасного излучения
6	антибликовый фильтр (солнцезащитный) с требованиями, касающимися инфракрасного излучения

Степень затемнения	Коэффициент механической стойкости:
1.2	100 - 74.4 %
1.4	74.4 - 58.1%
1.7	58.1 - 43.2%
2.0	43.2 - 29.1%
2.0	43.2 - 29.1%
2.5	29.1 - 17.8%
3.1	17.8 - 8.0%
4.1	8.0 - 3.0%
...	
16	0.000061 - 0.000023%

Оптический класс:

- **1** для постоянного использования
- **2** для периодического использования
- **3** для кратковременного использования

Символы механической стойкости:

- **S** повышенная энергия удара - устойчивость к удару стальным шариком с номинальным диаметром 22 мм, массой 43 г со скоростью 5,1 м/с
- **F** низкая энергия удара - устойчивость к удару стальным шариком с номинальным диаметром 6 мм, массой 0,86 г со скоростью 45 м/с
- **B** средняя энергия удара - устойчивость к удару стальным шариком с номинальным диаметром 6 мм, массой 0,86 г со скоростью 120 м/с
- **A** высокая энергия удара - устойчивость к удару стальным шариком с номинальным диаметром 6 мм, массой 0,86 г со скоростью 190 м/с (применяется для изготовления защитных элементов для лица).

Символы сфер применения (применяемые в случае защитных гуглов)

- **3** защита от жидкостей (в виде капель либо брызг)
- **4** защита от крупных частиц пыли (крупнее 5 мкм)
- **5** защита от газов и мелких частиц пыли (пар, туман, дым и пыль с раз-мером частиц менее 5 мкм)
- **8** защита от дуги, образующейся во время короткого замыкания
- **9** защита от расплавленного металла и попадания горячих твердых частиц

Символы дополнительных защитных свойств:

- **K** стойкость к поверхностным повреж-дениям мелкими частицами пыли
- **N** стойкость к помутнению (запотеванию)
- **R** увеличенный коэффициент отражения света
- **T** защита от мелких частиц в условиях экстремальных температур. Гарантиро-ванная стойкость между -5°C - 55°C

КЛАССЫ СРЕДСТВ ЗАЩИТЫ ЛИЦА И ГЛАЗ – МЕХАНИЧЕСКИЕ ТРАВМЫ

ПАРАМЕТР	ОЧКИ	ГУГЛЫ	СРЕДСТВА ЗАЩИТЫ ЛИЦА
Повышенная стойкость к ударам (5,1м/с) – обозн. S	+	+	+
Стойкость к ударам низкой энергии (45 м/с) – обозн. F	+	+	+
Стойкость к ударам средней энергии (120 м/с) – обозн. B	-	+	+
Стойкость к ударам высокой энергии (190 м/с) – обозн. A	-	-	+

СРЕДСТВА ЗАЩИТЫ ЛИЦА

Эти средства защищают все лицо, а большая защищающая площадь минимизирует вероятность проникновения внутрь опасных брызг жидкости. Средства защиты лица можно использовать вместе с очками (защитными либо корректирующими), гуглами и некоторым оснащением, служащим для защиты дыхательной системы

Маски надеваются непосредственно на голову пользователя или устанавливаются на защитную каску. Стекла масок данного типа изготовлены, как правило, из поликарбоната, окрашенного в массе, или поликарбоната с нанесенными покрытиями, отражающими тепловое излучение, используются при особо интенсивном тепловом излучении.

МАРКИРОВКА СРЕДСТВ ЗАЩИТЫ ЛИЦА



- знак, идентифицирующий производителя, обозначение модели
- номер нормы
- оптический класс
- механическая стойкость
- защита от частиц, имеющих большую скорость
- защита от брызг жидкостей
- знак CE

СВАРОЧНЫЕ МАСКИ

Сварочные шлемы и сварочные щитки используются при сварке электрической дугой или электрической поверхностной резке, кислородной резке или плазменной резке. Сварочные шлемы могут быть оснащены одинарным сварочным фильтром или двумя сварочными фильтрами, один из которых является только обзорным фильтром, а второй - основным затемненным фильтром, используемым для контроля процесса сварки.

Также используются сварочные шлемы, оснащенные автоматическими сварочными фильтрами. Данные фильтры автоматически затемняют поле обзора в момент, например, необходимости наблюдения за электрической дугой или струей плазмы, а после затухания дуги (со скоростью остывания шва) самостоятельно просветляются. Кроме этого шлемы могут быть оснащены вентиляционной системой, подающей воздух из пространства за головой сварщика, что существенно ограничивает количество вдыхаемых сварочных дымов (пыли и газов), образующихся во время сварки, или же оснащены держателями, позволяющими установить фильтрационное оборудование с принудительным потоком воздуха.

Сварочный щиток предназначен для защиты глаз, всего лица и шеи сварщика. Основным ограничением использования сварочного щитка является необходимость удерживания его в руках во время сварки, что существенно уменьшает свободу движений работника, к примеру, делая невозможным удерживание свариваемого предмета.

МАРКИРОВКА СРЕДСТВ ЗАЩИТЫ ЛИЦА СВАРЩИКА



- знак, идентифицирующий производителя, обозначение модели
- номер нормы
- знак CE

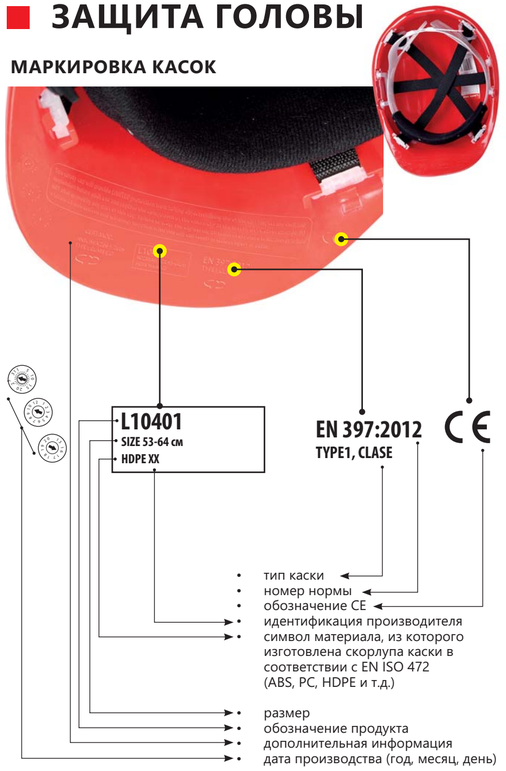
Подбор сварочного фильтра в соответствии с EN169/EN175

ПРОЦЕСС	CURRENT [A]																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
Покрытые электроды	8							9		10		11		12			13			14	
MAG	8								9	10		11		12				13			14
Сварка TIG	8				9				10			11		12		13					
MIG-сварка тяжелых металлов									9		10		11		12		13		14		
MIG-сварка легких сплавов											10		11		12		13		14		
Электровоздушное долбление	10												11		12		13		14		15
PAC										9	10	11		12				13			
PAW	4		5		6		7		8	9		10		11		12					

• **MIG** - сварка плавким электродом в атмосфере инертного газа • **MAG** - сварка плавким электродом в среде химически активного газа • **TIG** - сварка вольфрамовым электродом в среде инертного газа • **Электровоздушное долбление** - с использованием угольного электрода и струи сжатого воздуха, используемого для выдувания расплавленного металла • **PAC** – резка плазменной струей • **PAW** – сварка дугой микроплазмы

ЗАЩИТА ГОЛОВЫ

МАРКИРОВКА КАСОК



- тип каски
- номер нормы
- обозначение CE
- идентификация производителя
- символ материала, из которого изготовлена скорлупа каски в соответствии с EN ISO 472 (ABS, PC, HDPE и т.д.)
- размер
- обозначение продукта
- дополнительная информация
- дата производства (год, месяц, день)

ПЕРЕЧЕНЬ НОРМ

EN 397 - Промышленные защитные каски. Норма устанавливает конструкционные требования и защитные параметры, методы испытаний и требования, касающиеся маркировки защитных касок для промышленного применения. Установлены обязательные и дополнительные требования, касающиеся защитных свойств.

Обязательные требования

- **амортизационная способность** (Энергия удара, передаваемая на макет головы, не должна превышать 5 кН во время падения бойка массой 5 кг с высоты 1 м)
- **пробивная прочность** (Пробойник массой 3 кг, падая с высоты 1 м, не должен деформировать каску до той степени, при которой он бы прикоснулся к макету головы)
- **Стойкость к воздействию пламени** (Пламя горелки под углом 45 градусов к вертикали должно находиться на расстоянии 50 - 100 мм и соприкасаться с верхом скорлупы в течение 10 с. Скорлупа каски не должна гореть и распространять пламя в течение более 5 с после удаления пламени)

Дополнительные требования:

- способность к амортизации при очень низких температурах -20°C или -30°C
- способность к амортизации при очень высоких температурах + 150°C
- электроизоляционная способность - 440 В переменного тока
- боковые деформации - **LD**
- брызги расплавленного металла - **MM**

Срок годности касок

Дата изготовления каски оттиснена на внутренней стороне скорлупы (чаще всего сверху). Она закодирована в виде трех дисков. Наконечник стрелки внутри каждого диска указывает год, месяц и дату изготовления, соответственно. Полный объем защитных свойств каска сохраняет в течение 2-х лет с даты начала его использования, однако не дольше, чем 3 года от даты изготовления.

ЗАЩИТА СЛУХА

ПЕРЕЧЕНЬ НОРМ

EN352-1 - Средства защиты органов слуха - Общие требования - Часть 1: Противошумные наушники. В стандарте указаны требования, касающиеся конструкции, проектирования, работы, маркировки и информации для пользователя противошумных наушников.

EN352-2 - Средства защиты органов слуха - Общие требования - Часть 2: Противошумные вкладки. В норме указаны требования, касающиеся конструкции, проектирования, работы, маркировки и информации для пользователя противошумных вкладышей.

EN352-3 - Средства защиты органов слуха - Общие требования - Часть 3: Противошумные наушники, крепящиеся на промышленной защитной каске. В норме указаны требования, касающиеся конструкции, проектирования, работы, маркировки и информации для пользователя противошумных наушников, предназначенных для крепления к промышленным каскам.

Основные параметры нормы EN352

- **возможность регулировки** - оценивается возможность подгонки наушников к головам разных размеров
- **сила нажима дужки** - максимальная сила нажима дужки составляет 14 Н
- **сила нажима шумопоглощающей чаши** - максимальная сила нажима звукоподавляющих подушек составляет 4500 Па
- **стойкость к повреждениям** - изделие падает с высоты 1,5 метра на стальную пластину
- **воспламеняемость** - стержнем, разогретым до 650°C ± 20°C прикасаются к поверхности изделия, воздействуя на нее 5 секунд; поверхность не должна загореться или тлеть после удаления стержня.

ТРЕБОВАНИЯ ДИРЕКТИВЫ 2003/10/ЕС

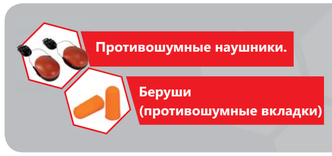
Минимальные требования к защите работников от угроз, связанных с воздействием шума

Подверженность воздействию шума в течение 8 часов на уровне >= **85 дБ**	Подверженность воздействию шума в течение 8 часов на уровне >= **80 дБ**	Подверженность воздействию шума в течение 8 часов на уровне > **70 дБ** и >= **80 дБ**
Средства защиты органов слуха обязательна	Средства защиты органов слуха в распоряжении работника	Средства защиты органов слуха рекомендуются



Средства защиты органов слуха являются самым простым и быстрым способом защиты органов слуха от последствий воздействия шума.

Средства защиты органов слуха делятся на:



ВЕЛИЧИНА ПОДАВЛЕНИЯ ШУМА

SNR (Simplified Noise Reduction)
Единичная, средняя величина подавления.

HML Величина глушения выражается в зависимости от среднего уровня частоты

- **H**: Подавление высоких частот (высокие тона)
- **M**: Подавление средних частот
- **L**: Подавление низких частот (низкие тона)

ПРОТИВОШУМНЫЕ НАУШНИКИ

Шумоподавляющие наушники состоят из двух поглощающих шум чаш, которые охватывают мочки ушей и прилегают к голове мягкими уплотнительными подушками, наполненными обычно пенкой из искусственного материала либо жидкостью. Шумоподавляющие чаши обычно заполнены звукопоглощающим материалом. Противошумные наушники могут быть независимыми или крепится к защитным каскам.

БЕРУШИ

Беруши (противошумные вкладыши) - это средства защиты органов слуха, которые вставляются в наружный слуховой проход. Они предназначены для плотного закрытия слухового прохода. Беруши для ушей делятся на затычки одноразового и многоразового пользования. Они могут иметь форму, приданную производителем (например, силиконовые), или формироваться пользователем (например, пенные). Также существуют беруши в версии с дужкой, которая выполняет функцию прижимной пружины и предназначена для их удержания внутри или у входа в слуховой проход. Дужку можно носить на верхней части головы, под подбородком или сзади головы. Размер вкладок должен быть тщательно подобран для каждого пользователя индивидуально, поскольку неправильно подобранные вкладки могут вызывать чувство дискомфорта или раздражения слухового прохода.





МАРКИРОВКА БЕРУШЕЙ

Учитывая специфику изделия, маркировка берушей должна размещаться на упаковке или дозаторе.

- руководство к надеванию и пользованию
- размер
- номер нормы
- знак CE

МАРКИРОВКА НАУШНИКОВ

- знак, идентифицирующий производителя
- знак CE
- номер нормы
- маркировка передняя/задняя часть, верх/низ, если расположение чаш имеет значение

СРЕДСТВА ЗАЩИТЫ ОРГАНОВ ДЫХАНИЯ

МАРКИРОВКА РЕСПИРАТОРОВ



- знак CE и обозначение сертифицирующего органа
- положительный результат теста на закупорку доломитовой пылью
- обозначение продолжительности использования (NR - одноразовые; R - многоразовые)
- индивидуальный номер изделия
- номер нормы
- дата изготовления
- обозначение модели
- класс защиты
- наименование производителя

Фильтрующие полумаски делятся в зависимости от эффективности фильтрования на три класса: **FFP1, FFP2, FFP3.**

Таблица эффективности фильтрации для каждого отдельного класса

	FFP1	FFP2	FFP3
Концентрация вредных веществ	до 4xMAC	до 10xMAC	до 30xMAC
Эффективность фильтрации	80%	94%	99%
Прохождение	20%	6%	1%
Изначальное сопротивление выдыханию при течении 95 л/мин.	<210 Па	<240 Па	<300 Па

ПЕРЕЧЕНЬ НОРМ

EN149:2001 Оснащение защиты органов дыхательной системы - Фильтрующие полумаски для защиты от частиц - Требования, испытание, маркировка. Применимы к фильтрующим полумаскам, отнесящимся к III категории защиты. Определяют минимальные требования, касающиеся испытаний, а также маркировки фильтрующих полумасок, используемых как оснащение, защищающее от частиц, за исключением респираторов, которые используются в случае утечки.

MAC – предельно допустимые концентрации токсичного химического соединения или концентрация иного вредного фактора, воздействие которого на работника при 8-часовом суточном и среднем недельном режиме работы, установленном в Трудовом кодексе, на протяжении периода его профессиональной активности не должно вызывать отрицательных изменений в его состоянии здоровья.

ИСПОЛЬЗОВАНИЕ СРЕДСТВ ЗАЩИТЫ ДЫХАТЕЛЬНЫХ ПУТЕЙ ВО ВРЕМЯ РАБОТЫ ТРЕБУЕТСЯ, ЕСЛИ:

- концентрация опасных веществ в воздухе превышает Предельно Допустимую Концентрацию (**NDS**) для этих веществ
- содержание кислорода во вдыхаемом воздухе ниже 17% его общего состава
- температура вдыхаемого воздуха превышает допустимые нормы, при которых человек может работать

СРЕДСТВА ЗАЩИТЫ РУК



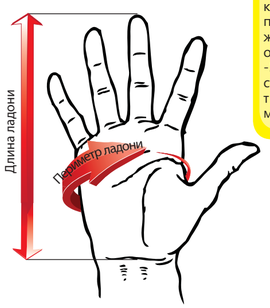
Необычайно важным элементом средств индивидуальной защиты являются защитные перчатки, служащие для защиты кистей от нежелательных либо/и вредных для здоровья и опасных для жизни факторов. Правильно подобранные защитные перчатки не только обеспечивают соответствующую защиту кисти, но также гарантируют максимальное удобство пользования, позитивно влияя на безопасность и качество выполняемой работы.



КРИТЕРИИ ПРАВИЛЬНОГО ВЫБОРА ЗАЩИТНЫХ ПЕРЧАТОК

Размер

В таблице ниже представлены требования нормы **EN 420** в области размеров перчаток, соотносимых с соответствующими размерами ладони. Защитные перчатки марки Lahti Pro обеспечивают пользователю оптимальную подгонку к ладони, гарантируя как безопасность, так и высокий комфорт пользования.



ПЕРЕЧЕНЬ НОРМ

EN 420
- **Защитные перчатки** - Общие требования и методы испытаний. Применимы ко всем защитным перчаткам, независимо от категории защиты, к которой перчатки отнесены (таким образом, касается категории защиты I, II, а также III). Установленные в нем общие требования и соответствующие испытательные процедуры, касающиеся проектирования и конструкции перчаток, стойкости материалов перчаток к проникновению воды, безопасности, удобства пользования и эффективности, маркировки и информации, предоставляемой производителем, которые применимы ко всем защитным перчаткам.

EN 388 - Перчатки, защищающие от механических повреждений рук. Норма применима к защитным перчаткам, отнесенным ко II категории защиты. В ней содержатся требования, методы испытаний, маркировка и информация, доставляемая пользователю. Испытания перчаток включают в себя проверку: стойкости к таким механическим повреждениям, как истирание, порез ножом, разрыв и пробивание. Параметры механической стойкости перчаток описаны с помощью четырех цифр, находящихся внизу пиктограммы.

EN 407 - Перчатки, защищающие от теплового воздействия (высокая температура и/или огонь). Норма применима к защитным перчаткам, отнесенным ко II категории защиты. В ней содержатся общие требования, методы испытания, уровни эффективности в области термостойкости, маркировка, информация, доставляемая пользователю. Перчатки проходят испытания на стойкость к воздействию огня, высокой температуры и т.п., параметры термостойкости перчаток описываются с помощью шести цифр, указанных внизу пиктограммы.

EN 511 - Перчатки, защищающие от холода. Норма применима к защитным перчаткам, отнесенным ко II категории защиты. В ней содержатся требования, касающиеся маркировки, информации, предоставляемой пользователю, а также испытания перчаток, защищающих от конвекции и пропускания холода до -50°C. Параметры термической стойкости перчаток определены с помощью трех цифр, указанных внизу пиктограммы.

Размер перчатки	Длина кисти руки	Контур кисти
6 [XS]	16.0 см	это 15.2 см
7 [S]	17.1 см	это 17.8 см
8 [M]	18.2 см	это 20.3 см
9 [L]	19.2 cm	это 22.9 см
10 [XL]	20.4 см	это 25.4 см
11 [2XL]	21.5 см	это 27.9 см

EN ISO 10819 - Вибрация и механические удары. Вибрация, воздействующая на организм человека через верхние конечности - Измерение и оценка коэффициента передачи вибрации через перчатки на руки оператора. Норма применима к защитным перчаткам, отнесенным ко II категории защиты. В ней содержатся требования, касающихся маркировки, информации, предоставляемой пользователю, а также определен метод лабораторного измерения, способ анализа данных и составления протокола определения коэффициента передачи вибрации через перчатки, изготовленные из материалов, уменьшающих вибрацию, покрывающие кисть и пальцы руки вместе с большим пальцем. В соответствии с установленной процедурой испытаний для перчаток, предлагаемых для защиты от вибраций, определены два характеризующие перчатки числовых коэффициента:
- скорректированный коэффициент передачи вибрации TRM (в диапазоне средних частот) для тестового сигнала M (диапазон частоты 32-200 Гц).
- скорректированный коэффициент передачи вибрации TRH (в диапазоне высоких частот) для тестового сигнала M (диапазон частоты 200-250 Гц).

EN 12477 - Защитные перчатки для сварщиков. Норма применима к защитным перчаткам, отнесенным ко II категории защиты. В ней содержатся требования, касающиеся маркировки, информации, предоставляемой производителем, испытания сварочных перчаток, используемых при ручной сварке металла, резке и в смежных процессах. В соответствии с вышеуказанной нормой сварочные защитные перчатки делятся на следующие группы:
- тип A (обеспечивают соответствие требованиям в области защитных свойств на высшем уровне)
- тип B (используемые для работ, требующих хорошей цепкости и чувствительности пальцев, например, при сварке методом TIG).

EN381-7 - Требования к перчаткам, защищающим от порезов цепной пилой. Установлены требования, касающиеся перчаток, применяемых в качестве защиты во время пользования переносной цепной бензопилой. Определены два вида перчаток, предохраняющих от пореза цепной пилой - образец A и образец Б. Установлены требования, касающиеся стойкости к разрезанию цепной пилой, стойкости к воздействию механических факторов, эргономики и маркировки, информации производителя, инструкции по эксплуатации. Размещены также указания, касающиеся выбора соответствующего образца защитных перчаток. С точки зрения защиты от порезов цепной пилой, перчатки подразделяются на четыре класса в зависимости от скорости движения цепи пилы: Класс 0 - 16 м/с, Класс 1 - 20 м/с, Класс 2 - 24 м/с, Класс 3 - 28 м/с.

EN388

абвгде

Параметр	Уровень 1	Степень 2	Степень 3	Степень 4	Степень 5
(**а**) Стойкость к истиранию (количество циклов)	100	500	2000	8000	-
(**б**) Стойкость к разрезу (индекс)	1.2	2.5	5.0	10.0	20.0
(**в**) Прочность на разрыв [N]	10	25	50	75	-
(**г**) Стойкость к проколу [N]	20	60	100	150	-

Параметр	Уровень А	Уровень Б	Уровень В	Уровень Г	Уровень Д	Уровень Е
(**д**) Стойкость к порезам согл. ISO 13977 [N]	2	5	10	15	22	30

Параметр	Уровень Р
(**е**) Стойкость к истиранию согл. EN 13594:2015	ДА

Параметры а-г согласно EN 388:2002; параметры в-е согласно EN 388:2016

EN407

абвгде

Характеристика	Уровень 1	Степень 2	Степень 3	Степень 4
(**а**) Сохранность во время горения				
Время дальнейшего горения, [с]	≤ 20	≤ 10	≤ 3	≤ 2
Время дальнейшего тления, [с]	Отсутствие требований	≤ 120	≤ 25	≤ 5
(**б**) Стойкость к контактному теплу				
Температура контакта Tc [°C]	100	250	350	500
Граничное время tt [с]	≥ 15	≥ 15	≥ 15	≥ 15
(**в**) Стойкость к конвекционному теплу				
Показатель передачи тепла HTI [с]	≥ 4	≥ 7	≥ 10	≥ 18
(**г**) Стойкость к тепловому излучению	20	60	100	150
Теплопередача t24 [с]	≥ 7	≥ 20	≥ 50	≥ 95
(**д**) Стойкость к воздействию мелких брызг расплавленного металла				
Количество капель	≥ 10	≥ 15	≥ 25	≥ 35
(**е**) Стойкость к воздействию большого количества расплавленного металла				

EN12477

Свойства	Требования	
	Тип А	Тип В
Стойкость к истиранию - уровень эффективности (в количестве циклов)	2 (500)	1 (100)
Стойкость к порезам - уровень эффективности (показатель I)	1 (1.2)	1 (1.2)
Прочность на разрыв - уровень эффективности (величина в N)	2 (25)	1 (10)
Устойчивость к проколу - уровень эффективности (величина в N)	2 (60)	1 (20)
Сохранность во время горения - уровень эффективности	3 (время дальнейшего горения ≤ 3 с, время дальнейшего тления ≤ 25 с)	2 (время дальнейшего горения ≤ 3 с, время дальнейшего тления ≤ 25 с)
Стойкость к контактному теплу - уровень эффективности (темп. контакта при °C)	1 (100)	1 (100)
Стойкость перед мелкими брызгами расплавленного металла - уровень эффективности (количество капель)	2 (≥7)	отсутствие требований
Удобство - уровень эффективности (диаметр прута в мм)	1 (11)	4 (6.5)

EN511

абв

Параметр	Уровень 1	Степень 2	Степень 3	Степень 4
(а) теплоизоляционная способность				
Теплоизоляционная способность ITR [м2К/Вт]	0.10 ≤ ITR < 0.15	0.15 ≤ ITR < 0.22	0.22 ≤ ITR < 0.30	0.30 ≤ ITR
(б) Термическое сопротивление				
Тепловое сопротивление R [м2К/Вт]	0.025 ≤ R < 0.050	0.050 ≤ R < 0.100	0.100 ≤ R < 0.150	0.150 ≤ R

В - Параметр – стойкость к промоканию – 0 или 1



Материал, из которого изготовлено покрытие / ладонная часть перчатки

ПЕРЧАТКИ „ДЛЯ АВТОМАСТЕРСКИХ" ИЗ ИСКУССТВЕННОЙ КОЖИ

Искусственная кожа - материал, отличающийся прочностью и стойкостью к износу. Перчатки, изготовленные из искусственной кожи, отличаются многочисленными усилениями или/и подушками, защищающими от мозолей и вибрации, также имеют регулировочную застежку-липучку.

Благодаря длительному сроку службы, удобству использования и превосходному осязанию удерживаемого в руках предмета, данные перчатки очень часто используются в автомастерских, в связи с чем широко известны как рабочие перчатки для СТО. Кроме этого они пользуются большой популярностью в транспортной промышленности, при выполнении складских работ, а также во всякого рода занятиях во время досуга.

ПЕРЧАТКИ ИЗ НАТУРАЛЬНОЙ КОЖИ

Перчатки, изготовленные из натуральной кожи, характеризуются высокой стойкостью к износу и разрывам. Отличаются также хорошей воздухопроницаемостью. Обеспечивают максимальный комфорт пользования и хороший захват удерживаемого предмета, удовлетворяя требования даже наиболее взыскательного пользователя. Учитывая их богатые практические свойства, кожаные перчатки применяются в многочисленных отраслях, таких как, например, строительство, перевозки, автомобильная промышленность, сельское хозяйство.

ПЕРЧАТКИ, ПОКРЫТЫЕ ЛАТЕКСОМ

Латекс - материал, наиболее часто используемый для изготовления покрытия защитных перчаток. Перчатки, покрытые латексом либо изготовленные из него, отличаются высокой эластичностью, также при низких температурах, высокой стойкостью к разрыву и превосходно проявляют себя даже в самых сложных атмосферных условиях. Универсальность латекса, как и относительно невысокая стоимость его изготовления, означают, что латексные перчатки также могут использоваться на стройке, складе, в транспортной промышленности, сельском хозяйстве, домашнем хозяйстве, в огороде и саду.

УТЕПЛЕННЫЕ ПЕРЧАТКИ

Утепленные перчатки предназначены для работ в сложных атмосферных условиях, также при низких температурах. Их покрытие обеспечивает их универсальность, а смесь синтетических волокон, не впитывающих воду и удерживающих тепло, защищают пользователя от холода, дождя, снега и ветра. Утепленные перчатки применяются, в частности, на стройке, в транспортной промышленности, в холодильных камерах.

ПЕРЧАТКИ, ПОКРЫТЫЕ НИТРИЛОМ

Нитрил, из которого изготовлены перчатки марки Lahti Pro - синтетическая смесь резины, состоящая из акрилонитрила и бутадиена, которая не содержит белков латекса. Комбинация этих двух компонентов создает эластичный и высокостойкий к истиранию материал, обеспечивающий одновременно превосходную устойчивость к не содержащему свинец бензину, дизельному топливу, гексану, парафину. Превосходно защищают также от масел и смазочных материалов. Перчатки, покрытые нитрилом, часто используются в транспортной и автомобильной промышленности, а также в сельском хозяйстве и садоводстве. Также они являются идеальной альтернативой для людей, имеющих аллергию на латекс.

ПЕРЧАТКИ С ПОКРЫТИЕМ ИЗ ПОЛИУРЕТАНА (PU)

Полиуретан - материал, отличающийся очень высокой эластичностью и высокой стойкостью к истиранию и разрыву. Благодаря этим свойствам он идеально подходит для производства перчаток с тонким и одновременно очень прочным покрытием. Полиуретановые перчатки обеспечивают своему пользователю высокую цепкость и превосходное осязание удерживаемого предмета, идеально проявляя себя, в частности, в работах, требующих высокой точности. Данные перчатки часто используются механиками, работниками складов, а также владельцами частных домов и др.

ПЕРЧАТКИ, ПОКРЫТЫЕ ПВХ

Перчатки, покрытые ПВХ, отличаются превосходной стойкостью, в частности, к воздействию смазочных материалов, масел, жиров, неагрессивных чистящих средств, а также воде, относительно хорошо проявляют себя при низких температурах. Они применяются в различных отраслях, в т.ч., например, в автомобильной промышленности, сельском хозяйстве, транспортной промышленности.



Свойства материалов, из которых изготовлены покрытия/ладонная часть перчатки

Свойства покрытия	Тип покрытия/ладонной части перчатки					
	Искусственная кожа*	Натуральная кожа	Латекс	Нитрил	Полиуретан (ПУ)	ПВХ
Растяжимость	1	1	5	4	5	3
Противоскользящие свойства	1	2	4	5	3	5
Цепкость (ощущение удерживаемого предмета)	5	4	3	4	5	3
Стойкость к истиранию	5	5	2	5	5	4
Прочность на разрыв	5	5	5	1	5	1
Стойкость к проколу	5	5	2	5	2	3
Стойкость к воздействию воды и водных растворов	1	2	5	3	3	5
Устойчивость к смазочным материалам и маслам	2	3	2	5	4	5
Стойкость к углеводородам	1	1	1	4	1	2
Устойчивость к стиральным средствам и моющим средствам	1	1	5	4	4	5
Стойкость к воздействию кетоновых растворителей	1	1	4	1	2	1

1 Очень низкая · 2 Низкая · 3 Средняя · 4 Высокая · 5 Очень высокая

*Ладонная часть многих моделей перчаток марки Lahti Pro, изготовленных из синтетической кожи, снабжена множеством усиливающих вставок из ПВХ, не скользящей силиконовой сеткой и т.д., значительно улучшая свойства перчатки. Информация, приведенная в выше представленной таблице, касается только и исключительно искусственной кожи, не учитывает, соответственно, свойств дополнительных материалов.

Примечание: Вышеуказанная таблица имеет ознакомительный характер и представляет перечень свойств, характерных для отдельных типов покрытия/ладонной части перчаток. Свойства покрытия/ладонной части могут отличаться в зависимости от модели перчатки.



Тип трикотажа, из которого должны быть изготовлены перчатки

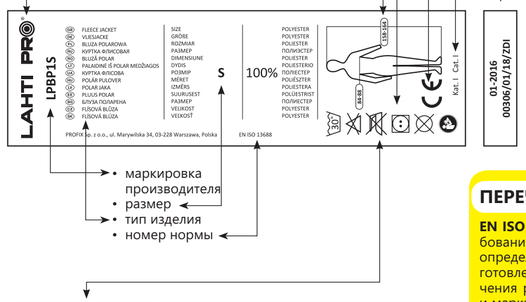
В следующей таблице приведены основные преимущества отдельных трикотажных тканей, используемых для изготовления защитных перчаток:

Тип трикотажа	Преимущества	
Полиэстер	✪ Возможность сочетания с хлопком для повышения комфорта пользования ✪ Крепкий и прочный ✪ Стойкий к истиранию и растяжению	✪ Стойкий к намоканию ✪ Быстро высыхающий ✪ Эластичный
Хлопок	✪ Хорошо дышащий, проветриваемый, не задерживает тепла ✪ Мягкий на ощупь (высокий комфорт пользования) ✪ Стойкий к истиранию	✪ Впитывает пот ✪ Не электризуется
Нейлон	✪ Крепкий и прочный ✪ Высокая стойкость к истиранию и растяжению ✪ Стойкий к воздействию масел, жиров и бензина	✪ Устойчивость к намоканию ✪ Эластичный
Акрил	✪ Досконально защищает от холода ✪ Мягкий на ощупь (высокий комфорт пользования) ✪ Водостойкость	✪ Стойкий к истиранию и растяжению ✪ Стойкость к воздействию масла
Модифицированное синтетическое волокно	✪ Высокая стойкость к прорезам ✪ Необычайно высокая стойкость к истиранию и растяжению	✪ Устойчивость к промоканию ✪ Эластичное

ЗАЩИТА ТЕЛА

МАРКИРОВКА ЗАЩИТНОЙ ОДЕЖДЫ

- знак CE
- категория защиты
- способ ухода
- дата изготовления – месяц и год, серийный номер
- товарный знак
- диапазон размеров

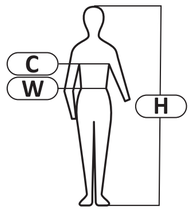


- маркировка производителя
- размер
- тип изделия
- номер нормы

СИМВОЛ	ОПИСАНИЕ
	Не стирать
	Ручная стирка
30°	Стирать при температуре 30°C - нормальная стирка
30°	Стирать при температуре 30°C - деликатная стирка
30°	Стирать при температуре 30°C - очень деликатная стирка
	Не гладить.
	Гладить при температуре до 110°C
	Гладить при температуре до 150°C
	Гладить при температуре до 200°C
	Не сушить в сушке барабанного типа
	Допускается сушка в барабанной сушилке - сушка при более низкой температуре
	Допускается сушка в барабанной сушилке - нормальная температура
	Сушить на бельевой веревке
	Сушить в расправленном виде
	Сушить не выкручивая
	Не подвергать химчистке
P	Профессиональная химчистка в тетрахлорэтилене
	Не хлорировать

РАЗМЕР

C - ширина грудной клетки
W - ширина в поясе
H - высота



ПЕРЕЧЕНЬ НОРМ

EN ISO 13688 - **Защитная одежда** - Общие требования. В настоящей Международной Норме определены общие требования, касающиеся изготовления, эргономики, безопасности, обозначения размера, процесса износа, совместимости и маркировки защитной одежды, а также информации, которую должен предоставить производитель вместе с изделием. Настоящая Международная норма предназначена для использования только совместно с другими нормами, устанавливающими требования для конкретного изготовления, и не должна применяться как самостоятельный базовый документ.

EN ISO 20471 - **Одежда повышенной видимости** - Методы испытаний и требования. В стандарте установлены требования к сигнальной одежде, которая обеспечивает визуальное сигнализирование присутствия пользователя в зоне движения для операторов транспортных средств или других механических устройств, в любых условиях освещения, как при дневном свете, так и в темноте, при освещении фарами автомобиля. Стандарт четко определяет требования к цвету и светоотражению, а также минимальным поверхностям и размещению материалов на защитной одежде, кроме этого устанавливает обязанность информировать пользователя о максимальном количестве циклов и способе стирки, которым может быть подвергнута одежда при сохранении соответствующего уровня защиты.

EN ISO 20471

Стандарт предусматривает разделение одежды на 3 категории на основе минимальных площадей светоотражающих материалов, указанных в м², при этом категория 1 является минимальной категорией, а категория 3 представляет максимальный уровень видимости.

	Одежда категория 3	Одежда категория 2	Одежда категория 1
Материал фона	0.8 м²	0.5 м²	0.14 м²
Светоотражающий материал	0.2 м²	0.13 м²	0.10 м²
Материал с объединенными свойствами	...	...	0.2 м²

ОДЕЖДА ДЛЯ СВАРЩИКА

Защитная одежда для сварщиков как Средство Индивидуальной Защиты категории II должна быть сертифицирована в процессе оценки типа ЕС на соответствие Директиве 89-686EWG

НАЗНАЧЕНИЕ

Защитная сварочная одежда требуется при сварочных работах, включающих в себя сварку, наплавку, пайку, точечную сварку и термическую резку металлов и термопластических масс. Во время выполнения сварочных работ сварщики подвергаются опасности ослепления, ожога горячими брызгами металла, воздействию токсичного и канцерогенного дыма и пыли, электромагнитного поля, ультрафиолетового и термического излучения, поражения током, пожара, отравления, заболевания кожи, глаз и легких.

ТРЕБОВАНИЯ К МАТЕРИАЛАМ

Защитная одежда для сварщиков изготавливается в основном из трудно воспламеняющихся, трикотажных, импрегнированных негорючими веществами с высокой поверхностной массой тканей, а также из натуральной кожи, выделанной с применением негорючих веществ.

КОНСТРУКЦИОННЫЕ ТРЕБОВАНИЯ

Защитная одежда для сварщиков должна соответствовать определенным требованиям, касающимся конструкции, таким образом, чтобы минимизировать риск попадания горячих брызг под одежду:

- Во время выполнения сварочных работ сварочная одежда должна закрывать все тело пользователя, то есть прикрывать верх и низ туловища, шею, плечи, руки и ноги.
- Если применяемая одежда состоит из блузы и штанов, то низ блузы двухчастного изделия должен заходить на верхний край штанов, создавая закладку шириной не менее 20 см. Такая закладка должна сохраняться во время выполнения всех действий и движений во время работы.
- Части одежды, представляющие собой дополнительные элементы защиты, например, накрытие шеи, капюшон, фартук, защита ступней и перчатки должны быть спроектированы таким образом, чтобы предотвратить попадание искр и капель горячего металла под одежду.
- Если защитная одежда спроектирована с карманами, то их отверстия должны быть закрыты клапанами.
- Если в штанах имеются карманы, то это должны быть только боковые карманы, отверстия которых могут оттопыриваться от бокового шва штанов на угол величиной не более 10°.
- Штаны не должны иметь манжет. Одежда должна быть выполнена таким образом, чтобы она не проводила электрического тока снаружи вовнутрь, например, через металлические застежки.

КЛАССЫ

Установлены два класса сварочной одежды со строго определенными требованиями к ее эффективности:

Класс 1: - защита от менее опасных техник сварки и в ситуациях слабого воздействия брызг расплавленного металла и теплового излучения.
Класс 2: - защита от более опасных техник сварки и в ситуациях сильного воздействия горячих факторов.

Одежде вышеуказанных классов приписано, в соответствии с нормой EN ISO 11611 11611, тип применяемого процесса сварки и характеристику действий (тип обслуживаемых машин) выполняемых на данном рабочем месте, что позволяет выполнить подбор соответствующего типа защитной одежды для сварщиков.

Класс одежды	Тип применяемого сварочного процесса	Характеристика действий, выполняемых на данном рабочем месте
Класс 1	Ручные техники сваривания с малой формацией брызг и капель растопленных металлов, например: • газовая сварка, • сварка TIG • сварка MIG, • микроплазменная сварка, • пайка, • точечная сварка, • сварка MMA (электродом с рутиловым покрытием).	Обслуживание машин, например: • машины для кислородной резки, • машины для плазменной резки, • машины контактной сварки, • Машины для термонапыления, • аппараты для цеховой сварки.
Класс 2	Ручные техники сварки с большим количеством брызг и капель, например: • сварка MMA (электродом с обычным или целлюлозным покрытием), • сварка MAG (в среде CO_2 либо других газовых смесей), • сварка MIG (высоким напряжением тока), • сварка самозащитной стержневой проволокой (порошковой), • плазменная резка, • поверхностная резка, • кислородная резка, • термонапыление.	Обслуживание машин, например: • в ограниченном пространстве, • при сварке/резке над головой либо в подобных вынужденных позициях.



ПЕРЕЧЕНЬ НОРМ

EN ISO 11611

EN ISO 11611 Защитная одежда для применения во время сварки и подобных процессов. Норма определяет основные минимальные требования и методы испытаний защитной одежды, предназначенной для сварщиков либо работников, выполняющих подобные действия, либо действия с подобным уровнем рисков. Этот тип одежды предназначен для защиты пользователя от воздействия брызг расплавленного металла, искр, возникающих во время шлифовки металлов, от кратковременного контакта с огнем и тепловым излучением, исходящим от электрической дуги. Одежда также минимизирует возникновение шока от кратковременного, случайного контакта с электрическим проводом, находящимся под напряжением до 100В, в нормальных условиях и во время сварки. Процедура A1 - метод испытания воспламенения поверхности Процедура A2 - метод испытания воспламенения края Выполненные A1 + A2 - ограниченное распространение пламени.

EN ISO 11612

EN ISO 11612 Защитная одежда - Одежда для защиты от от горячих факторов и пламени - Минимальные эксплуатационные требования. Норма определяет требования к одежде, предназначенной для защиты тела пользователя, за исключением рук, от горячих факторов и пламени. В норме представлены требования к широкой группе защитной одежды, которая должна отличаться стойкостью к воспламенению при кратковременном контакте с огнем, ограничивая распространение пламени (A1 + A2) и защищать, по крайней мере, от одного из видов горячих факторов. Уровни эффективности защиты от горячих факторов (большая цифра обозначает высший уровень защиты):

- конвекционное тепло (B1, B2, B3)
- тепловое излучение (C1, C2, C3, C4)
- брызги расплавленного алюминия (D1, D2, D3)
- брызги расплавленного железа (E1, E2, E3)
- контактное тепло (F1, F2, F3)

АНТИЭЛЕКТРОСТАТИЧЕСКАЯ ОДЕЖДА

Защитная антиэлектростатическая одежда, как Средство Индивидуальной Защиты II категории, должна быть сертифицирована в процессе оценки типа ЕС на предмет соответствия Директиве 89/686EWG.

НАЗНАЧЕНИЕ

Ношение защитной антиэлектростатической одежды требуется в зонах угрозы взрыва (например, химическая, горнодобывающая, нефтедобывающая промышленность, транспортировка опасных веществ, газовая промышленность, электростанции и т.п.), а также вне зон угрозы (например, в производстве электронных элементов с целью их защиты от воздействия электростатического разряда).

ТРЕБОВАНИЯ К МАТЕРИАЛАМ

Защитная электростатическая одежда выполнена из материалов, отличающихся способностью к рассеиванию и отводу электростатического заряда, что предотвращает возникновение электростатического разряда, способного вызвать воспламенение.

КОНСТРУКЦИОННЫЕ ТРЕБОВАНИЯ

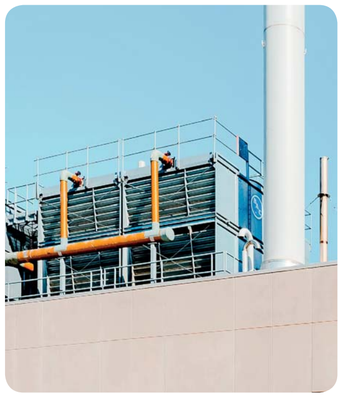
Антиэлектростатическая одежда должна соответствовать установленным требованиям, касающимся конструкции, таким образом, чтобы предотвратить возникновение электростатических разрядов:

- Одежда, во время ее использования, должна закрывать все тело, как во время передвижения, так и во время наклонов.
- Одежда должна быть соответственно подогнана к телу, а также обеспечивать свободу движения в ситуации, если она должна быть постоянно застегнута в ходе использования.
- Если одежда изготовлена из системы материалов, то электростатическая ткань должна составлять ее внешний слой.
- Застежки из электропроводящих материалов, например, застежки-молнии, пуговицы, замки могут быть использованы только при условии, если они покрыты антиэлектростатическим материалом.
- В случае материалов, содержащих антиэлектростатическую пряжу в виде параллельных нитей или сетки, расстояние между электропроводящими нитями в одном направлении не должно превышать 10 мм.

ПЕРЕЧЕНЬ НОРМ

EN 1149-5

EN 1149-5 Защитная одежда - Электростатические свойства - Часть 5: Требования к конструкции и материалам. Норма определяет методы испытания электростатических свойств материалов и конструкционные требования, касающиеся защитной одежды, рассеивающей электростатический разряд, используемой в качестве элемента единой системы заземления, с целью предотвращения возникновения разрядов, могущих привести к воспламенению. Эти требования могут оказаться недостаточными в случае наличия огнеопасной атмосферы, обогащенной кислородом. Одежда, рассеивающая электростатический заряд, называется также антиэлектростатической одеждой.



ЗАЩИТА ОТ ПАДЕНИЯ С ВЫСОТЫ

Работа на высоте означает, в частности, работу на лесах, строительных конструкциях, потолочных перекрытиях, дымоходах, лестницах либо других возвышениях, находящихся на высоте не менее 1,0 м над уровнем окружающей территории, либо над уровнем пола.

К работам на высоте не относятся работы на площадке, независимо от того, на какой высоте находится работник, если она ограждена со всех сторон полными стенками высотой не менее 1,5 м (в том числе с окнами) либо снабжена другими стационарными устройствами или конструкциями, предохраняющими работника от падения с высоты.

Положения польского и европейского законодательства в области безопасности и гигиены труда обязывают работодателей, принимающих на работу специалистов, выполняющих работы на высоте, обеспечивать им соответствующие средства предохранения от падения.

Падение с высоты часто является причиной несчастных случаев, зачастую тяжелых либо смертельных. Работы на высоте относятся к видам особо опасных работ, представляющих опасность для жизни и здоровья работников, поэтому средства индивидуальной защиты, входящие в эту группу, мы причисляем к III категории. Во время выполнения работ на высоте должны предприниматься исключительные меры предосторожности
вследствие высокой степени угрозы здоровью и жизни работников. Для выполнения работ на высоте могут быть допущены исключительно работники, которые:

- ознакомлены с профессиональными рисками, связанными с выполняемой работой
- имеют гарантированные средства индивидуальной защиты, позволяющие выполнять такую работу
- имеют актуальное медицинское освидетельствование, подтверждающее отсутствие противопоказаний для работ на высоте
- прошедшие курс специальной подготовки в области БГТ и инструктаж, ознакомляющий их с спецификой работ на высоте и с угрозами, возникающими на рабочем месте.

В соответствиями с требованиями гармонизированной нормы PN-EN 365 «Средства индивидуального предохранения от падения с высоты. Общие требования, касающиеся инструкции пользования, консервации, периодических техосмотров, ремонтов, маркировки и упаковки», следует выполнять ежегодно, от момента начала использования оснащения.



Для того, чтобы соответствовать требованиям правил, все комплекты, предназначенные для работы на высоте, должны состоять из:

Лямок безопасности (EN 361) - основной задачей лямок является удерживание тела человека во время падения и безопасное разложение динамических сил, сопутствующих препятствованию падению. Только полные лямки безопасности, снабженные ремнями, охватывающими плечи и бедра, являются приспособлениями, допущенными к использованию в качестве средств предохранения от падения.

Точки якорного зацепления (EN 362) - являющейся первым и ключевым звеном системы предохранения от падения. Ее задачей является зацепление соединяюще-амортизирующего подузла с несущей конструкцией.

Соединительно-амортизирующего элемента (EN355) - соединяет застежку зацепления лямок безопасности с пунктом зацепления. В случае, если произойдет падение, амортизирующе-соединительный подузел должен задержать падение и сгладить силу, возникающую во время падения. Функции соединительно-амортизирующего узла могут выполнять: амортизаторы с тросом безопасности, самотормозящие и самозажимающие устройства, а также другие защитные приспособления.

ПЕРЕЧЕНЬ НОРМ

(EN362)
В норме установлены требования и методы испытаний для зацепных якорных устройств, предназначенных для одного и нескольких пользователей. В норме также указаны требования к маркировке, руководства по эксплуатации и рекомендации по установке.

(EN355)
В норме установлены требования , методы испытаний, правила маркировки, указана информация, которую требуется довести к сведению пользователя, а также способ упаковки амортизаторов.

(EN361)
В норме установлены требования , методы испытаний, правила маркировки, указана информация, требуемая от производителя, а также способ упаковки лямок безопасности.

ЗАЩИТА НОГ



Обеспечение соответствующей защиты ног и стоп имеет решающее влияние, прежде всего, на безопасность во время работы, а также на комфорт пользования. Обувь с защитными свойствами предназначена для защиты ступней пользователя от травм, которые можно получить вследствие несчастного случая.Обувь может предохранить ступни от воздействия механических и химических факторов, тепла, холода и влаги. Обувь защищает, как правило, от нескольких видов угроз одновременно. Степень защиты зависит в основном от конструкции обуви, материалов ее изготовления и оснащения такими элементами, как: подноски, уплотнительные стельки, защита щиколотки и т.п.Обувь, не обладающая защитными свойствами, а предназначенная только для использования на рабочем месте вследствие своих гигиенических свойств, не может считаться средством индивидуальной защиты, а только рабочей обувью.

ПЕРЕЧЕНЬ НОРМ

EN ISO 20345 - Средства индивидуальной защиты - Безопасная обувь. В норме определены основные и дополнительные (опция) требования для безопасной обуви, используемой для общих целей. Приняты во внимание, например, механический риск, стойкость к скольжению, термическим угрозам, эргономичные свойства. Безопасная обувь (SB, S1 – 4) - имеет защитные свойства вместе с защитой пальцев стопы с помощью подносков, прочность которых испытывается при ударе с энергией 200 Дж.

EN ISO 20347 - Средства индивидуальной защиты - Профессиональная обувь. В норме определены основные и дополнительные требования к профессиональной обуви. Указания, касающиеся специальных угроз, содержатся во вспомогательных нормах, применимых к обуви для специальных работ (например, обувь для пожарных, электроизоляционная обувь). Профессиональная обувь (OB, O1 – 5) - обладает защитными свойствами, предназначенными для защиты от травм, которые могут возникнуть во время несчастного случая на рабочих местах. Она предназначена для ежедневного использования, когда необходима защита пальцев стопы с помощью подносков.

КОНСТРУКЦИЯ ОБУВИ



МАРКИРОВКА ОБУВИ

КАТЕГОРИИ ЗАЩИТЫ ОБУВИ - ОСНОВНЫЕ ТРЕБОВАНИЯ

Категории безопасной обуви (EN ISO 20345)

Категория защиты	Подносок, предохраняющий пальцы от ударов с энергией 200 Дж	Стойкость к воздействию дизельного топлива	Абсорбция энергии в области пятки	Антиэлектростатические свойства	Встроенный подпятник	Стойкость к проколам с силой до 1100 Н	Ограниченная влагопроницаемость и влагопоглощение воды	Класс
SB	✓				✓			I
S1	✓	✓	✓	✓	✓			I
S2	✓	✓	✓	✓	✓		✓	I
S3	✓	✓	✓	✓	✓	✓	✓	I
S4*	✓	✓	✓	✓	✓			* II (обувь из материала цельной формовки)
S5*	✓	✓	✓	✓	✓	✓		* II (обувь из материала цельной формовки)

Категории профессиональной обуви (EN ISO 20347)

Категория защиты	Подносок, предохраняющий пальцы от ударов с энергией 200 Дж	Стойкость к воздействию дизельного топлива	Абсорбция энергии в области пятки	Антиэлектростатические свойства	Встроенный подпятник	Стойкость к проколам с силой до 1100 Н	Ограниченные влагопроницаемость и поглощение воды	Класс
OB	x	x						I
O1	x	x	✓	✓	✓			I
O2	x	x	✓	✓	✓		✓	I
O3	x	x	✓	✓	✓	✓	✓	I
O4*	x	x	✓	✓	✓			* II (обувь из материала цельной формовки)
O5*	x	x	✓	✓	✓	✓		* II (обувь из материала цельной формовки)



КАТЕГОРИИ ЗАЩИТЫ ОБУВИ - ДОПОЛНИТЕЛЬНЫЕ ТРЕБОВАНИЯ

Символ	Дополнительное требование
P	Стойкость подошвы к прокалыванию с силой 1100 Н
A	Антиэлектростатические свойства
C	Токопроводящие свойства
I	Электроизоляционные свойства
HI	Теплоизоляционные свойства подошвы
CI	Изоляция подошвы от холода
E	Поглощение энергии в области пятки
WR	Ограниченная влагопроницаемость всей обуви
WRU	Ограниченная влагопроницаемость и влагопоглощение верхней части обуви
HRO	Стойкость подошвы к воздействию высокой температуры при кратковременном контакте (до 300ºC±5ºC/ 1мин±1с)
CR	Стойкость к порезам
M	Защита плюсны
AN	Защита щиколотки
FO	Стойкость подошвы к воздействию солярки
SRA	Стойкость к скольжению по керамическому полу, покрытому раствором лаурилсульфата натрия (SLS)
SRB	Стойкость к скольжению по стальному полу, покрытому глицеролом
SRC	Стойкость к скольжению по обоим вышеуказанным полам



RECHTSGRUNDLAGEN

Verordnung (EU) 2016/425 des Europäischen Parlaments und des Rates vom 9. März 2016 über persönliche Schutzausrüstungen und zur Aufhebung der Richtlinie 89/686/EWG des Rates.
In Übereinstimmung mit den Gesetzen der Europäischen Union (Richtlinie 89/686/EWG vom 21. Dezember 1989 in Bezug auf persönliche Schutzausrüstungen, Verordnung (EU) 2016/425 des Europäischen Parlaments und des Rates vom 9. März 2016 über persönliche Schutzausrüstungen und zur Aufhebung der Richtlinie des Rates.(**89/686/EWG**) und den nationalen Rechtsvorschriften im Bereich Arbeitsschutz und Arbeitsgesetzbuch ist es die Pflicht eines jeden Arbeitgebers, seine Angestellten mit persönlicher Schutzausrüstung zu versorgen, die entsprechend für den Schutz vor den auf der gegebenen Arbeitsstelle vorkommenden Gefährdungen angepasst ist.

„Persönliche Schutzausrüstung ist ein Gerät oder eine Ausrüstung, die zum Tragen oder Halten durch den Nutzer vorgesehen ist und dem Schutz vor einer oder mehreren Gefährdungen dient, die Einfluss auf die Sicherheit oder Gesundheit haben können.“

Persönliche Schutzausrüstung
ist ein recht weiter Begriff, denn sie dient nicht nur dem Schutz der Arbeitnehmer am Arbeitsplatz, sondern umfasst ebenfalls die Verwendung bei Aktivitäten, die nicht mit der Arbeit verbunden sind, wie beispielsweise Sport und Freizeit. Weitere Beispiele sind: Ausrüstung, die die Sichtbarkeit sicherstellt, und Schutzkleidung mit intensiver Sichtbarkeit für außerberufliche Nutzung. Hersteller persönlicher Schutzausrüstung sind vor deren Inverkehrbringen dazu verpflichtet, die Übereinstimmung mit den grundlegenden Sicherheits- und Gesundheitsschutzanforderungen nachzuweisen, die in der Verordnung **2016/425** festgelegt sind. Eine der Möglichkeiten zum Nachweis der Übereinstimmung der persönlichen Schutzausrüstung mit den Grundanforderungen ist es zu belegen, dass die Schutzausrüstung die Anforderungen der mit der oben genannten Richtlinie harmonisierten Norm erfüllt.

Bei harmonisierten Normen handelt es sich um Europäische Normen, die durch Europäische Normungsorganisationen erstellt wurden. Sie berücksichtigen die grundlegenden Anforderungen der europäischen Richtlinien und Verordnungen und sind der einfachste Weg zum Nachweis der Konformität des Produkts mit der entsprechenden Richtlinie / Verordnung durch den Hersteller / Importeur des Produkts. Als Bestätigung der Einhaltung der Grundanforderungen durch die persönliche Schutzausrüstung wurd das Produkt durch den Hersteller mit dem CE-Zeichen gekennzeichnet und es wird eine Konformitätserklärung für die Einhaltung der Anforderung der PSA-Verordnung und der harmonisierten Normen erstellt.

„Arbeitgeber dürfen Arbeitnehmer ohne persönliche Schutzausrüstung und Arbeitskleidung und Arbeitsschuhe, deren Verwendung vorgesehen ist für den gegebenen Arbeitsplatz, nicht zur Arbeit zulassen.“

(Arbeitsgesetzbuch Art. 2379 § 1)

„Arbeitgeber sind dazu verpflichtet, Arbeitnehmern persönliche Schutzausrüstung zur Verfügung zu stellen, die die Anforderungen hinsichtlich der Konformität mit den gesonderten Rechtsvorschriften erfüllen.“

(Arbeitsgesetzbuch Art. 2376 § 3)

Polnisches Arbeitsgesetzbuch



KATEGORIEN DER PERSÖNLICHEN SCHUTZAUSRÜSTUNG

Die PSA-Verordnung unterteilt persönliche Schutzausrüstung in drei Kategorien, je nach Risiken, denen der Arbeiter während der Ausführung der Arbeit ausgesetzt sein kann:

Schutzklasse	Risikograd	Beschreibung
I	**Niedrig**	Produkte dieser Kategorie bieten einen grundlegenden Schutz gegen äußere Faktoren mit einem niedrigen Risikograd, deren Auswirkungen oberflächlich sind, und schützen beispielsweise vor kleinen Schnittverletzungen, Abschürfungen, Verschmutzungen, Einwirkungen milder Reinigungsmittel, Witterungsbedingungen und vor dem Kontakt mit heißen Oberflächen mit einer Temperatur, die 50°C nicht überschreitet, sowie Augenschäden durch Sonneneinstrahlung (ausgenommen sind Beschädigungen, die während der Beobachtung der Sonne entstehen) usw.
II	**Mittel**	Produkte dieser Kategorie werden für den Schutz unter Bedingungen eingesetzt, deren Risikograd nicht als niedrig oder hoch klassifiziert wurde.
III	**Hoch**	Kategorie III umfasst nur Gefahren, die sehr schwerwiegende Folgen haben können, wie Tod oder irreversible Gesundheitsschäden und verbunden sind mit Stoffen und Gemischen, die eine Gefahr für die Gesundheit darstellen, einer Atmosphäre mit Sauerstoffmangel, schädlichen biologischen Faktoren, ionisierender Strahlung, einer Umgebung mit hohen Temperaturen, deren Auswirkungen vergleichbar sind mit der Auswirkung von Luft bei einer Temperatur von mindestens 100°C, einer Umgebung mit niedrigen Temperaturen, deren Auswirkungen vergleichbar sind mit der Auswirkung von Luft bei einer Temperatur von -50°C oder niedriger, einem Sturz aus der Höhe, einem Stromschlag und Arbeit an spannungsführenden Teilen, Ertrinken, Schnittverletzungen durch tragbare Kettensägen, Hochdruckdüsen, Schussverletzungen oder Messerstiche, schädlichem Lärm usw.

Vor der Auswahl der entsprechenden persönlichen Schutzausrüstung muss folgendes durchgeführt werden:

- Risikograd muss definiert werden
- Gefährdungsart muss bestimmt werden
- Art der Gefährdung muss festgelegt werden
- Produkt mit den bestimmten Schutzparametern auswählen

Aufteilung der PSA in die einzelnen Gruppen:



AUGEN- UND GESICHTSSCHUTZ

Persönliche Schutzausrüstung für den Schutz der Augen und des Gesichtes schützt vor Augen- und Gesichtsverletzungen, die durch mechanische, chemische und biologische und thermische Faktoren oder durch schädliche Strahlungen verursacht werden.

Persönliche Schutzausrüstung für den Augen- und Gesichtsschutz für die professionelle Anwendung sollte überall dort eingesetzt werden, wo folgende Gefährdungen auftreten:

- Schläge (z. B. Absplitterungen von Festkörpern)
- Tropfen und Spritzer von Flüssigkeiten (z. B. Spritzer, die während dem Umschütten von Flüssigkeiten entstehen)
- optische Strahlung (z. B. Strahlung, die bei Schweißprozessen entsteht, Sonnenblendung).
- Geschmolzene Metalle und heiße Festkörper (z. B. Spritzer von geschmolzenem Metall, die bei Hochofenprozessen entstehen)
- Staub und Gase (z. B. Kohlenstaub oder Aerosole von chemischen Schadstoffen)
- Lichtbogen (z. B. bei der Ausführung von Arbeiten an spannungsführenden Teilen)

Persönliche Schutzausrüstung für den Augen- und Gesichtsschutz für die professionelle Anwendung wird in drei Kategorien unterteilt:



- **Brillen und Googles**
- **Gesichtsschutz**
- **Schweißschutz** (zu dieser Kategorie gehören Schilde, Googles und Schweißschutzhauben)



VERZEICHNIS DER NORMEN:

EN 166 - Persönlicher Augenschutz. – Anforderungen.
Durch die Norm werden die Funktionsanforderungen für verschiedene Arten von persönlichem Augenschutz festgelegt.

EN 169 - Persönlicher Augenschutz – Filter für das Schweißen und Filter für verwandte Techniken - Anforderungen an den Transmissionskoeffizienten und empfohlene Anwendung. In der Norm werden die Kennzeichnungen für Filter und die Anforderungen zu den Transmissionskoeffizienten für die Filter zum Schutz von Nutzer festgelegt, die Arbeiten ausführen, die Schweißarbeiten, Elektro-Luft-Kerbungen und Plasmaschneiden erfordern.

EN 170 - Persönlicher Augenschutz – Ultraviolettschutzfilter - Anforderungen an den Transmissionskoeffizienten und empfohlene Anwendung. In der Norm sind die Prinzipien für die Kennzeichnung, Identifizierung, Auswahl und Nutzung der Filter enthalten. In der Norm werden die Anforderung zum Transmissionskoeffizienten von Ultraviolettschutzfiltern festgelegt.

EN 172 - Persönlicher Augenschutz – Schutzfilter für Sonnenblendungen für den betrieblichen Gebrauch. In der Norm werden die Kriterien für die Auswahl, Kennzeichnung und den Transmissionskoeffizienten bestimmt und die entsprechenden Methoden für die Prüfung der Filter für den Schutz vor Sonnenblendungen festgelegt

EN 1731 - Persönlicher Augenschutz – Augen- und Gesichtsschutzgeräte aus Gewebe. In der Norm werden verwendete Materialien, Entwurfsmethoden, Anforderungen, Prüfmethoden und Kennzeichnungen von persönlichen Augen- und Gesichtsschutzgeräte aus Gewebe für den Schutz vor mechanischen Gefährdungen beschrieben.

EN 175 - Persönlicher Schutz – Geräte für Augen- und Gesichtsschutz beim Schweißen und bei verwandten Verfahren. In der Norm werden die Sicherheitsanforderungen und Prüfmethoden für persönliche Schutzausrüstung für Augen und Gesicht vor schädlichen optischen Strahlungen und anderen spezifischen Risiko- oder Gefährdungsquellen beschrieben, die normalerweise beim Schweißen, Schneiden und verwandten Verfahren auftreten.

BRILLEN UND GOOGLES

Die Kennzeichnung der Brillen und Googles dient der Identifikation und korrekten Auswahl entsprechend zu den Gefährdungen auf dem gegebenen Arbeitsplatz.

Scheiben (Brillengläser) und **Brillenfassungen** (Rahmen) müssen separat gekennzeichnet werden. Falls diese jedoch eine nicht auseinandernehmbare Einheit bilden, müssen alle erforderlichen Kennzeichnungssymbole auf der Fassung (Rahmen) angebracht werden.

KENNZEICHNUNG VON BRILLEN UND GOOGLES

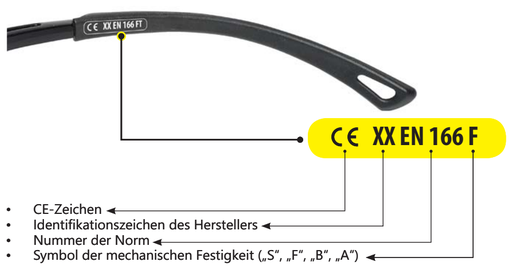


CE 5-3.1 XX 1 FT

KENNZEICHNUNG DER SCHEIBEN

- CE-Zeichen
- Filterart (von 2 bis 6)
- Verdunklungsgrad (von 1,2 bis 16)
- Identifikationszeichen des Herstellers
- Optische Klasse (von 1 bis 3)
- Symbol der mechanischen Festigkeit („S“, „F“, „B“, „A“)
- Symbol der zusätzlichen Schutzeigenschaften („K“, „N“, „R“, „T“)

KENNZEICHNUNG DER FASSUNGEN



- CE-Zeichen
- Identifikationszeichen des Herstellers
- Nummer der Norm
- Symbol der mechanischen Festigkeit („S“, „F“, „B“, „A“)

GEN- UND GESICHTSSCHUTZKLASSE – MECHANISCHE VERLETZUNGEN

PARAMETER	BRILLEN	GOOGLES	GESICHTSSCHUTZ
Erhöhte Stoßbeständigkeit (5,1m/s) – Kennzeichnung S	+	+	+
Beständigkeit gegen Stößen mit niedriger Energie (45m/s) – Kennzeichnung F	+	+	+
Beständigkeit gegen Stößen mit mittlerer Energie (120 m/s) – Kennzeichnung B	-	+	+
Beständigkeit gegen Stößen mit hoher Energie (190 m/s) – Kennzeichnung A	-	-	+

Filterart	Strahlungsschutz:
2	Ultravioletteschutzfilter (UV)
2C oder 3	Ultravioletteschutzfilter (UV), gute Farberkennung
4	Infrarotschutzfilter (IR)
5	Sonnenschutzfilter (Sonnenschutz) ohne Anforderungen in Bezug auf Infrarotstrahlung
6	Sonnenschutzfilter (Sonnenschutz) mit Anforderungen im Bezug auf Infrarotstrahlung

Grad der Verdunkelung	Koeffizient der Lichttransmission
1.2	100 – 74.4 %
1.4	74.4 – 58.1%
1.7	58.1 – 43.2%
2.0	43.2 – 29.1%
2.0	43.2 – 29.1%
2.5	29.1 – 17.8%
3.1	17.8 – 8.0%
4.1	8.0 – 3.0%
...	
16	0.000061 – 0.000023%

Optische Klasse:

1 für ständige Anwendung

2 für gelegentliche Anwendung

3 für kurze Anwendung

Symbole der mechanischen Festigkeit

S Stoß mit erhöhter Energie - beständig gegen Stoß einer Stahlkugel mit einem Nenndurchmesser von 22 mm und einer Masse von 43g bei einer Geschwindigkeit von 5,1m/s

F Stoß mit niedriger Energie - beständig gegen Stoß einer Stahlkugel mit einem Nenndurchmesser von 6 mm und einer Masse von 0,86g bei einer Geschwindigkeit von 45m/s

B Stoß mit mittlerer Energie - beständig gegen Stoß einer Stahlkugel mit einem Nenndurchmesser von 6 mm und einer Masse von 0,86g bei einer Geschwindigkeit von 120m/s

A Stoß mit großer Energie - beständig gegen Stoß einer Stahlkugel mit einem Nenndurchmesser von 6 mm und einer Masse von 0,86g bei einer Geschwindigkeit von 190m/s (angewendet im Fall von Gesichtsschutz).

Symbole der Anwendungsgebiete (angewendet im Fall von Googles)

3 Schutz vor Flüssigkeiten (in Form von Tropfen und Spritzern)

4 Schutz vor groben Staubteilchen (größer als 5 µm)

5 Schutz vor Gasen und feinen Staubteilchen (Dunst, Nebel, Rauch und Staub mit einer Körnchengröße von unter 5 µm)

8 Schutz vor Lichtbögen, die durch Kurzschlüsse entstehen

9 Schutz vor geschmolzenen Metall und dem Durchdringen heißer Festkörper

Symbole der zusätzlichen Schutzeigenschaften

K Oberflächenbeständigkeit gegen Beschädigung durch kleine Staubteilchen

N Beständigkeit gegen Beschlagen

R erhöhter Reflektionsgrad

T Schutz vor Partikeln in extremen Temperaturbedingungen. Beständigkeit wird zwischen -5°C - 55°C sichergestellt

GESICHTSSCHUTZ

Der Gesichtsschutz schützt das Gesicht und die große Schutzfläche reduziert die Wahrscheinlichkeit, dass gefährliche Spritzer in das Innere eindringen. Gesichtsschutz kann ebenfalls zusammen mit Brillen (Schutz- oder Korrekturbrillen), Googles oder einigen Atemschutzgeräten verwendet werden.

Die Schutzausrüstung wird direkt auf dem Kopf des Nutzers oder auf dem Schutzhelm angebracht. Die Scheiben solcher Arten von Abschirmungen bestehen normalerweise aus in der Masse eingefärbten Polycarbon oder aus Polycarbon mit aufgetragenen Beschichtungen, die die Wärmestrahlung reflektieren und dort angewendet werden, wo die Wärmestrahlung besonders hoch ist.

KENNZEICHNUNG VON GESICHTSSCHUTZ



- Identifikationszeichen des Herstellers, Kennzeichnung des Modells
- Nummer der Norm
- Optische Klasse
- Mechanische Festigkeit
- Schutz vor Partikeln mit großen Geschwindigkeiten
- Schutz gegen Spritzer von Flüssigkeiten
- CE-Zeichen

SCHWEISSERSCHUTZ

Schweißhelme und Schweißschilde werden beim Lichtbogenschweißen oder bei der Elektrokerbung, beim Schneidarbeiten mit Sauerstoff oder Plasmastrahl angewendet. Schweißhelme können mit einem einzelnen Schweißfilter oder zwei Schweißfiltern ausgestattet sein, wobei einer der Filter nur als Visierfilter und der zweite Filter ist der eigentliche, dunklere Filter, der für die Ansicht während der Schweißarbeiten verwendet wird.

Es werden ebenfalls Schweißhelme verwendet, die mit automatischen Schweißfiltern ausgestattet sind. Diese Filter verdunkeln das Sichtfeld automatisch, wenn beispielsweise ein Lichtbogen oder Plasmabogen beobachtet wird, und das Sichtfeld wird, nachdem der Bogen verschwindet (im Tempo der Abkühlung der Schweißnähte), automatisch aufgehellt.

Zusätzlich können Schweißhelme mit Belüftungssystemen ausgestattet sein, die Luft aus dem Bereich des Hinterkopfs des Schweißers zuführen, wodurch eine deutliche Reduktion des eingeatmeten Rauchs aus den Schweißarbeiten (Staube und Gase) bewirkt wird, oder sie können mit einer Halterung für die Montage von Filtergeräten mit erzwungenem Luftdurchfluss ausgestattet sein.

Schweißschilde sind für den Schutz der Augen, des gesamten Gesichts und des Halses des Schweißers vorgesehen. Die grundlegende Einschränkung des Schweißschildes ist, dass es während des Schweißens in der Hand gehalten werden muss, was die Bewegungsfreiheit des Arbeiters erheblich eingrenzt, z. B. wird das Halten des geschweißten Gegenstandes verhindert.

KENNZEICHNUNG VON SCHWEISSERSCHUTZ



- Identifikationszeichen des Herstellers, Kennzeichnung des Modells
- Nummer der Norm
- CE-Zeichen

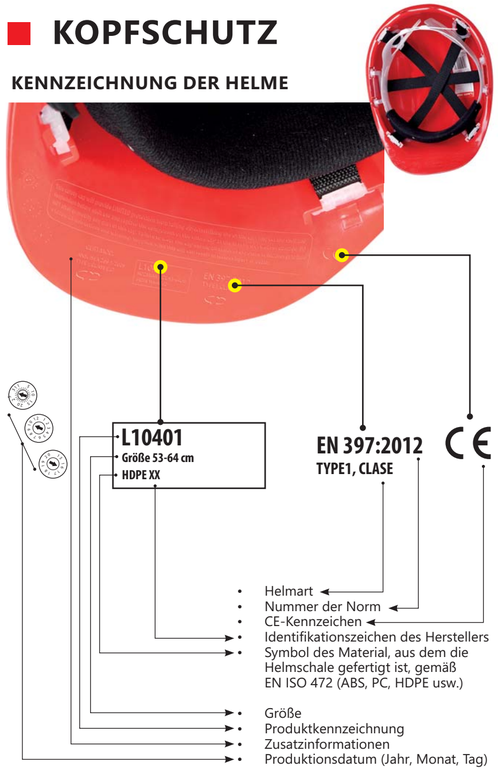
Auswahl des Schweißfilters gemäß EN169/EN175

PROZESS	STROM [A]																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
Elektrode mit Umhüllung	8							9		10		11		12			13			14	
MAG	8								9	10		11			12				13		14
TIG	8				9				10		11			12		13					
MIG Schwermetalle									9		10			11		12		13	14		
MIG Leichtmetalle											10		11		12		13		14		
Elektro-Luft-Kerbung	10											11		12		13		14		15	
PAC										9	10	11		12			13				
PAW	4		5		6		7		8	9		10		11		12					

• **MIG** - Schweißen mit Schmelzelektroden mit Inertgasumhüllung • **MAG** - Schweißen mit Schmelzelektroden mit Aktivgasumhüllung • **TIG** - Wolfram-Inertgas-Schweißen • **Elektro-Luft-Kerbung** - mit Verwendung einer Kohlenelektrode und Druckluft für das Wegblasen des geschmolzenen Metalls • **PAC** – Schneiden mit Plasmastrahl • **PAW** – Schweißen mit Mikroplasmabogen

KOPFSCHUTZ

KENNZEICHNUNG DER HELME



VERZEICHNIS DER NORMEN

EN 397 - Industrieschutzhelme.
Durch die Norm werden die Konstruktionsanforderungen und Schutzparameter, die Prüfmethoden und Anforderungen zur Kennzeichnung der Industrieschutzhelme festgelegt. Es wurden Pflichtanforderungen und zusätzliche Anforderungen für die Schutzparameter festgelegt.

Pflichtanforderungen

- **Dämpfungsvermögen** (Die auf das Kopfmodell geleitete Stoßenergie darf beim Fall Schlagpendels mit einer Masse von 5 kg aus einer Höhe von 1 m nicht 5 kN überschreiten)
- **Durchdringungsfestigkeit** (Ein Durchschlagpendel mit einer Masse von 3 kg aus einer Höhe von 1 m darf keine Verformungen des Helms verursachen, die zu einem Kontaktpunkt mit dem Kopfmodell führen)
- **Flammbeständigkeit** (Der Strahl eines Brenners muss mit einem Winkel von 45 Grad von der Senkrechten und in einer Entfernung von 50 bis 100 mm mit dem Gipfel der Schale 10 Sekunden lang in Berührung gebracht werden. Die Helmschale darf nicht länger als 5 Sekunden nach dem Abstellen der Flamme weiterbrennen und die Flammen verbreiten)

Zusätzliche Anforderungen:

- Dämpfungsvermögen unter sehr niedrigen Temperaturen von -20°C oder -30°C
- Dämpfungsvermögen unter sehr hohen Temperaturen von + 150°C
- elektrische Isolierung - 440 Vac
- Gestaltfestigkeit bei seitlicher Beanspruchung - **LD**
- Schutz gegen Spritzer von geschmolzenem Metall - **MM**

Lebensdauer der Helme

Das Produktionsdatum der Helme wird auf der Schalleninnenseite eingeprägt (normalerweise auf dem Schirm). Es wird mittels drei Scheiben kodiert Die Spitze des Pfeils in der Mitte von jeder der Scheiben zeigt entsprechend folgende Information an: Jahr, Monat und Tag der Produktion. Die vollständigen Schutzeigenschaften des Helms sind 2 Jahre lang ab dem Datum des Nutzungsbeginns gegeben, jedoch nicht länger als 3 Jahre ab dem Produktionsdatum.

GEHÖRSCHUTZ

VERZEICHNIS DER NORMEN

EN352-1 - Gehörschützer - Allgemeine Anforderungen - Teil 1: Kapselgehörschützer Durch die Norm werden die Anforderungen zur Konstruktion, zum Entwurf, zur Funktion, Kennzeichnung und den Informationen für den Nutzer der Kapselgehörschützer festgelegt

EN352-2 - Gehörschützer - Allgemeine Anforderungen - Teil 2: Lärmschutzstöpsel. Durch die Norm werden die Anforderungen zur Konstruktion, zum Entwurf, zur Funktion, Kennzeichnung und den Informationen für den Nutzer der Gehörschutzstöpsel festgelegt.

EN352-3 - Gehörschützer - Allgemeine Anforderungen - Teil 3: An Industrieschutzhelmen befestigte Kapselgehörschützer. Durch die Norm werden die Anforderungen zur Konstruktion, zum Entwurf, zur Funktion, Kennzeichnung und den Informationen für den Nutzer der an Industrieschutzhelmen befestigten Kapselgehörschützer festgelegt.

Allgemeine Parameter der Norm EN352

- **Anpassungsmöglichkeit** - bewertet wird die Möglichkeit zur Anpassung der Kapselgehörschützer an Köpfe mit verschiedenen Größen
- **Andrückkraft des Bügels** - die maximale Andrückkraft des Bügels beträgt 14 N
- **Andrückkraft der Dichtungskissen** - die maximale Andrückkraft der Dichtungskissen beträgt 4500 Pa
- **Beschädigungsbeständigkeit** - das Produkt wird aus einer Höhe von 1,5 Meter auf eine Stahlplatte fallen gelassen
- **Entflammbarkeit** - die Oberfläche des Produkt wird mit einem auf 650°C ± 20°C erhitzten Stab 5 Sekunden berührt; die Oberfläche darf nach dem Entfernen des Stabs nicht entflammen oder glühen.

ANFORDERUNGEN DER RICHTLINIE 2003/10/EG

Mindestanforderungen zum Schutz der Arbeiter vor durch Lärm verursachte Gefahren

Exposition während 8 Stunden auf >= **85 dB**	Exposition während 8 Stunden auf >= **80 dB**	Exposition während 8 Stunden auf > **70 dB** und >= **80 dB**
Gehörschützer sind obligatorisch	Gehörschützer werden zur Verfügung gestellt für Arbeiter	Gehörschützer werden empfohlen



Gehörschützer sind die einfachste und schnellste Weise zum Schutz des Hörapparats vor den Folgen von Lärm.

Gehörschützer werden folgenderweise unterteilt:



DÄMMWERT

SNR (Vereinfachte Rauschunterdrückung) Gemittelter Dämmwert.

HML Schalldämmung in Bezug auf den gemittelten Frequenzbereich.

- **H**: Dämmung hoher Frequenzen (hohe Töne)
- M Dämmung mittlerer Frequenzen
- **L**: Dämmung niedriger Frequenzen (niedrige Töne)

KAPSELGEHÖRSCHÜTZER

Kapselgehörschützer setzen sich aus zwei lärmdämpfenden Kapseln zusammen, die die Ohrmuscheln umschließen und mit den weichen Dichtungskissen, die normalerweise mit Schaumstoff aus Kunststoff oder einer Flüssigkeit gefüllt sind, an den Kopf anliegen. Die Kapseln sind normalerweise mit einem Material ausgefüllt, das lärmdämpfende Eigenschaften hat. Kapselgehörschützer können einzeln oder an Schutzhelme montiert getragen werden.

GEHÖRSCHUTZSTÖPSEL

Gehörschutzstöpsel (Lärmschutzstöpsel) - dies sind Gehörschützer die innen im Gehörgang getragen werden. Sie dienen dem dichten Abschließen des Gehörgangs. Gehörschutzstöpsel werden in Einweg- und Mehrweg-Gehörschutzstöpsel unterteilt. Sie können durch den Hersteller geformt werden (z. B. aus Silikon) oder durch den Nutzer (z. B. aus Schaumstoff). Es gibt ebenfalls Gehörschutzstöpsel mit einem Bügel, wobei der Bügel bei diesen die Funktion einer Andrückfeder hat und die Ohrstöpsel im Innenohr oder am Eingang des Gehörganges halten soll. Der Bügel kann auf dem Kopf, unter dem Kinn oder am Hinterkopf getragen werden. Die Größe der Gehörschutzstöpsel muss für jeden Nutzer sorgfältig ausgewählt werden, da falsch ausgewählte Gehörschutzstöpsel ein Druckgefühl verursachen und den Gehörgang reizen können.





KENNZEICHNUNG DER GEHÖRSCHUTZSTÖPSEL

Aufgrund der Charakteristik des Produkts sollte sich die Kennzeichnung auf der Verpackung oder dem Spender befinden.

- Nutzungs- und Einsetzanweisung
- Größe
- Norm-Nr.
- CE-Zeichen

KENNZEICHNUNG VON KAPSELGEHÖRSCHÜTZERN

- Identifikationszeichen des Herstellers
- CE-Zeichen
- Nummer der Norm
- Kennzeichnung vorne/hinten, oben/unten, falls die Lage der Dämmkissen relevant ist.

ATEMSCHUTZ

KENNZEICHNUNG DER HALBMASKEN



- CE-Zeichen und Kennzeichen der benannten Stelle
- positives Testergebnis für die Prüfung auf Verstopfung durch Dolomitstaub
- Kennzeichnung des Nutzungsfaktors (NR - einmaliger Gebrauch; R - wiederverwendbar)
- Individuelle Produktnummer
- Nummer der Norm
- Produktionsdatum
- Kennzeichnung des Modells
- Schutzklasse
- Name des Herstellers

Filterhalbmasken werden nach deren Filtereigenschaften in drei Klassen unterteilt: **FFP1, FFP2, FFP3.**

Tabelle des Filtrationsgrades für jede der Klassen

	FFP1	FFP2	FFP3
Konzentration der Schadstoffe	bis 4xMAK	bis 10xMAK	bis 30xMAK
Filtrationsgrad	80%	94%	99%
Übergang	20%	6%	1%
Anfänglicher Einatmungswiderstand bei Durchfluss von 95l/Min.	<210 Pa	<240 Pa	<300 Pa

VERZEICHNIS DER NORMEN

EN149:2001 Atemschutzgeräte Filtrierende Halbmasken zum Schutz gegen Partikel - Anforderungen, Prüfung, Kennzeichnung. Gilt für Filterhalbmasken der Schutzkategorie III. Beschreibt die minimalen Anforderungen für die Prüfung und Kennzeichnung von Filterhalbmasken, die als Schutzausrüstung für den Schutz der Atemwege vor Teilchen eingesetzt werden, jedoch unter Ausnahme der Masken, die im Fluchtfall verwendet werden.

MAK – Maximale Konzentration der toxischen, chemischen Verbindung oder der Konzentration eines anderen Gefahrenstoffes, die während 8-Tagesstunden und der durchschnittlichen Wochenarbeitszeit auf den Arbeiter einwirken darf und im Arbeitsgesetzbuch festgelegt wird und der im Zeitraum der beruflichen Tätigkeit keine negativen Auswirkungen auf die Gesundheit haben sollte.

DIE ANWENDUNG VON ATEMSCHUTZGERÄTEN WÄHREND DER ARBEIT IST IN FOLGENDEN FÄLLEN ERFORDERLICH:

- Konzentration der gefährlichen Substanzen in der Luft überschreitet die Maximale Arbeitsplatzkonzentration (**MAK**) für diese Substanzen
- Sauerstoffgehalt der eingeatmeten Luft liegt unter 17%
- Temperatur der eingeatmeten Luft ist nicht konform mit der durch die Norm zulässigen Temperatur, in der eine Person arbeiten kann

HANDSCHUTZ

Ein ausgesprochen wichtiger Teil der
persönlichen Schutzausrüstung
sind die Schutzhandschuhe, die die Hände
vor unerwünschten und/oder für die Gesundheit
und das Leben schädlichen
Faktoren schützen. Korrekt ausgewählte Schutzhandschuhe
schützen nicht nur die Hände entsprechend, sonder
stellen den maximalen Tragekomfort
sicher und haben einen postiven
Einfluss auf die Sicherheit und Qualität der ausgeführten Arbeit.

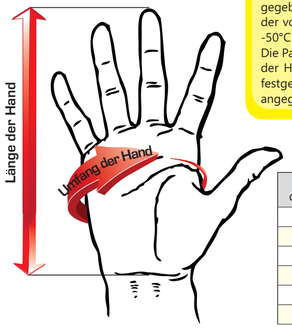




KRITERIEN FÜR DIE KORREKTE AUSWAHL VON SCHUTZHANDSCHUHEN

Größe

Die unten aufgeführte Tabelle gibt die Leitlinien der Norm **EN 420** für die einzelnen Handschuhgrößen an, die den entsprechenden Handabmessungen zugeordnet sind. Die Schutzhandschuhe der Marke Lahti Pro stellen dem Nutzer eine optimale Anpassung an die Hand sicher und garantieren die Sicherheit sowie einen hohen Tragekomfort des Nutzers.



Größe des Handschuhs	Länge der Hand	Umfang der Hand
6 [XS]	16.0 cm	bis 15.2 cm
7 [S]	17.1 cm	bis 17.8 cm
8 [M]	18.2 cm	bis 20.3 cm
9 [L]	19.2 cm	bis 22.9 cm
10 [XL]	20.4 cm	bis 25.4 cm
11 [2XL]	21.5 cm	bis 27.9 cm

VERZEICHNIS DER NORMEN

EN 420
- **Schutzhandschuhe** - Allgemeine Anforderungen und Prüfverfahren. Gilt für alle Schutzhandschuhe, unabhängig der Schutzkategorie, der die Schutzhandschuhe zugeordnet sind (betrifft also die Schutzkategorie I, II und III). In der Norm werden die allgemeinen Anforderungen und die entsprechenden Prüfverfahren festgelegt, die für den Entwurf und die Konstruktion der Handschuhe gelten sowie für die Wasserdurchlässigkeit des Handschuhmaterials, die Unschädlichkeit, den Komfort und die Effizienz sowie die Kennzeichnung und die durch den Hersteller angegebenen Informationen, wobei diese für alle Schutzhandschuhe anwendbar sind.

EN 388 - Schutzhandschuhe gegen mechanische Risiken. Gilt für Schutzhandschuhe der Schutzkategorie II. Enthalten sind die Anforderungen, Prüfmethoden, Kennzeichnungen und für den Nutzer angegebene Informationen. Die Prüfungen der Handschuhe umfassen: Beständigkeit gegen mechanische Gefährdungen, wie Abrieb-, Schnitt-, Riss- und Durchstichfestigkeit. Die Parameter der mechanischen Beständigkeit der Handschuhe werden mittels vier Ziffern festgelegt, die unten auf dem Piktogramm angegeben sind.

EN 407 - Schutzhandschuhe gegen thermische Risigen (Hitze und/oder Feuer). Gilt für Schutzhandschuhe der Schutzkategorie II. In der Norm sind die allgemeinen Anforderungen, Prüfmethoden, Effizienzstufen für die thermische Beständigkeit, Kennzeichnungen und für den Nutzer angegebene Informationen festgelegt. Die Prüfung der Schutzhandschuhe umfasst die Beständigkeit gegen thermische Risiken, wie: Feuer, Hitze, usw. Die Parameter der thermischen Beständigkeit der Handschuhe werden mittels sechs Ziffern festgelegt, die unten auf dem Piktogramm angegeben sind.

EN 511 - Schutzhandschuhe gegen Kälte. Gilt für Schutzhandschuhe der Schutzkategorie II. In der Norm sind die Anforderungen für die Kennzeichnung, die für den Nutzer angegebenen Informationen und die Prüfung der vor Konvektion und Kälteleitfähigkeit bis -50°C schützenden Handschuhe angegeben. Die Parameter der thermischen Beständigkeit der Handschuhe werden mittels drei Ziffern festgelegt, die unten auf dem Piktogramm angegeben sind.

EN ISO 10819 - Mechanische Schwingungen und Stöße. – Hand-Arm-Schwingungen - Messung und Bewertung der Schwingungsübertragung von Handschuhen in der Handfläche. Gilt für Schutzhandschuhe der Schutzkategorie II. In der Norm sind die Anforderungen für die Kennzeichnung und die für den Nutzer angegebenen Informationen angegeben und die Methode für die Laborprüfung wird festgelegt sowie die Art der Datenanalyse und die Art der Erstellung des Prüfprotokolls für den Koeffizienten der Schwingungsübertragung für die Schutzhandschuhe mit schwingungsdämpfendem Material, das die Handfläche und die Finger der Hand samt dem Daumen umfasst. Entsprechend der festgelegten Prüfprozedur für Handschuhe, die für den Schutz vor Schwingungen angeboten werden, werden zwei charakteristische Koeffizienten der Handschuhe bemessen:
- Korrigierte Schwingungsübertragung TRM für das Prüfsignal M (Frequenzspektrum 32-200 Hz)
- Korrigierte Schwingungsübertragung TRH für das Prüfsignal H (Frequenzspektrum 200 - 250 Hz)

EN 12477 - Schutzhandschuhe für Schweißer. Gilt für Schutzhandschuhe der Schutzkategorie II. In der Norm sind die Anforderungen angegeben zur Kennzeichnung, zu den durch den Hersteller angegebenen Informationen und den Prüfungen der Schweißerschutzhandschuhe, die für das Handschweißen von Metallen, das Schneiden und verwandte Verfahren verwendet werden. In Übereinstimmung mit der oben genannten Norm werden Schweißerschutzhandschuhe in die folgenden Gruppen unterteilt:
- Ausführung A (stellen die Einhaltung der Anforderungen im Bereich der Schutzeigenschaften auf einer höheren Stufe sicher)
- Ausführung B (werden für Arbeiten eingesetzt, die eine hohe Fingerwertigkeit erfordern, z. B. TIG-Schweißen).

EN381-7 - Anforderungen an Schutzhandschuhe für Kettensägen. In der Norm werden die Anforderungen für Schutzhandschuhe, die für den Schutz von Benutzer von handgeführten Kettensägen verwendet werden, festgelegt. Es werden zwei Muster für Schutzhandschuhe für Kettensägen definiert - Muster A und Muster B. Es werden Anforderungen bezüglich der Beständigkeit gegen den Durchschnitt mit einer Kettensäge bestimmt sowie Anforderungen für die Beständigkeit auf mechanische Faktoren, die Ergonomie und die Kennzeichnung, die Informationen des Herstellers und die Nutzungsanweisungen. Es wurden ebenfalls Ratschläge zur Auswahl des entsprechenden Schutzhandschuhmusters angegeben. Die Handschuhe werden entsprechend dem Schutz vor dem Durchschnitt einer Kettensäge in vier Klassen unterteilt, wobei dies je nach Geschwindigkeit der Kettensäge erfolgt: Klasse 0 - 16 m/s, Klasse 1- 20 m/s, Klasse 2- 24 m/s, Klasse 3- 28 m/s.

EN388

abcdef

Parameter	Klasse 1	Klasse 2	Klasse 3	Klasse 4	Klasse 5
(**a**) Abriebfestigkeit (Anzahl der Umdrehungen)	100	500	2000	8000	-
(**b**) Schnittfestigkeit (Faktor)	1.2	2.5	5.0	10.0	20.0
(**c**) Rißfestigkeit [N]	10	25	50	75	-
(**d**) Durchstichfestigkeit [N]	20	60	100	150	-

Parameter	Klasse A	Klasse B	Klasse C	Klasse D	Klasse E	Klasse F
(**e**) Schnittfestigkeit gemäß ISO 13977 [N]	2	5	10	15	22	30

Parameter	Klasse P
(**f**) Stoßfestigkeit gemäß EN 13594:2015	JA

Parameter a-d gemäß EN 388:2002; Parameter a-f gemäß EN 388:2016

EN407

abcdef

Parameter	Klasse 1	Klasse 2	Klasse 3	Klasse 4
(**a**) Brennverhalten				
Nachbrennzeit [s]	≤ 20	≤ 10	≤ 3	≤ 2
Nachglühzeit [s]	Keine Anforderungen	≤ 120	≤ 25	≤ 5
(**b**) Beständigkeit gegen Kontaktwärme				
Kontakttemperatur Tc [°C]	100	250	350	500
Schwellenzeit tt [s]	≥ 15	≥ 15	≥ 15	≥ 15
(**c**) Schutz vor Konvektionswärme				
Wärmeübergangsindex HTI [s]	≥ 4	≥ 7	≥ 10	≥ 18
(**d**) Schutz vor Strahlungswärme	20	60	100	150
Wärmeübertragung t24 [s]	≥ 7	≥ 20	≥ 50	≥ 95
(**e**) Schutz vor kleinen Spritzern von geschmolzenem Metall				
Anzahl der Tropfen	≥ 10	≥ 15	≥ 25	≥ 35
(**f**) Schutz vor großen Mengen				

EN12477

Eigenschaften	Anforderungen	
	Typ A	Typ B
Abriebfestigkeit - Leistungsstufe (Anzahl der Zyklen)	2 (500)	1 (100)
Schnittfestigkeit - Leistungsstufe (Faktor I)	1 (1.2)	1 (1.2)
Weiterreißfestigkeit - Leistungsstufe (Wert in N)	2 (25)	1 (10)
Durchstichfestigkeit - Leistungsstufe (Wert in N)	2 (60)	1 (20)
Brennverhalten - Leistungsstufe	3 (Dauer des Nachbrennens ≤ 3 s, Dauer des Nachglühens ≤ 25 s)	2 (Dauer des Nachbrennens ≤ 3 s, Dauer des Nachglühens ≤ 25 s)
Schutz vor Kontaktwärme - Leistungsstufe (Kontakttemp. in °C)	1 (100)	1 (100)
Schutz vor kleinen Spritzern von geschmolzenem Metall - Leistungsstufe (Anzahl der Tropfen)	2 (≥7)	Keine Anforderungen
Fingerfertigkeit - Leistungsstufe (Drahtdurchmesser in mm)	1 (11)	4 (6.5)

EN511

abc

Parameter	Klasse 1	Klasse 2	Klasse 3	Klasse 4
a) Wärmeisolierung				
Wärmeisolierung ITR [m2K/W]	0.10 ≤ ITR < 0.15	0.15 ≤ ITR < 0.22	0.22 ≤ ITR < 0.30	0.30 ≤ ITR
(b) Thermischer Widerstand				
Thermischer Widerstand R [m2K/W]	0.025 ≤ R < 0.050	0.050 ≤ R < 0.100	0.100 ≤ R < 0.150	0.150 ≤ R

C - Parameter – Wasserundurchlässigkeit – 0 oder 1



Material der Beschichtung / Griffffläche des Handschuhs

„WERKSTATT"-HANDSCHUHE AUS KUNSTLEDER

Kunstleder ist ein Material, das sich durch Beständigkeit und Abnutzungsfestigkeit auszeichnet. Handschuhe aus Kunstleder verfügen meistens über zahlreiche Verstärkungen und/oder Polster, die vor Blasen und Vibrationen schützen – außerdem verfügen sie über ein Bündchen mit Klettverschluss. Die hohe Lebensdauer, der Tragekomfort, sowie die Tatsache, dass der gehaltene Gegenstand hervorragend gefühlt werden kann, führen dazu, dass diese Handschuhe oftmals in Autowerkstätten verwendet werden. Deshalb werden sie umgangssprachlich auch als Werkstatthandschuhe bezeichnet. Aber sie erfreuen sich unter anderem auch in der Transportbranche, bei Lagerarbeiten und bei allen Freizeitbeschäftigungen großer Beliebtheit.

HANDSCHUHE AUS NATURLEDER

Handschuhe aus Naturleder zeichnen sich durch eine hohe Abrieb- und Rissbeständigkeit aus. Sie zeichnen sich darüber hinaus durch eine gute Atmungsaktivität aus. Sie stellen den höchsten Nutzungskomfort sowie eine gute Griffigkeit sicher, wodurch sie selbst die anspruchsvollsten Nutzer zufrieden stellen Dank ihrer vielen Nutzungseigenschaften werden Handschuhe aus Naturleder in vielen Branchen verwendet, wie z. B. im Bauwesen, Transport, in der Autoindustrie und in der Landwirtschaft.

HANDSCHUHE MIT LATEXBESCHICHTUNG

Latex ist das am häufigsten für Beschichtungen von Schutzhandschuhen verwendete Material. Handschuhe mit Latexbeschichtung oder Handschuhe aus Latex zeichnen sich durch ihre hohe Elastizität aus und das auch bei niedrigen Temperaturen. Außerdem sind sie sehr reißfest und liefern auch unter den schwierigsten Wetterbedingungen eine hervorragende Leistung. Die große Vielseitigkeit von Latex und die verhältnismäßig geringen Produktionskosten bedeuten, dass Latexhandschuhe unter anderem im Bauwesen, im Lagerwesen, in der Transportindustrie, in der Landwirtschaft, im Haushalt und im Garten verwendet werden.

GEFÜTTERTE HANDSCHUHE

Gefütterte Handschuhe sind für Arbeiten unter schwierigen Wetterbedingungen, einschließlich niedriger Temperaturen, vorgesehen. Durch ihre Beschichtung sind sie vielseitig einsetzbar. Die synthetische Faser, die kein Wasser absorbiert und die Körperwärme konstant hält, schützt den Nutzer vor Kälte, Regen, Schnee und Wind. Gefütterte Handschuhe finden unter anderem auf dem Bau, in der Transportbranche und in Kühlhäusern Anwendung.

HANDSCHUHE MIT NITRILBESCHICHTUNG

Das Nitril, aus dem die Handschuhe der Marke Lahti Pro hergestellt werden, stellt ein synthetisches Gummigemisch dar, das sich aus Acrylnitril und Butadien zusammensetzt und keine Latexeiweiße enthält. Die Zusammensetzung dieser zwei Substanzen ergibt ein elastisches Material mit hoher Abriebfestigkeit, das gleichzeitig eine hervorragende Beständigkeit gegen bleifreies Benzin, Diesel, Hexan und Paraffin sicherstellt. Es bietet ebenfalls einen hervorragenden Schutz vor Ölen und Schmiermitteln. Handschuhe mit Nitrilbeschichtung werden oftmals in der Transportbranche und in der Autoindustrie verwendet sowie in der Landwirtschaft und in Gärten. Sie stellen ebenfalls eine hervorragende Alternative für Personen mit einer Latexallergie dar.

HANDSCHUHE MIT POLYURETHANBESCHICHTUNG (PU)

Polyurethan ist ein Material mit sehr hoher Elastizität und hoher Abrieb- und Rissbeständigkeit. Dank diesen Eigenschaften ist es hervorragend für die Herstellung von Handschuhen mit einer dünnen und gleichzeitig sehr beständigen Beschichtung geeignet. Polyurethanhandschuhe stellen dem Nutzer eine gute Fingerfertigkeit sicher sowie das hervorragende Vermögen, den gehaltenen Gegenstand zu fühlen, sie eignen sich unter anderem hervorragend für Arbeiten, die eine große Präzision erfordern. Diese Handschuhe werden z. B. häufig von Mechanikern, Lagerarbeitern und im Haushalt verwendet.

HANDSCHUHE MIT PVC-BESCHICHTUNG

Handschuhe mit PVC-Beschichtung zeichnen sich durch ihre hervorragende Beständigkeit u.a. gegen Schmiermittel, Öle, Fette, milde Reinigungsmittel und Wasser aus. Für niedrige Temperaturen sind sie ebenfalls ziemlich gut geeignet. Sie finden in vielen verschiedenen Branchen, wie z. B. der Automobilindustrie, der Landwirtschaft und dem Transportwesen, Anwendung.



Eigenschaften der Materialien der Beschichtung/ Griffläche des Handschuhs

Eigenschaften der Beschichtung	Art der Beschichtung/Griffläche des Handschuhs					
	Kunstleder*	Leder natürlich	Latex	Nitryl	Polyurethan (PU)	PVC
Dehnbarkeit	1	1	5	4	5	3
Rutschfestigkeit	1	2	4	5	3	5
Griffigkeit (Tastgefühl des gehaltenen Gegenstandes)	5	4	3	4	5	3
Abriebfestigkeit	5	5	2	5	5	4
Rißfestigkeit	5	5	5	1	5	1
Durchstichfestigkeit	5	5	2	5	2	3
Beständigkeit gegen Wasser und verwandte Substanzen	1	2	5	3	3	5
Beständigkeit gegen Fette und Öle	2	3	2	5	4	5
Beständigkeit gegen Kohlenwasserstoffe	1	1	1	4	1	2
Beständigkeit gegen Wasch- und Reinigungsmittel	1	1	5	4	4	5
Beständigkeit gegen ketonische Lösungsmittel	1	1	4	1	2	1

1 Sehr niedrig · 2 Niedrig · 3 Mittelmäßig · 4 Hoch · 5 Sehr hoch

*Die Grifflächen von vielen aus Kunstleder hergestellten Modellen der Lahti Pro Handschuhe sind mit zahlreichen Verstärkungen aus PVC, Anti-Rutsch-Silikonnetzen usw. ausgestattet, die die Eigenschaften der Handschuhe deutlich verbessern.
Die Informationen in der oben aufgeführten Tabelle beziehen sich ausschließlich auf Kunstleder – die Eigenschaften der ergänzenden Materialien wurden daher nicht berücksichtigt.
Achtung: Die oben aufgeführte Tabelle enthält zur Übersicht eine Zusammenstellung der Haupteigenschaften der einzelnen Arten der Beschichtungen/Grifflächen der Handschuhe. Die Eigenschaften der Beschichtung/ Griffläche können sich abhängig von dem Handschuhmodell unterscheiden.



Gewebetyp, aus dem die Handschuhe hergestellt werden sollten

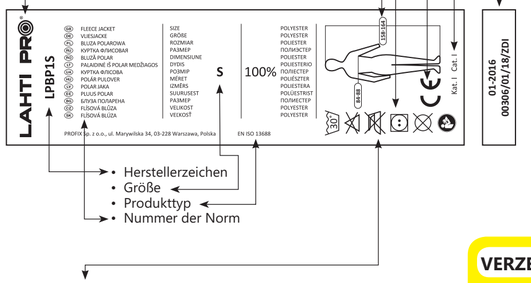
Diese Tabelle beinhaltet die Hauptvorteile der einzelnen für die Produktion der Schutzhandschuhen verwendeten Gewebe:

Typ des Gewebes	Vorteile	
Polyester	✚ Kann mit Baumwolle gemischt werden, um den Tragekomfort zu erhöhen ✚ Stark und beständig ✚ Abriebfest und dehnfest	✚ Beständig gegen Durchnässung ✚ Trocknet schnell ✚ Elastisch
Baumwolle	✚ Sehr atmungsaktiv, luftdurchlässig, keine Hitzestauung ✚ Weich (hoher Tragekomfort) ✚ Abriebfest	✚ Absorbiert Schweiß ✚ Antistatisch
Nylon	✚ Stark und beständig ✚ Sehr abriebfest und dehnfest ✚ Beständig gegen Öle, Fette und Benzin	✚ Beständig gegen Durchnässung ✚ Elastisch
Acryl	✚ Hervorragender Schutz gegen Kälte ✚ Weich (hoher Tragekomfort) ✚ Beständig gegen Durchnässung	✚ Abriebfest und dehnfest ✚ Beständig gegen Öl
Modifiziertes Gewebe, synthetisch	✚ Sehr schnittfest ✚ Extrem abriebfest und dehnfest	✚ Beständig gegen Durchnässung ✚ Elastisch

KÖRPERSCHUTZ

KENNZEICHNUNG DER SCHUTZKLEIDUNG

- CE-Zeichen
- Schutzkategorie
- Art der Pflege
- Herstellungsdatum – Monat und Jahr sowie Seriennr.
- Firmenlogo
- Größenbereich

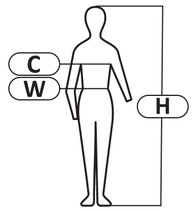


- Herstellerzeichen
- Größe
- Produkttyp
- Nummer der Norm

SYMBOL	BESCHREIBUNG
	Nicht waschen
	Handwäsche
	Waschen bei 30°C - normal
	Waschen bei 30°C - schonend
	Waschen bei 30°C - sehr schonend
	Nicht bügeln
	Bügeln bis 110°C
	Bügeln bis 150°C
	Bügeln bis 200°C
	Nicht im Trommeltrockner trocknen
	Trommeltrocknen – niedriger Temperatur
	Trommeltrocknen – normale Temperatur
	Trocknen auf der Leine
	Hängend trocknen
	Tropfnass trocknen
	Nicht chemisch reinigen
P	Professionelle chemische Reinigung mit Tetrachlorethen
	Bleichen mit Chlor nicht erlaubt

GRÖSSE

C - Brustbreite
W - Breite in der Taille
H - Höhe



VERZEICHNIS DER NORMEN

EN ISO 13688 - **Schutzkleidung** - Allgemeine Anforderungen. In dieser Internationalen Norm wurden die allgemeinen Anforderungen für die Herstellung, Ergonomie, Unschädlichkeit, Größenkennzeichnung, Alterungsprozesse, Kompatibilität und Kennzeichnung der Schutzkleidung sowie zu den durch den Hersteller mit dem Produkt zu liefernden Informationen festgelegt. Diese Internationale Norm kann nur im Zusammenhang mit anderen Normen verwendet werden, die die Anforderungen für bestimmte Ausführungsarten festlegen. Die Norm kann nicht als selbstständiges Basisdokument verwendet werden.

EN ISO 20471 - **Hochsichtbare Kleidung** - Prüfverfahren und Anforderungen. In der Norm werden die Anforderungen festgelegt für Kleidungsstücke mit hoher Sichtbarkeit, die die Möglichkeit zur visuellen Signalisierung der Anwesenheit im Verkehrsbereich des Nutzers für den Bediener von Fahrzeugen oder anderen mechanischen Geräten geben, unter allen Beleuchtungsbedingungen, sowohl im Tageslicht als auch in der Dunkelheit bei Beleuchtung durch die Fahrzeugscheinwerfer. In der Norm werden die Anforderungen für die Farbe und die Reflexeigenschaften sowie für die minimalen Flächen und die Lokalisierung der Materialien auf der Schutzkleidung klar festgelegt. Darüber hinaus geht aus der Norm die Verpflichtung hinaus, dass der Nutzer über die maximale Anzahl der Waschzyklen und die Waschart informiert werden muss, die für die Warnkleidung mit Einhaltung der entsprechenden Schutzstufe angewendet werden darf.

EN ISO 20471

Durch die Norm wird die Kleidung in 3 Kategorien unterteilt, wobei dies auf Grundlage der minimalen Flächen des Reflexmaterials in m^2 erfolgt und Kategorie 1 die niedrigste Kategorie und Kategorie 3 das höchste Sichtbarkeitsniveau darstellt.

	Kleidung Kategorie 3	Kleidung Kategorie 2	Kleidung Kategorie 1
Material Hintergrund	0.8 m^2	0.5 m^2	0.14 m^2
Material reflektierend	0.2 m^2	0.13 m^2	0.10 m^2
Material mit verbundenen Eigenschaften	...	...	0.2 m^2

KLEIDUNG FÜR SCHWEISSER

Schutzkleidung für Schweißer als Persönliche Schutzausrüstung der Kategorie II muss über eine EG-Baumusterprüfbescheinigung verfügen, die die Konformität mit der Richtlinie 89/686/EWG nachweist.

BESTIMMUNG

Schutzkleidung für Schweißer ist erforderlich für Schweißarbeiten, die folgendes umfassen: Schweißen, Auftragsschweißen, Löten und thermisches Schneiden von Metallen sowie thermoplastischen Kunststoffen. Während der Schweißarbeiten sind Schweißer folgenden Gefahren ausgesetzt: Blendung, Verbrennung durch heiße Metallsplitter, während des Schweißens entstehender Rauch und Staub mit toxischen und krebserregenden Eigenschaften, elektromagnetische Felder, Ultraviolettstrahlung und thermische Strahlung, Stromschläge, Brände, Vergiftungen, Erkrankungen der Haut, Augen und Lungen.

MATERIALANFORDERUNGEN

Schutzkleidung für Schweißer wird hauptsächlich aus schwer brennbaren Textilien aus Baumwolle mit Brennschutzimprägnierung mit einer hohen Oberflächenmasse, sowie aus natürlichem Leder mit unbrennbarer Verarbeitung, hergestellt.

KONSTRUKTIONSANFORDERUNGEN

Schutzkleidung für Schweißer muss festgelegte Anforderungen bezüglich der Konstruktion erfüllen, sodass die Gefahr des Eindringens von heißen Absplitterungen unter die Kleidung reduziert wird:

- Während der Durchführung von Schweißarbeiten muss die Schutzkleidung für Schweißer den Körper des Trägers abdecken, d. h. Ober- und Unterkörper, Hals, Schultern, Arme und Beine müssen abgedeckt sein.
- Falls die Schutzkleidung sich aus einem Hemd und einer Hose zusammensetzt, muss das Hemd des zweiteiligen Kleidungssets die obere Kante der Hosen überlappen und eine Schutzfalte von mindestens 20 cm bilden. Die Mindesthöhe der Schutzfalte muss während der Ausführung aller Tätigkeiten und Bewegungen während des Arbeitsprozesses eingehalten werden.
- Kleidungsteile, die eine zusätzliche Schutzkleidung bilden, z. B. Gesichtsschutz, Schweißerkappe, Schweißerärmel, Schutzschürzen und Fußschützer, Handschuhe, müssen so entworfen und genutzt werden, dass sie ein Durchdringen von Funken oder Metalltropfen in das Kleidungsinnere verhindern.
- Falls die Kleidungsstücke mit Taschen entworfen wurden, müssen die Öffnungen mit Stoffklappen gesichert werden.
- Falls Hosen mit Taschen ausgestattet sind, dann dürfen dies nur Seitentaschen sein, deren Öffnungen um nicht mehr als 10° von der Seitennaht der Hose abweichen dürfen.
- Hosen dürfen keine Manschetten haben. Die Kleidung muss auf eine solche Weise angefertigt werden, dass die Leitfähigkeit von Strom von Außen nach innen verhindert wird, z. B. durch Metallverschlüsse.

KLASSEN

Es werden zwei Klassen von Schutzkleidung für Schweißer mit präzise festgelegten Effektivitätsanforderungen bestimmt:

Klasse 1: - bietet Schutz vor weniger gefährlichen Schweißtechniken und vor Situationen, die eine geringfügige Auswirkung von Spritzern von geschmolzenen Metallen und Wärmestrahlung verursachen.
Klasse 2: - bietet Schutz vor gefährlicheren Schweißtechniken und vor Situationen, die eine schwerwiegende Auswirkung von heißen Faktoren verursachen.

Den oben aufgeführten Kleidungsklassen werden in Übereinstimmung mit der Norm EN ISO 11611 bestimmte Arten von angewendeten Schweißprozessen zugeschrieben sowie die Charakteristik der Tätigkeiten (Art der bedienten Maschinen), die auf dem gegebenen Arbeitsplatz ausgeführt werden, wodurch die entsprechende Auswahl der Schutzkleidung für Schweißer ermöglicht wird.

Klasse der Kleidung	Art des verwendeten Schweißprozesses	Charakteristik der auf dem gegebenen Arbeitsplatz ausgeführten Tätigkeiten
Klasse 1	Manuelle Schweißtechniken mit einer geringen Formung von Spritzern und Tropfen von geschmolzenem Metall, z. B.: • Gasschweißen, • WIG-Schweißen, • MIG-Schweißen, • Mikroplasmaschweißen, • Löten, • Punktschweißen, • MMA-Schweißen (Elektrode mit Rutil-Umhüllung).	Bedienung von Maschinen, z. B.: • Schneidemaschinen mit Verwendung von Sauerstoff, • Schneidemaschinen mit Verwendung von Plasma, • Widerstandsschweißgeräte, • Maschinen für Wärmeauftragungen, • Werkstattschweißgeräte.
Klasse 2	Manuelle Schweißtechniken mit einer hohen Anzahl von Spritzern und Tropfen, z. B.: • MMA-Schweißen (Elektrode mit normaler oder Cellulose-Umhüllung), • MAG-Schweißen (Umhüllung aus CO_2 oder Gasgemisch), • MIG-Schweißen (mit hoher Stromstärke), • Schweißen mit selbstumhüllenden Drahtelektroden (Pulverelektroden), • Plasmaschneiden, • Hobeln, • Sauerstoffschneiden, • Wärmeauftragungen.	Bedienung von Maschinen, z. B.: • in beengten Räumen, • beim Schweißen/Schneiden in einer Überkopfposition oder in vergleichbaren, erzwungenen Positionen.



VERZEICHNIS DER NORMEN

EN ISO 11611

EN ISO 11611 Schutzkleidung für Schweißen und verwandte Verfahren. In der Norm werden die grundlegenden Mindestanforderungen festgelegt sowie Prüfmethoden für die Schutzkleidung für Schweißer und Arbeiter, die verwandte Tätigkeiten mit vergleichbaren Risiko ausführen. Diese Art von Kleidung ist bestimmt für den Schutz des Trägers vor den Einwirkungen von geschmolzenem Metall, Funken, die während des Schleifens von Metall entstehen, vor dem kurzzeitigen Kontakt mit Flammen und Wärmestrahlung von Lichtbögen. Die Kleidung minimalisiert ebenfalls die Möglichkeit des Aufkommens eines Schocks bei einem kurzzeitigen, zufälligen Kontakt mit einer Stromleitung unter einer Spannung von bis zu 100V unter normalen Bedingungen und während des Schweißens. Verfahren A1 – Prüfverfahren für horizontale Beflammung Verfahren A2 – Prüfverfahren für Randbeflammung A1 + A2 erfüllt - begrenzte Ausbreitung von Flammen

EN ISO 11612

EN ISO 11612 Schutzkleidung - Kleidung zum Schutz gegen Hitze und Flammen - Mindestleistungsanforderungen. Die Norm definiert die Anforderungen für Kleidung, die ausgelegt ist für den Schutz des Körpers des Trägers, unter Ausschluss der Hände, vor Hitze und Flammen. In der Norm werden die Anforderungen für eine breite Schutzkleidungsgruppe aufgeführt, die sich durch Entzündungsbeständigkeit bei kurzzeitigem Flammenkontakt auszeichnen muss und die Ausbreitung von Flammen verhindern muss (A1+A2) und den Träger vor mindestens einer Art von Hitzefaktor schützen muss. Schutzniveau für den Schutz vor Hitze (je höher die Zahl, desto höher das Schutzniveau):

- Konvektionshitze (B1, B2, B3)
- Wärmestrahlung (C1, C2, C3, C4)
- Spritzer von geschmolzenem Aluminium (D1, D2, D3)
- Spritzer von geschmolzenem Eisen (E1, E2, E3)
- Kontaktwärme (F1, F2, F3).

SCHUTZKLEIDUNG MIT ANTISTATISCHEN EIGENSCHAFTEN

Schutzkleidung mit antistatischen Eigenschaften als Persönliche Schutzausrüstung der Kategorie II muss über eine EG-Baumusterprüfbescheinigung verfügen, die die Konformität mit der Richtlinie 89/686/EWG nachweist.

BESTIMMUNG

Schutzkleidung mit antistatischen Eigenschaften ist in explosionsgefährdeten Bereichen (z. B. Chemieindustrie, Bergbauindustrie, Erdölindustrie, Transport von Gefahrenstoffen, Kraftwerke usw.) erforderlich sowie außerhalb von Gefahrenbereichen (z. B. bei der Produktion von Elektronikelementen zum Schutz vor Beschädigungen durch elektrostatische Entladungen).

MATERIALANFORDERUNGEN

Schutzkleidung mit antistatischen Eigenschaften wird aus Textilien hergestellt, die sich durch ihre Eigenschaft zur Zerstreuung und Ableitung von elektrostatischen Ladungen auszeichnen, wodurch eine elektrostatische Entladung verhindert wird, die ein Entzündungspotenzial hat.

KONSTRUKTIONSANFORDERUNGEN

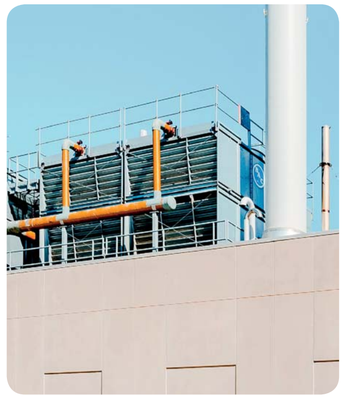
Schutzkleidung mit antistatischen Eigenschaften muss festgelegte Konstruktionsanforderungen erfüllen, sodass elektrostatische Entladungen verhindert werden:

- Die Schutzkleidung muss den gesamten Körper während der Nutzung abdecken, auch während sich der Träger bewegt oder nach vorne beugt.
- Die Schutzkleidung muss eine entsprechende Passform haben und die Bewegungsfreiheit in Situationen sicherstellen, in denen sie während der Nutzung stets geschlossen sein muss.
- Falls die Schutzkleidung aus mehreren Materiallagen besteht, muss das antistatische Material die Außenschicht der Schutzkleidung bilden.
- Verschlüsse aus Strom leitenden Materialien, z. B. Reißverschlüsse, Knöpfe, Druckknöpfe, können unter der Voraussetzung verwendet werden, dass diese mit einem antistatischen Material bedeckt sind.
- m Fall von Materialien, die Strom leitende Garne in Form von parallelen Fäden oder Netzen enthalten, darf der Abstand zwischen den Strom leitenden Garnen in einer Richtung 10 mm nicht unterschreiten.

VERZEICHNIS DER NORMEN

EN 1149-5

EN 1149-5 Schutzkleidung - Elektrostatische Eigenschaften - Teil 5: Material- und Entwurfsanforderungen. In der Norm werden die Prüfmethoden für die elektrostatischen Materialeigenschaften festgelegt sowie die Anforderungen zum Entwurf von Schutzkleidung mit antistatischen Eigenschaften, die als Element von einheitlichen Erdungssystemen zur Vorbeugung von Entladungen mit Entzündungspotenzial verwendet werden. Diese Anforderungen können sich in Bezug auf brennbare und mit Sauerstoff angereicherte Atmosphären als nicht ausreichend erweisen. Schutzkleidung mit elektrostatischen Eigenschaften wird ebenfalls als Schutzkleidung mit antistatischen Eigenschaften bezeichnet.



SCHUTZ GEGEN ABSTURZ

Zu den Höhenarbeiten zählen unter anderem Arbeiten auf Gerüsten, Baukonstruktionen, Dächern, Kaminen, Leitern und anderen Erhöhungen, die sich mindestens 1,0 m über dem Gelände oder der Bodenebene befinden.

Keine Höhenarbeiten sind wiederum Arbeiten, die unabhängig von deren Höhe auf der sich der Arbeiter befindet auf Flächen durchgeführt werden, die von allen Seiten auf eine Höhe von mindestens 1,5 m mit Vollwänden (einschließlich Fenstern) abgeschirmt werden oder mit einer anderen Festkonstruktion oder einer Vorrichtung ausgestattet sind, die den Arbeiter vor einem Fall schützt.

Die polnischen und europäischen Rechtsvorschriften zur Arbeitssicherheit und Arbeitshygiene verpflichten Arbeitgeber, die Arbeiter für Höhenarbeiten einstellen, die entsprechenden Schutzvorrichtungen sicherzustellen, die die Arbeiter vor einem Fall schützen.

Stürze aus der Höhe stellen eine häufige Unfallursache dar, die im Allgemeinen schwere oder tödliche Folgen hat. Höhenarbeiten gehören zu den besonders gefährlichen Arbeiten, die eine Gefährdung für das Leben und die Gesundheit des Arbeitnehmers darstellen, daher werden die persönlichen Schutzausrüstungen, die zu dieser Gruppe gehören, zur Kategorie III eingestuft. Während der Ausführung der Höhenarbeiten müssen besondere Vorsichtsmaßnahmen aufgrund der großen Gefährdung für das Leben und die Gesundheit des Arbeitnehmers eingehalten werden.
Arbeitnehmer, die zu Höhenarbeiten zugelassen werden, müssen:

- über das Berufsrisiko der ausgeführten Arbeiten belehrt worden sein;
- durch persönliche Schutzausrüstung die Möglichkeit zur Ausführung ihrer Arbeit haben;
- über ein aktuelles Tauglichkeitszeugnis für die Zulassung zur Ausführung von Höhenarbeiten verfügen;
- eine Arbeitsschutzschulung sowie eine Arbeitsplatzschulung absolviert haben, in der sie mit der Spezifität von Höhenarbeiten und den auf dem Arbeitsplatz aufkommenden Gefährdungen belehrt worden sind.

In Übereinstimmung mit der harmonisierten Norm PN-EN 365 „Persönliche Schutzausrüstung zum Schutz gegen Absturz - Allgemeine Anforderungen an Gebrauchsanleitungen, Wartung, regelmäßige Überprüfung, Instandsetzung, Kennzeichnung und Verpackung" muss eine regelmäßige Überprüfung der Ausrüstung je ein Mal pro Jahr ab dem Zeitpunkt des Nutzungsbeginns durchgeführt werden.

Um die Anforderungen der Vorschriften zu erfüllen, muss sich jeder Arbeitssatz für Höhenarbeiten aus folgendem zusammensetzen:



Sicherheitsgurt (EN361) - die Hauptaufgabe des Sicherheitsgurts ist das Halten des Körpers im Falle eines Absturzes sowie die Verteilung der dynamischen Kräfte, die beim Aufhalten des Absturzes entstehen. Nur volle Auffanggurte, die über Hüft- und Schenkelgurte verfügen, sind für die Nutzung zum Schutz gegen Abstürze zugelassen.

Ankerpunkt (EN362) - stellt das erste und essentielle Element von der persönlichen Schutzausrüstung zum Schutz gegen Absturz dar. Seine Aufgabe ist die Befestigung des Falldämpfers an die Tragekonstruktion.

Falldämpfer (EN355) - Verbindet die Verbindungsklammer des Sicherheitsgurts mit dem Ankerpunkt. Im Falle eines Sturzes muss der Falldämpfer den Absturz auffangen und die Kräfte reduzieren, die bei der Abbremsung des Falls entstehen. Die Funktion des Falldämpfers kann durch folgende Vorrichtungen erfüllt werden: Falldämpfer mit Sicherheitsleine, selbstbremsende Vorrichtungen, selbstschließende Vorrichtungen und andere.

VERZEICHNIS DER NORMEN

(EN362)
In der Norm werden die Anforderungen und Prüfmethoden für Ankervorrichtungen für einen oder mehrere Nutzer beschrieben. In der Norm werden darüber hinaus die Anforderungen für die Kennzeichnung, die Gebrauchsanweisung und die Hinweise zur Montage aufgeführt.

(EN355)
In der Norm werden die Anforderungen, Prüfmethoden, Kennzeichnungsrichtlinien, die Informationen, deren Übergabe an den Nutzer erforderlich ist, sowie die Verpackungsart der Falldämpfer angegeben.

(EN361)
In der Norm werden die Anforderungen, Prüfmethoden, Kennzeichnungsrichtlinien, die von den Hersteller erforderlichen Informationen sowie die Verpackungsart der Sicherheitsgurte angegeben.

BEINSCHUTZ



Die Sicherstellung des entsprechenden Schutzes für die Beine und Füße hat vor allem einen entscheidenden Einfluss auf die Sicherheit während der Arbeit, aber auch auf den Nutzungskomfort. Schuhe mit Schutzeigenschaften sind bestimmt für den Schutz der Füße des Nutzers vor Verletzungen, zu denen es bei Unfällen kommen könnte.Das Schuhwerk kann die Füße vor mechanischen und chemischen Faktoren sowie vor schädlichen Hitze-, Kälte- oder Feuchtigkeitseinwirkungen schützen. Die Schuhe schützen den Nutzer zumeist vor mehreren Gefährdungen gleichzeitig. Die Schutzstufe ist hauptsächlich von der Konstruktion des Schuhwerks abhängig sowie von den verwendeten Materialien und der Ausstattung der Schuhe mit Elementen wie Zehenschutzklappen, durchtrittsichere Einlagen, Fußknöchelschutz usw. Schuhe, die über keine Schutzeigenschaften verfügen und lediglich aufgrund ihrer hygienischen Vorteile am Arbeitsplatz getragen werden, können nicht als persönliche Schutzausrüstung angesehen werden und dürfen nur als Arbeitsschuhe verwendet werden.

VERZEICHNIS DER NORMEN

EN ISO 20345 - Persönliche Schutzausrüstung - Sicherheitsschuhe. In der Norm werden die allgemeinen und zusätzlichen (optionalen) Anforderungen für Sicherheitsschuhe für den allgemeinen Gebrauch angegeben. Es wurden beispielsweise das mechanische Risiko, die Rutschbeständigkeit, die thermischen Gefährdungen und ergonomischen Eigenschaften berücksichtigt. Sicherheitsschuhe (SB, S1 – 4) - verfügen über Schutzeigenschaften, einschließlich von Zehenschutzklappen, deren Beständigkeit durch einen Schlag mit einer Energie von 200 J geprüft wird.

EN ISO 20347 - Persönliche Schutzausrüstung - Berufsschuhe. In der Norm werden die allgemeinen und zusätzlichen Anforderungen für Berufsschuhe festgelegt. Auf die speziellen Gefährdungen wird hingegen in den Ergänzungen zur Norm für Schuhe für Spezialarbeiten (z. B. Schuhe für Feuerwehrmänner oder elektroisolierende Schuhe) eingegangen. Berufsschuhe (OB, O1 – 5) - verfügt über Schutzeigenschaften, die vor Verletzungen schützen, die bei Unfällen am Arbeitsplatz aufkommen können. Für die tägliche Nutzung an Orten bestimmt, wo kein Schutz der Zehen durch Zehenschutzklappen erforderlich ist.

SCHUHAUFBAU



KENNZEICHNUNG VON SCHUHEN

SCHUTZKATEGORIEN DER SCHUHE - GRUNDANFORDERUNGEN

Kategorien von Schutzschuhen (EN ISO 20345)

Schutz-klasse	Zehenschutz-kappe schützt gegen Schläge mit 200J	Beständigkeit gegen Diesel-öl	Energie-aufnahmev-ermögen im Fersen-bereich	Eigenschaften, antistatisch	Geschlossene Ferse	Beständigkeit gegen Durchstich bei einer Kraft von bis zu 1100N	Beschränkte Durchlässigkeit und Absorption von Wasser	Klasse
SB	✓							I
S1	✓	✓	✓	✓	✓			I
S2	✓	✓	✓	✓	✓		✓	I
S3	✓	✓	✓	✓	✓	✓	✓	I
S4*	✓	✓	✓	✓	✓			* II (Schuhwerk Vollkunststoff)
S5*	✓	✓	✓	✓	✓	✓		* II (Schuhwerk Vollkunststoff)

Kategorien von Berufsschuhen (EN ISO 20347)

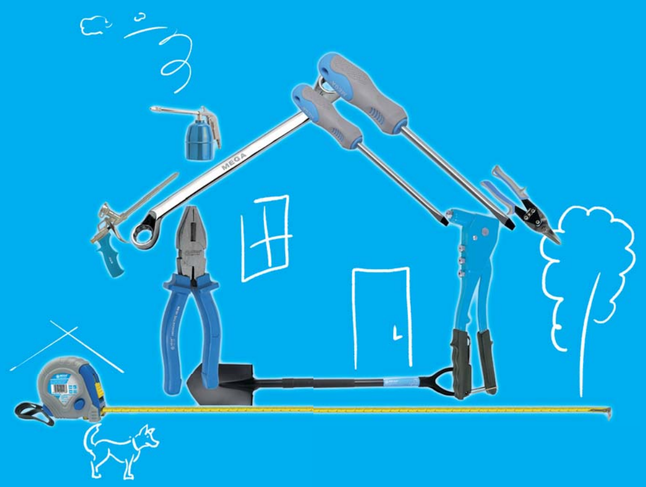
Schutz-klasse	Zehenschutz-kappe schützt gegen Schläge mit 200J	Beständigkeit gegen Diesel-öl	Energie-aufnahmev-ermögen im Fersen-bereich	Eigenschaften, antistatisch	Geschlossene Ferse	Beständigkeit gegen Durchstich bei einer Kraft von bis zu 1100N	Beschränkte Durchlässigkeit und Absorption von Wasser	Klasse
OB	x	x						I
O1	x	x	✓	✓	✓			I
O2	x	x	✓	✓	✓		✓	I
O3	x	x	✓	✓	✓	✓	✓	I
O4*	x	x	✓	✓	✓			* II (Schuhwerk Vollkunststoff)
O5*	x	x	✓	✓	✓	✓		* II (Schuhwerk Vollkunststoff)



SCHUTZKATEGORIEN DER SCHUHE - ZUSATZANFORDERUNGEN

Symbol	Zusätzliche Anforderungen
P	Durchstichbeständigkeit bei einer Kraft von bis zu 1100 N
A	Antistatische Eigenschaften
C	Leitfähige Eigenschaften
I	Elektroisolierende Eigenschaften
HI	Wärmeisolierung von unten
CI	Kälteisolierung von unten
E	Energieaufnahme im Fersenbereich
WR	Beschränkte Durchlässigkeit von Wasser für gesamten Schuh
WRU	Beschränkte Durchlässigkeit Absorption von Wasser im Schuhoberteil
HRO	Hitzebeständige Sohle bei kurzem Kontakt (bis 300°C±5°C/ 1min±1s)
CR	Schnittfestigkeit
M	Mittelfußschutz
AN	Fußknöchelschutz
FO	Sohle beständig gegen Dieselöl
SRA	Rutschhemmung auf Keramikböden, die mit Natriumlaurylsulfat (SLS) benetzt sind
SRB	Rutschhemmung auf mit Glycerin benetzten Stahlböden
SRC	Rutschhemmung auf beiden o.g. Bodenarten

MEGA®
DOBRY WYBÓR



... for repairs



The Mega brand is used for economy class products, ideal for occasional use at home. They are fully usable and meet the strength requirements for tools used in occasional repairs and renovations.

Mega tools and accessories allow anyone to easily expand their arsenal of tools, and work quickly and without tool-related problems.

Mega tools and accessories are recommended for households and individuals, who buy them for their own needs. Mega products are synonymous with availability, durability and quality adjusted to amateur needs.

The Mega brand is very popular with various retail outlets. Mega products are a perfect complement to a store's offer, as basic tools every home needs.

Маркой Mega обозначаются продукты эконом-класса, идеально подходящие для домашнего, ситуативного использования. Они обеспечивают полную пригодность к применению и отвечают всем требованиям к прочности, предусмотренным для инструментов, используемых для одноразовых ремонтных работ.

Благодаря инструментам и аксессуарам Mega, любой из нас сможет простым способом расширить свой инструментальный арсенал и таким образом выполнить работу быстро и без хлопот с инструментами.

Инструменты и аксессуары Mega рекомендуются к использованию в домашних хозяйствах и индивидуальным клиентам, покупающим их для личных потребностей. Продукты Mega - это доступность, прочность и качество, соответствующее потребностям любителей.

Марка Mega пользуется большой популярностью среди различных торговых точек. Продукты Mega идеальны как дополнение торгового предложения магазина основными инструментами, необходимыми в каждом доме.

Die Marke Mega zeichnet sich durch Produkte der Economy-Klasse aus, die sich ideal für gelegentliche Anwendungen zu Hause eignen. Sie bieten volle Benutzerfreundlichkeit und erfüllen die Festigkeitsanforderungen an Werkzeuge, die für gelegentliche Reparaturen und Renovierungen verwendet werden.

Dank der Mega-Werkzeuge und des Zubehörs kann jeder problemlos sein Arsenal an Werkzeugen erweitern und somit schnell und ohne Ausrüstungsprobleme arbeiten.

Mega-Werkzeuge und Zubehör werden für Haushalte und Einzelkunden empfohlen, die sie für ihre eigenen Bedürfnisse kaufen. Mega-Produkte stehen für Verfügbarkeit, Haltbarkeit und Qualität, angepasst an die Bedürfnisse von Amateuren.

Die Marke Mega ist bei verschiedenen Einzelhandelsgeschäften sehr beliebt. Mega-Produkte ergänzen das Angebot des Geschäfts optimal mit den Grundwerkzeugen, die in jedem Haushalt benötigt werden.





MEGA

chisels
discs
drills
hammers
hole saws
knives
measuring tools
pliers
riveters
saws
screwdrivers
spanners
stool sets
torche
and many others

1 91 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 91 ШТ. • WERKZEUG-SET 91 STK.



x91 | 1/4" | 1/2" | CrV

• 1/4" 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/4" 6, 7, 8, 10, 13 mm • 1/2" 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm • 1/4" 17, 19, 21, 22 mm • 16, 21 mm • 1/4" • 1/4" • 1/2" • 1/4" 75 mm • 1/2" 125 mm • 1/4" • 1/2" • 1/4" • 1/2" 5/16" • 1/4" 6, 8, 10, 11, 13, 14, 15, 17, 19 mm • 1/4" PZ1, PZ2, PZ3 2xPH1, 2xPH2, 2xPH3 3, 4, 5, 6 mm T25, T27, T30, T35 4, 5, 6 mm • 5/16" PZ1, PZ2, PZ3 PH1, PH2, PH3 5, 6 mm T25, T27, T30, T35 • 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Quantity in the set (pcs.)	
58091	91	4

2 94 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 94 ШТ. • WERKZEUG-SET 94 STK.



x94 | 1/4" | 1/2"

• 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm • 1/2" 14, 15, 17, 19 mm • 1/2" 16, 21 mm • 1/2" 250 mm • 1/2" 158 mm

• 1/2" 250 mm • 1/2" 1/2"-5/16"

• 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/4" PZ1, PZ2 PH1, PH2 4, 5.5, 7 mm T8, T10, T15, T20, T25, T30 3, 4, 5, 6 mm • 5/16" PZ3, PZ4 PH3, PH4 8, 10, 12 mm T40, T45, T50, T55 8, 10, 12, 14 mm • 1/4" • 1/4" • 1/4" 158 mm • 1/2" 50, 100 mm • 1/4" 150 mm

• 1/2" • 1/4" • 1.5, 2, 2.5

Code	Quantity in the set (pcs.)	
58094	94	4

3 82 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 82 ШТ. • WERKZEUG-SET 82 STK.



x82 | 1/4" | 1/2"

• 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/2" 14, 15, 16, 17, 18, 19, 20, 21, 24, 27, 30, 32 mm • 1/4" PZ1, PZ2 PH1, PH2 4, 5.5, 7 mm T8, T10, T15,T20, T25, T30 3, 4, 5, 6 mm • 5/16" PZ3, PZ4 PH3, PH4 8, 10, 12 mm T40, T45, T50, T55 8, 10, 12, 14 mm • 8, 10, 11, 12, 13, 14, 17, 19, 22 mm • 1/2" • 1/4" • 1/4" 50, 100 mm • 1/2" 125, 250 mm • 1/2" 16, 21 mm • 1/2" 1/4"

• 1/2" • 1/4" • 1/4" • 5/16"

• 1/4" • 1/2"

Code	Quantity in the set (pcs.)	
58082	82	3

4 46 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 46 ШТ. • WERKZEUG-SET 46 STK.



x46 | 1/4" | CrV

• 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm

• 1/4" PZ1, PZ2, PZ3 PH1, PH2, PH3 SL4, SL5.5, SL7 SQ1, SQ2, SQ3 T10, T15, T20, T25, T30, T40 H3, H4, H5, H6, H7, H8 mm • 1/4" • 1/4" 50 mm • 1/4" 100 mm • 1/4" • 1/4" 125 mm • 1/4"

• 1/4" • 1/4" • 1.5, 2.0, 2.5

Code	Quantity in the set (pcs.)	
58046	46	10

MEGA® DOBRY WYBÓR

1 72 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 72 ШТ. • WERKZEUG-SET 72 STK.



x72 | 1/4" | 1/2" | CrV

• 1/4" 4, 5, 5.5, 6, 7, 8, 10, 11, 12, 13 mm • 1/2" 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 mm
• 1/4" PZ0, PZ1, PZ2, PZ3 PH0, PH1, PH2, PH3 SL3, SL4, SL4.5, SL5, SL6, SL6.5, SL7 SQ1, SQ2, SQ3 T8, T9, T10, T15, T20, T25, T27, T30, T40 H2, H3, H4, H5, H5.5, H6 mm • 1/2"
• 1/4" • 1/4" 75 mm • 1/2" 125, 250 mm • 1/2" 21 mm • 1/2" • 1/2"
• 1/4" • 1/4" • 1.5, 2.0, 2.5

Code	Quantity in the set (pcs.)	
58072	72	3

3 144 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 144 ШТ. • WERKZEUG-SET 144 STK.



x144 | 1/4"

• 1/4" 5, 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/4" 60 mm
• 1/4" • 200 mm • 1.27, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6 mm • 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 • 2x100, 1x75
• 6x100, 5x75 • 00, 0 • 2.0, 2.4
• 160 mm • 150 mm • 160 mm • 150 mm • 50 mm • x 10 • 3 m
• 13 oz • 225 mm • x 2 •
• AD 25 mm • 1/4" H1.5, H2, H2.5, H3, H4, H5, H5.5, H6, H7, H8 H1.5, H2, H2.5, H3, H3.5, H4, H4.5, H5, H5.5, H6 H2, H2.5, H3, H4, H5, H6 T8, T10, T15, T20, T25, T30, T40 T8, T10, T15, T20, T25, T30, T40 PZ0, 2 x PZ1, 4 x PZ2, 3 x PZ3 PH0, 2 x PH1, 3 x PH2, 3 x PH3 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8 mm S0, S1, S2, S3 SP4, SP6, SP8, SP10 M5, M6, M8

Code	Quantity in the set (pcs.)	
58144	144	3

2 75 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 75 ШТ. • WERKZEUG-SET 75 STK.



x75 | 1/4" | 1/2" | CrV

• 1/4" 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13 mm • 1/2" 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm • 16, 21 mm
• 1/4" • 1/2" • 1/2" • 1/4" • 1/2" 3/8" • 1/4" 100 mm • 1/4"
• 300g • 2x100, 1x100, 1x75 • 8, 10, 13, 14, 15, 17 mm • 155 mm • 190 mm • 1/4" PZ0, PZ1, PZ2, PZ3, PZ4 PH0, PH1, PH2, PH3, PH4 3, 4, 5, 6, 7 mm T10, T15, T20, T25, T27 ,T30, T40 1.5, 2, 2.5, 3, 4, 5, 6, 7 mm • 1.5, 23 mm

Code	Quantity in the set (pcs.)	
58075	75	4

1 85 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 85 ШТ. • WERKZEUG-SET 85 STK.



x85 1/4”

• 1/4" 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 9, 10, 11, 12, 13, 14 mm • 1/4" 70 mm • 1/4" • 1/4"
• 8, 10, 12, 13, 14, 17 mm • 1.5, 2, 2.5, 3, 4, 5, 5.5, 6 mm • 2x100, 1x75 • 6x100, 5x75
• 0,1 • 2.0, 2.4 • 163 mm • 162 mm • 156 mm • 13 oz • AD 25 mm • 1/4"
H1.5, H2, H3, H4, H5, H6, H7, H8 T8, T10, T15, T20, T25, T27, T30, T35, T40 PZ0, PZ1, PZ2, PZ3 PH0, PH1, PH2, PH3, PH4 3, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8 mm S0, S1, S2, S3
• • 5m

Code	Quantity in the set (pcs.)	
58085	85	4

2 27 PCS TOOL SET

• НАБОР ИНСТРУМЕНТОВ 27 ШТ. • WERKZEUG-SET 27 STK.



x27

• 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, 10 mm • PH1x75, PH2x100 • 4x75 • PH1 - SL3, PH00 - SL1.5, PH0 - SL2.5 • 205 mm • 245 mm • 165 mm • 170 mm • 165 mm • 180 mm • 255 mm • x3 • 1 300g • 3m

Code	Quantity in the set (pcs.)	
58027	27	4

1 COMBINATION SPANNERS

• КОМБИНИРОВАННЫЕ ГАЕЧНЫЕ РОЖКОВО-НАКИДНЫЕ КЛЮЧИ
• MAULRINGSCHLÜSSEL



• Forged • Chromium-plated • Ground

Code	Size (mm)	
35256	6	500
35257	7	500
35258	8	500
35259	9	500
35260	10	350
35261	11	300
35262	12	250
35263	13	250
35264	14	200
35265	15	200
35266	16	100
35267	17	100
35268	18	100
35269	19	100
35270	20	100
35271	21	50
35272	22	50
35273	23	50
35274	24	50
35277	27	25
35280	30	25
35282	32	25
35284	34	20
35286	36	10
35288	38	10
35291	41	10
35296	46	10
35300	50	5

2 COMBINATION SPANNER SET

• НАБОР КОМБИНИРОВАННЫХ ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • MAULSCHLÜSSELSÄTZE



• Forged • Chromium-plated • Ground
• **24 pcs.**: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 30, 32 mm

Code	Quantity (pcs.)	Range (mm)	
35344	24	6 - 32	4

3 COMBINATION SPANNER SETS

• НАБОРЫ КОМБИНИРОВАННЫХ ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • MAULRINGSCHLÜSSEL



• Forged • Chromium-plated • Ground
• **6 pcs.**: 8, 9, 10, 13, 14, 17 mm
• **8 pcs.**: 6, 8 ,9, 10, 13, 14, 17, 19 mm
• **12 pcs.**: 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 mm

Code	Quantity (pcs.)	Range (mm)	
35336	6	8 - 17	20
35338	8	6 - 19	20
35342	12	6 - 22	10

4 COMBINATION RATCHET SPANNERS

• КОМБИНИРОВАННЫЕ ГАЕЧНЫЕ РОЖКОВО-НАКИДНЫЕ КЛЮЧИ
• MAULRINGSCHLÜSSEL MIT RATSCHE



• Forged • Chromium-plated • Ground

Code	Size (mm)	
35668	8	5/200
35669	9	5/200
35670	10	5/200
35671	11	5/200
35672	12	5/200
35673	13	5/100
35674	14	5/100
35675	15	5/100
35676	16	5/100
35677	17	5/50
35678	18	5/50
35679	19	5/50

5 DOUBLE OPEN END SPANNERS

• КЛЮЧИ ГАЕЧНЫЕ РОЖКОВЫЕ • MAULSCHLÜSSEL



• Forged • Chromium-plated • Ground

Code	Size (mm)	
34436	6 x 7	300
34438	8 x 9	300
34439	8 x 10	300
34440	10 x 11	250
34441	10 x 13	200
34442	12 x 13	200
34443	13 x 17	100
34444	14 x 15	200
34446	16 x 17	100
34447	17 x 19	100
34448	18 x 19	100
34449	19 x 22	100
34450	20 x 22	100
34451	21 x 23	50
34454	24 x 27	50
34455	25 x 28	40
34457	27 x 32	30
34460	30 x 32	30

6 DOUBLE OPEN END SPANNER SET

• НАБОР ГАЕЧНЫХ РОЖКОВЫХ КЛЮЧЕЙ • MAULSCHLÜSSELSATZ



• Forged • Chromium-plated • Ground
• **12 pcs.**: 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm

Code	Quantity (pcs.)	Range (mm)	
34432	12	6 x 7 – 30 x 32	6

7 STUBBY COMBINATION SPANNERS

• КОМБИНИРОВАННЫЕ КОРОТКИЕ ГАЕЧНЫЕ РОЖКОВО-НАКИДНЫЕ КЛЮЧИ • MAULRINGSCHLÜSSEL KURZ



• Forged • Chromium-plated • Ground

Code	Size (mm)	Length (mm)	
35240	10	96	500
35241	11	100	400
35242	12	106	400
35243	13	110	240
35244	14	116	200
35245	15	126	100
35246	16	126	100
35247	17	130	100
35248	18	131	100
35249	19	142	100

1 DOUBLE OPEN END SPANNER SET

• НАБОРЫ ГАЕЧНЫХ РОЖКОВЫХ КЛЮЧЕЙ • MAULSCHLÜSSELSATZ



CrV

- Forged • Chromium-plated • Ground
- **6 pcs.**: 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17 mm,
- **8 pcs.**: 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22 mm

Code	Quantity (pcs.)	Range (mm)	
34426	6	6 x 7 – 16 x 17	20
34428	8	6 x 7 – 20 x 22	20

2 STUBBY COMBINATION SPANNER SET

• НАБОР КОМБИНИРОВАННЫХ КОРОТКИХ ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • MAULRINGSCHLÜSSELSATZ KURZ



CrV

- Forged • Chromium-plated • Ground
- **6 pcs.**: 10, 12, 13, 14, 15, 17 mm

Code	Quantity (pcs.)	Range (mm)	
35236	6	10 - 17	40

3 RING SPANNERS

• КЛЮЧИ ГАЕЧНЫЕ НАКИДНЫЕ ИЗОГНУТЫЕ • RINGSCHLÜSSEL GEKRÖPFT



CrV

- Forged • Chromium-plated • Ground

Code	Size (mm)	
36536	6 x 7	300
36538	8 x 9	300
36540	10 x 11	200
36542	12 x 13	150
36544	14 x 15	100
36546	16 x 17	100
36548	18 x 19	50
36550	20 x 22	50
36551	21 x 23	50
36554	24 x 27	50
36555	25 x 28	40
36560	30 x 32	25

4 RING SPANNER SET

• НАБОР ГАЕЧНЫХ НАКИДНЫХ ИЗОГНУТЫХ КЛЮЧЕЙ • RINGSCHLÜSSELSÄTZE GEKRÖPFT





CrV

- Forged • Chromium-plated • Ground
- **12 pcs.**: 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm

Code	Quantity (pcs.)	Range (mm)	
36532	12	6 x 7 – 30 x 32	5

5 RING SPANNER SETS

• НАБОРЫ ГАЕЧНЫХ НАКИДНЫХ ИЗОГНУТЫХ КЛЮЧЕЙ • RINGSCHLÜSSELSÄTZE GEKRÖPFT



CrV

- Forged • Chromium-plated • Ground
- Composition of sets:
  6 pcs.: 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17 mm
  8 pcs.: 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22 mm

Code	Quantity (pcs.)	Range (mm)	
36526	6	6 x 7 – 16 x 17	20
36528	8	6 x 7 – 20 x 22	10

6 SPARK PLUG WRENCHES

• КЛЮЧИ СВЕЧНЫЕ С КАРДАНОМ • ZÜNDKERZENSCHLÜSSEL



- Forged sockets • Joint

Code	Size (mm)		
29056	16	x	10/50
29051	21	x	10/50

7 DOUBLE OPEN END SPANNERS

• КЛЮЧИ ГАЕЧНЫЕ РОЖКОВЫЕ • MAULSCHLÜSSEL



- Carbon steel • Chromium-plated • Bulk

Code	Size (mm)	
34081	8 x 10	250/1000
34103	10 x 13	100/400
34137	13 x 17	50/200
34179	17 x 19	30/120
34192	19 x 22	30/120
34247	24 x 27	25/100
34272	27 x 32	15/60
34282	30 x 32	15/60

8 DOUBLE OPEN END SPANNERS

• КЛЮЧИ ГАЕЧНЫЕ РОЖКОВЫЕ • MAULSCHLÜSSEL



- Carbon steel • Chromium-plated
- Composition of sets:
  6 pcs. - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17 mm
  8 pcs. - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22 mm
  12 pcs. - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm
- Packed in foil
- **34012H** with additional clip

Code	Quantity (pcs.)	Range (mm)	
34006H	6	6x7 - 16x17	20/80
34008H	8	6x7 - 20x22	10/40
34012H	12	6x7 - 30x32	5/20

9 COMBINATION SPANNER SETS

• КОМБИНИРОВАННЫЕ ГАЕЧНЫЕ РОЖКОВО-НАКИДНЫЕ КЛЮЧИ • MAULSCHLÜSSELSÄTZE



- Carbon steel • Chromium-plated
- Composition of sets:
  6 pcs. - 8, 9, 10, 13, 14, 17 mm;
  8 pcs. - 6, 8, 9, 10, 13, 14, 17, 19 mm;
  12 pcs. - 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 mm • Packed in foil
- **35012H** with additional clip

Code	Quantity (pcs.)	Range (mm)	
35006H	6	8 - 17	15/60
35008H	8	6 - 19	10/40
35012H	12	6 - 22	5/20

1 COMBINATION SPANNERS

• КОМБИНИРОВАННЫЕ ГАЕЧНЫЕ РОЖКОВО-НАКИДНЫЕ КЛЮЧИ
• MAULRINGSCHLÜSSEL



• Forged • Chromium-plated • Ground

Code	Size (mm)	
35606H	6	250/1000
35607H	7	200/800
35608H	8	200/800
35609H	9	150/600
35610H	10	150/600
35611H	11	100/400
35612H	12	100/400
35613H	13	60/240
35614H	14	50/200
35615H	15	50/200
35616H	16	50/200
35617H	17	50/200
35618H	18	50/200
35619H	19	25/100
35620H	20	25/100
35621H	21	25/100
35622H	22	25/100
35623H	23	25/100
35624H	24	15/80
35625H	25	15/60
35626H	26	15/60
35627H	27	15/60
35628H	28	15/60
35630H	30	10/40
35632H	32	10/40

2 COMBINATION SPANNER SETS

• КОМБИНИРОВАННЫЕ ГАЕЧНЫЕ РОЖКОВО-НАКИДНЫЕ КЛЮЧИ
• MAULSCHLÜSSELSÄTZE



• Carbon steel • Chromium-plated
• Composition of sets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 mm

Code	Quantity (pcs.)	Range (mm)	
35112H	12	6 - 22	5/20

3 COMBINATION SPANNER SET

• НАБОР КОМБИНИРОВАННЫХ ГАЕЧНЫХ РОЖКОВО-НАКИДНЫХ КЛЮЧЕЙ • KOMBINATIONSSCHLÜSSEL-SET



• Carbon steel • Chromium-plated
• Composition of set: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32 mm

Code	Quantity (pcs.)	Range (mm)	
35125H	25	6 - 32	4

4 OFFSET RING SPANNER SET

• НАБОРЫ ГАЕЧНЫХ НАКИДНЫХ ИЗОГНУТЫХ КЛЮЧЕЙ
• RINGSCHLÜSSELSÄTZE GEKRÖPFT



• Carbon steel • Chromium-plated
• Composition of sets:
6 pcs. - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17 mm; **8 pcs.** - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22 mm; **12 pcs.** - 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm
• Packed in foil
• **36008H, 36012H** with additional clip

Code	Quantity (pcs.)	Range (mm)	
36006H	6	6x7 – 16x17	8/32
36008H	8	6x7 – 20x22	5/20
36012H	12	6x7 – 30x32	2/8

5 TUBULAR WRENCHES

• ТРУБНЫЕ КЛЮЧИ • ROHRSCHLÜSSEL



• Standard lenght wrenches • Forged
• Chromium-plated • Satin • Composition of sets: :
6 pcs. – 8x9, 10x11, 12x13, 14x15, 16x17, madrel;
10 pcs. – 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 2 madrels

Code	Quantity (pcs.)	Range (mm)		
36206	6	8-17	x	6/30
36210	10	6-22	x	6/24

6 PIPE SPANNERS

• КЛЮЧИ ДВОЙНЫЕ ТОРЦЕВЫЕ ИЗОГНУТЫЕ
• WINKELDURCHSTECKSCHLÜSSEL

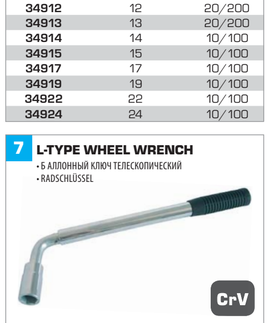


• Forged • Pipe débouchée pans

Code	Size (mm)	
34908	8	20/240
34910	10	20/240
34912	12	20/200
34913	13	20/200
34914	14	10/100
34915	15	10/100
34917	17	10/100
34919	19	10/100
34922	22	10/100
34924	24	10/100

7 L-TYPE WHEEL WRENCH

• Б АЛЛОННЫЙ КЛЮЧ ТЕЛЕСКОПИЧЕСКИЙ
• RADSCHLÜSSEL



• Two-sided forged socket made from CrV steel
• Telescopic
• Arm length 350 - 530 mm

Code	Size (mm)		
29006	17/19	x	6/24

8 RATCHET SCAFFOLD SPANNER

• КЛЮЧ ДЛЯ СТРОИТЕЛЬНЫХ ЛЕСОВ С ТРЕЩОТКОЙ
• KNARREN-GERÜSTSCHLÜSSEL



• Forged • Chrome • Satin • Designed for use in assembling and disassembling scaffolding • Long, contoured handle facilitates lifting and separating pieces of scaffolding • The opening in the handle makes it possible to attach and secure the wrench when working at heights

Code	Size (mm)		
36742	19x22	x	2/50

1 HEXAGON KEY SETS

• НАБОР ТОРЦЕВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ
• SECHSKANTSCHLÜSSELSATZ



- High-grade tool steel • Blackened
- Delivered in plastic case
- **9 pcs.**: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm

Code	Quantity (pcs.)	Range (mm)		
48049	9	1.5 - 10	x	25/100

2 BALL END HEXAGON SPANNER SET

• НАБОРЫ ТОРЦЕВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ С ШАРОВЫМ НАКОНЕЧНИКОМ • SECHSKANTSCHLÜSSELSATZ MIT KUGELN

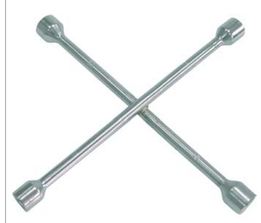


- High-grade tool steel
- Blackened
- Delivered in plastic case
- The ball end enables to use the spanner at the angle of up to 30° to the bolt plane
- **7 pcs.**: 2.5, 3, 4, 5, 6, 8, 10 mm
- **10 pcs.**: 1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10 mm

Code	Quantity (pcs.)	Range (mm)		
48207	7	2.5 - 10.0	x	20/40
48210	10	1.5 - 10.0	x	10/40

3 CROSS-RIM WRENCH

• КЛЮЧ БАЛОННЫЙ КРЕСТОВОЙ • RADKREUZ



• Forged • Chromium-plated • Rod Ø 16 mm

Code	Size (mm)	
29001	17 x 19 x 22 x 13 ⁄ 16"	15

4 HEXAGON KEY SETS

• НАБОРЫ ТОРЦЕВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ • SECHSKANTSCHLÜSSELSATZ



Code	Quantity (pcs.)	Range (mm)		
48008	8	1.5 - 6.0	x	50/200
48018	8	2.0 - 10.0	x	25/100
48010	10	1.5 - 10.0	x	25/100
48012	12	2.0 - 14.0	x	20/40

- High-grade tool steel • Blackened
- **8 pcs.**: 1.5, 2, 2.5, 3, 3.5, 4, 5, 6 mm
- **8 pcs.**: 2, 2.5, 3, 4, 5, 6, 8, 10 mm
- **10 pcs.**: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, 10 mm
- **12 pcs.**: 2, 2.5, 3, 3.5, 4, 5, 5.5, 6, 8, 10, 12, 14 mm

5 T-HANDLE HEX SPANNER SET

• НАБОР ТОРЦЕВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ С Т-ОБРАЗНОЙ РУКОЯТКОЙ • SECHSKANTSCHLÜSSELSATZ MIT T-GRIFFEN



CrV

- Blackened, with T handle • Blackened • Delivered with a steel support
- **10 pcs.**: 2, 2.5, 3, 4, 4.5, 5, 5.5, 6, 8, 10 mm

Code	Quantity (pcs.)	Range (mm)		
48110	10	2 - 10	x	20

6 HEAVY-DUTY CROSS-RIM WRENCH

• КЛЮЧ БАЛОННЫЙ КРЕСТОВОЙ УСИЛЕННЫЙ • RADKREUZ VERSTÄRKT



• Forged • Coated • Rod Ø 16 mm

Code	Size (mm)	
29003	17 x 19 x 22 x square 1/2"	10

1 T-HANDLE SPANNER SET

• НАБОР ТОРЦЕВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ С Т-ОБРАЗНОЙ РУКОЯТКОЙ • SECHSKANTSCHLÜSSELSATZ MIT T-GRIFFEN



◉ H2, H2.5, H3, H4, H5, H6, H8
◉ T10, T15, T20, T25,T30, T40, T45

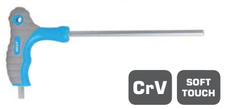
S2 CrV SOFT TOUCH

• Torx spanners made from S2 steel and HEX spanners from CrV steel • Quenched
• Two-component non-slip handle SOFT TOUCH

Code	Quantity (pcs.)	
48600	14	10

2 T-HANDLE HEX SPANNER SET

ОР ТОРЦЕВЫХ ШЕСТИГРАННЫХ КЛЮЧЕЙ С Т-ОБРАЗНОЙ РУКОЯТКОЙ • SECHSKANTSCHLÜSSELSATZ MIT T-GRIFFEN



CrV SOFT TOUCH

• Made from CrV steel, quenched • Two-component non-slip handle SOFT TOUCH

Code	Bit (number x length mm))		
48601	H2 x 75	x	12/120
48602	H2.5 x 75	x	12/120
48603	H3 x 100	x	12/120
48604	H4 x 100	x	12/120
48605	H5 x 150	x	12/120
48606	H6 x 150	x	12/120
48607	H8 x 200,	x	12/48
48608	H10 x 200	x	12/48

3 TORX KEYS WITH T HANDLE

• КЛЮЧИ СТЕРЖНЕВЫЕ



SOFT TOUCH

• Made from CrV steel, quenched
• Two-component non-slip handle SOFT TOUCH

Code	Bit (type x Length mm)		
48611	T10 x 75	x	12/120
48612	T15 x 75	x	12/120
48613	T20 x 100	x	12/120
48614	T25 x 100	x	12/120
48615	T30 x 150	x	12/120
48616	T40 x 150	x	12/120
48617	T45 x 200	x	12/48
48618	T50 x 200	x	12/48

4 SECURITY BIT SET 1/4"

• Н АБОР БИТОВ 1/4 С МАГНИТНЫМ БИТОДЕРЖАТЕЛЕМ
• SPEZIAL-BITS-SET „SECURITY" 1/4"



CrV

• **33 pcs.**: • ⊜ ◎ TORX Security T8, T10, T15, T20, T25, T27, T30, T35, T40 ◉ 2, 2.5, 3, 4, 5, 6 mm, 5/64", 3/32", 7/64", 1/8"
• Other special • 1/4" ◉ 60 mm

Code	Quantity (pcs.)		
10733	33	x	12/72

5 BIT SET 1/4"

• Н АБОР БИТОВ 1/4 С МАГНИТНЫМ БИТОДЕРЖАТЕЛЕМ
• BITS-SET 1/4"



CrV

• **33 pcs.**: • ⊕ PH 0, PH 1 x 2, PH 2 x 2, PH 3 x 2 ⊕ PZ 0, PZ 1 x 2, PZ 2 x 2, PZ 3 x 2 ⊖ 3, 4, 5, 6, 7 mm ◉ TORX T10, T15, T20, T25, T27, T30, T40 ◉ 2, 3, 4, 5, 5.5, 6 mm
• 1/4" ◉ 60 mm • Magnetic holder

Code	Quantity (pcs.)		
10734	33	x	12/72

6 XZN, TORX AND HEX BIT SET, 40 PCS.

• НАБОР ОТВЕРТОЧНЫХ БИТОВ – 40 ШТ.
• BITS-SET XZN, TORX UND IMBUS



Cr

• 40 pcs.: • 1/2" ○ 5/16" • 3/8" ○ 5/16" • 5/16" ◉ 30 i 75 mm T20, T25, T30, T40, T45, T50, T55 ◉ 4, 5, 6, 7, 8, 10, 12 mm ◉ 30 i 75 mm M5, M6, M8, M10, M12

Code	Quantity (pcs.)	
10740	40	10

7 MAGNETIC BIT HOLDER 1/4"

• ДЕРЖАТЕЛЬ ДЛЯ БИТ • MAGNETBITHALTER



CrV SOFT TOUCH

• Bits made from CrV steel, quenched
• Two-component non-slip handle SOFT TOUCH
• Magnetic bit tips

Code	Bit (number x length mm)	
10950	1/4" x 100	12/120

8 SCREWDRIVERS „SOFT TOUCH"

• ОТВЕРТКА • NOPPENSCHRAUBENDREHER



CrV SOFT TOUCH

• Bits made from CrV steel, quenched
• Two-component non-slip handle SOFT TOUCH
• Magnetic bit tips

Code	Bit (number x length mm)	
	SLOTTED ⊖	
10951	2.5 x 63	12/120
10952	3.2 X 75	12/120
10954	5.0 x 100	12/120
10956	6.0 x 38	12/120
10957	6.0 x 100	12/120
10959	8.0 x 150	12/96
	PHILLIPS (PH) ⊕	
10965	PH0 x 75	12/120
10966	PH1 x 100	12/120
10967	PH2 x 38	12/120
10969	PH2 x 100	12/120
10970	PH3 x 150	12/96
	POZIDRIV (PZ) ⊕	
10975	PZ0 x 75	12/120
10976	PZ1 x 100	12/120
10977	PZ2 x 38	12/120
10978	PZ2 x 100	12/120
10980	PZ3 x 150	12/96
	TORX (T) ◉	
10985	T6 x 75	12/120
10986	T7 x 75	12/120
10987	T8 x 75	12/120
10988	T9 x 75	12/120
	TORX SECURITY (TS) ◎	
10990	TS10 x 100	12/120
10991	TS15 x 100	12/120
10992	TS20 x 100	12/120
10993	TS25 x 100	12/120
10994	TS27 x 100	12/120
10995	TS30 x 100	12/120

1 50 PCS „SOFT TOUCH" SCREWDRIVER SET

• НАБОР ОТВЁРТОК И БИТ – 50 ШТ.
• NOPPENSCHRAUBENDREHER - AUSSTELLUNGSSET 50 STK.





Magnetic



x50 | CrV | MAGNETIZER DEMAGNETIZER | SOFT TOUCH

- Stand with screwdrivers, bits and magnetiser • Screwdriver bits and bit shanks made of chrome-vanadium steel, tempered • SOFT TOUCH, non-slip two-material handles • Magnetic screwdriver bit tip
- ⊖ 6.5×38, 4.0×75,6.5×100, 8.0×150 ⊕ PH2×38, PH1×75, PH2×100, PH3×150 ◎ Bit Holder 6.3×75mm
- ⊖ 2.0×75, 2.5×75, 3.0×75 ⊕ PH00×75, PH0×75 ◉ T6×75, T8×75, T10×75 • ⊖ 3, 4, 5, 6 ⊕ 0, 1, 2, 3 ⊕ 0, 1, 2, 3 ◉ H2, H2.5, H3, H4, 2xH5, H5.5, H6 ◉ T8, T10, T15, T20, T25, T27,T30, T40 ◉ 0, 1, 2, 3

Code	Quantity (pcs.)		
10999	50	x	10

2 5 PCS. SCREWDRIVER SET

• НАБОР ОТВЕРТОК – 5 ШТ.
• NOPPENSCHRAUBENDREHER - SET 5 STK.



CrV

- Non-slip handles with rubber inserts
- Magnetic bit tips
- **5 pcs.**: ⊕ PH 1 x 100, PH 2 x 150 mm ⊖ 4 x 100, 5 x 125, 6 x 150 mm

Code	Quantity (pcs.)		
10051	5	x	12/48

3 SCREWDRIVERS

• ОТВЕРТКИ • NOPPENSCHRAUBENDREHER





CrV

- Bits made from CrV steel, quenched
- Non-slip handles with rubber inserts
- Magnetic bit tips

• Slotted

Code	Bit (number x length mm)	
10043	3 x 75	12/480
10044	4 x 100	12/480
10045	5 x 75	12/240
10046	6 x 100	12/180
10047	6 x 150	12/180
10048	8 x 200	12/120
ZR10043	3 x 75	12/480
ZR10044	4 x 100	12/480
ZR10045	5 x 75	12/240
ZR10046	6 x 100	12/180
ZR10047	6 x 150	12/180
ZR10048	8 x 200	12/120

• Phillips (PH)

Code	Bit (number x length mm)	
10330	PH0 x 75	12/480
10331	PH1 x 75	12/240
10332	PH2 x 100	12/180
10333	PH3 x 150	12/120
ZR10330	PH0 x 75	12/480
ZR10331	PH1 x 75	12/240
ZR10332	PH2 x 100	12/180
ZR10333	PH3 x 150	12/120

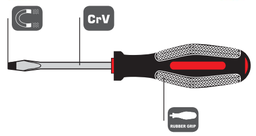
• Pozidriv (PZ)

Code	Bit (number x length mm)	
10490	PZ0 x 75	12/480
10491	PZ1 x 75	12/240
10492	PZ2 x 100	12/180
10493	PZ3 x 150	12/120
ZR10490	PZ0 x 75	12/480
ZR10491	PZ1 x 75	12/240
ZR10492	PZ2 x 100	12/180
ZR10493	PZ3 x 150	12/120

4 126 PCS. DISPLAY SCREWDRIVER SET

• ЭКСПОЗИЦИОННЫЙ НАБОР ОТВЕРТОК – 126 ШТ.
• NOPPENSCHRAUBENDREHER - AUSSTELLUNGSSET 126 STK.





⊕ PH 0 x 75 mm - 12 pcs., PH 1 x 75 mm - 8 pcs., PH 2 x 100 mm - 10 pcs., PH 3 x 150 mm - 8 pcs.
⊕ PZ 0 x 75 mm - 8 pcs., PZ 1 x 75 mm - 8 pcs., PZ 2 x 100 mm - 10 pcs., PZ 3 x 150 mm - 8 pcs.
⊖ 3 x 75 mm - 12 pcs., 4 x 100 mm - 8 pcs., 5 x 75 mm - 8 pcs., 6 x 100 mm - 8 pcs., 6 x 150 mm - 10 pcs., 8 x 200 mm - 8 pcs.

CrV

- Screwdriver rack
- Non-slip handles with rubber inserts
- Magnetic bit tips
- **126 pcs.**:

Code	Quantity (pcs.)	
10050	126	2



1 REVERSIBLE BLADE SCREWDRIVER

• ДВУХСТОРОННЯЯ ОТВЕРТКА • SCHRAUBENDREHER MIT UMKEHRBARER KLINGE



- Removable double-sided blade: ⊕ PH 2 i ⊖ 6 mm
- Plastic handle

Code	Type		
10000	double-sided	x	50/100

2 11 PCS. JEWELLER'S SCREWDRIVER SET

• НАБОР ОТВЕРТОК ДЛЯ ТОЧНОЙ МЕХАНИКИ – 11 ШТ.
• UHRMACHERSCHRAUBENDREHER - SET 11 STK.



- The set includes: ⊕ PH 00, 0, 1 ⊖ 1.0, 1.2, 1.4, 1.8, 2.4, 3.0 mm, spit, magnet
- Delivered in a plastic case

Code	Quantity (pcs.)		
10221	11	x	20/100

3 6 PCS. JEWELLER'S SCREWDRIVER SET

• Н АБОР ОТВЕРТОК ДЛЯ ТОЧНОЙ МЕХАНИКИ – 6 ШТ.
• UHRMACHERSCHRAUBENDREHER - SET 6 STK.



CrV

- The set includes: ⊕ PH 0, 1 ⊖ 1.4, 1.8, 2.4, 3.0 mm
- Delivered in a plastic case

Code	Quantity (pcs.)		
10206	6	x	20/100

4 IMPACT SCREWDRIVER SET

• У ДАРНАЯ ОТВЕРТКА • SCHLAGSCHRAUBENDREHER



- Two-sided operation – leftwards and rightwards
- 25 mm ⊕ PH 2, 3 ⊖ 7,8 mm 50 mm ⊕ PH 2 ⊖ 8 mm
- Delivered in plastic box

Code	Quantity (pcs.)	
10007	6	25

5 6 PCS PRECISION SCREWDRIVER SET

• НАБОР ОТВЕРТОК ДЛЯ ТОЧНОЙ МЕХАНИКИ – 6 ШТ.
• PRÄZISIONSSCHRAUBENDREHER - SET 6 TLG.



x6 S2 SOFT TOUCH

- Bits made from CrV steel, quenched
- Two-component non-slip handles SOFT TOUCH • Magnetic bit tips
- ⊖ 1.4x50 mm, 2.0x50 mm, 2.5x75 mm ⊙ 000x50 mm, 00x75 mm, 0x75 mm

Code	Quantity (pcs.)		
10998	6	x	10/30

1 MULTIFUNCTION SCREWDRIVER

• УНИВЕРСАЛЬНАЯ ОТВЕРТКА
• MULTIFUNKTIONSSCHRAUBENDREHER



• Telescopic magnetic catcher
• 25 mm ⊕ PH 1 i PH2, ⊕ PZ 1, 2 ⊖ 5, 6 mm
• Non-slip rubber handle

Code	Quantity (pcs.)		
10014	6	x	100

2 BIT AND SOCKET SET – 52 PCS.

• УНИВЕРСАЛЬНАЯ ОТВЕРТКА С НАБОРОМ ТОРЦЕВЫХ ГОЛОВОК И БИТОВ – 52 ШТ.
• SCHRAUBENDREHER MIT BITS UND EINSÄTZEN - 52 STK.



• The set includes:
•
• 1/4" ○ 6, 7, 8, 9, 10, 11, 12 mm, 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"
• 25 mm ⊕ PH 0, 1, 2, 3 ⊕ PZ 0, 1, 2, 3 ⊖ 3, 4, 5, 6 mm ◉ TORX T10, T15, T20, T25, T30, T40 • 50 mm ⊕ PH 2, 3 ⊕ PZ 1, 2 ⊖ 6 mm ◉ TORX T15, T20 ◉ 1.5; 2; 2.5; 3; 4; 5; 5.5; 6 mm ◉ S1, S2, S3 • ○
•

Code	Quantity (pcs.)		
10055	52	x	6/24



3 40 PCS CREWDRIVER SOCKET SET

• ОТВЕРТКА С ХРАПОВЫМ МЕХАНИЗМОМ НАБОР 40 ШТ.
• 40-TEILIGES STECKSCHLÜSSEL-SET



• Rubber handle with a joint and 3-position ratchet • Socket connector - 1 pcs.
• 1/4" ▭ • 1/4" ▭ 50 mm • 1/4" ○ 6, 7, 8, 9, 10, 11, 12 mm, 3/16", 1/4", 5/16", 11/32", 3/8" 7/16", 1/2" • 1/4" ⊕ PZ1, PZ2 ⊛ PH1, PH2, PH3 ⊖ SL5, SL6, SL7 ◉ SL5, SL6, SL7, SQ1, SQ2, SQ3 ◉ T10, T15, T20, T25, T27, T30, T40 ◉ H1.5, H2, H2.5, H3, H4, H5, H5.5, H6
• Delivered in a plastic box and cardboard packaging

Code	Quantity (pcs.)	
10013	40	24

4 SCREWDRIVER AND CAR ELECTRIC CIRCUIT TESTER

• АВТОМОБИЛЬНАЯ ОТВЕРТКА ТЕСТЕР 6-24В • SCHRAUBENDREHER UND KFZ-STROMKREISTESTER



• Live wire detection • Open circuit detection
• Testing fuses

Code	Measuring range		
10583	6 - 24 V	x	50/200

5 COMBINATION PLIERS

• УНИВЕРСАЛЬНЫЕ ПЛОСКОГУБЦЫ • KOMBIZANGE



• Forged • Quenched • American type
• Ergonomic PVC covers

Code	Size (mm)	
28660	160	6/60
28661	180	6/60
28662	200	6/60

6 DIAGONAL SIDE CUTTERS

• БОКОРЕЗЫ • SEITENSCHNEIDER



• Forged • Quenched • American type
• Ergonomic PVC covers

Code	Size (mm)	
28670	160	6/60
28671	180	6/60
28672	200	6/60

7 SNIPE NOSE PLIERS, BENT

• ПОЛУКРУГЛЫЕ ВЫГНУТЫЕ ПЛОСКОГУБЦЫ (ТОНКОГУБЦЫ)
• HALBRUNDZANGE ABGEWINKELT



• Forged • Quenched • American type
• Ergonomic PVC covers

Code	Size (mm)	
28691	160	6/60
28693	200	6/60

8 SNIPE NOSE PLIERS

• У НИВЕРСАЛЬНЫЕ ПРЯМЫЕ ПЛОСКОГУБЦЫ (ТОНКОГУБЦЫ)
• HALBRUNDZANGE GRADE



• Forged • Quenched • American type
• Ergonomic PVC covers

Code	Size (mm)	
28681	160	6/60
28683	200	6/60

9 CIRCLIP PLIERS

• ЩИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ
• SICHERUNGSRINGZANGE FÜR INNENRINGE



Code	Size (mm)	Type	Kind	
28436	150	ext.	curved	10/100
28446	200	ext.	curved	10/100
28438	150	int.	curved	10/100
28448	200	int.	curved	10/100
28456	150	ext.	straight	10/100
28466	200	ext.	straight	10/100
28458	150	int.	straight	10/100
28468	200	int.	straight	10/100

MEGA® DOBRY WYBÓR

1 5PC. CIRCLIP PLIER SET

• НАБОР ЩИПЦОВ ДЛЯ СТОПОРНЫХ КОЛЕЦ – 5ШТ.
• SICHERUNGSRINGZANGE FÜR INNENRINGE



- Set of 5
- PVC coated handles plus 4 replaceable bits for external and internal circlips (two straight, two bent 90°)

Code	Size (mm)		
28650	150	x	10/60

2 AUTOMATIC WIRE STRIPPER

• А ВТОМАТИЧЕСКИЕ КЛЕЩИ-ЩИПЦЫ ДЛЯ СНЯТИЯ ИЗОЛЯЦИИ
• AUTOMATISCHE ABISOLIERZANGE



- Adjustable jaws to remove insulation from wires with profile 0.5 - 6 mm²
- Blade for wire insulation cutting

Code	Cross section of the conductor		
28400	0.5 - 6 mm²	x	25/100

3 WIRE STRIPPER

• ЩИПЦЫ ДЛЯ СНЯТИЯ ИЗОЛЯЦИИ
• UNIVERSALE CRIMPZANGE



- Wire stripper to remove insulation from wires with profile 0.5 - 5 mm²
- Adjustable wire size

Code	Cross section of the conductor		
28410	0.5 - 5 mm²	x	10/60

4 AUTOMATIC WIRE STRIPPER

• А ВТОМАТИЧЕСКИЙ МНОГОФУНКЦИОНАЛЬНЫЙ СТРИППЕР
• AUTOMATISCHE ABISOLIERZANGE



- Adjustable jaws to remove insulation from wires with profile 0.5 - 6 mm²
- Quenched cutting blade fro wires
- Jaws for tip clamping

Code	Cross section of the conductor		
28426	0.5 - 6 mm²	x	10/60

5 CRIMPING PLIERS

• А ВТОМАТИЧЕСКИЙ МНОГОФУНКЦИОНАЛЬНЫЙ СТРИППЕР
• UNIVERSALE CRIMPZANGE



- Removing insulation from wires with profile 0.75 - 6.0 mm² • PVC covers • Crimping insulated tips 1.5 - 4.5 mm i 1.5 - 6 mm

Code	Size (mm)		
28428	230	x	12/72

6 WATERPUMP PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ
• ROHRZANGE



- Chromium-plated • PVC-coated handles

Code	Size (mm)	
28210	250	6/60

7 SELF-GRIP PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ MORSE'A
• GRIPZANGE



- Rounded jaws • Adjustable gripping force
- Nickel-plated
- The self-grip pliers are designed for gripping rounded objects, for welding and plumbing works

Code	Size (mm)	
28218	180	6/60
28225	250	6/48

8 C-TYPE LOCKING WRENCH

• ЗАЖИМНЫЕ КЛЕЩИ ТИПА „C"
• CRIMPZANGE TYP C



- Adjustable gripping force and opening release lever • Nickel-plated

Code	Size (mm)	
28230	280	36

9 W-TYPE LOCKING WRENCH

• ЗАЖИМНЫЕ КЛЕЩИ ТИПА „W"
• CRIMPZANGE TYP W



- Adjustable gripping force release and opening lever • Nickel-plated

Code	Size (mm)	
28232	225	30

1 MULTIFUNCTION PLIERS

• МНОГОФУНКЦИОНАЛЬНЫЕ ПЛОСКОГУБЦЫ (МУЛЬТИТУЛ)
• TASCHENMULTIFUNKTIONSZANGE



- 15 tools in one:
- Multifunction extendable flat pliers, wire cutter, hook pusher, fish scraper, file, gauge, slotted screwdrivers - 3 pcs., Phillips screwdriver, tin opener, 2 knife blades, bottle opener • Foldable structure enables to hold the whole tool in a pocket case

Code	Size (mm)		
28023	160	x	10/40

2 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ВЫДВИЖНЫМ ЛЕЗВИЕМ
• MESSER MIT ABBRECHKLINGE



- Retractable, broken blade
- Metal guide
- Plastic body with precise blade lock

Code	Blade (mm)	Length (mm)		
30058	18	150	x	12/240

3 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ВЫДВИЖНЫМ ЛЕЗВИЕМ
• MESSER MIT ABBRECHKLINGE



- Retractable, broken blade
- Metal guide
- Plastic body with blade lock

Code	Blade (mm)	Length (mm)		
30048	18	150	x	24/240

4 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ВЫДВИЖНЫМ ЛЕЗВИЕМ
• MESSER MIT BBRECHKLINGE



- Retractable blade • Length 150 mm
- Plastic body with blade lock
- Delivered in a plastic bag

Code	Blade (mm)	Length (mm)		
30018H	18	150	x	50/500

5 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ВЫДВИЖНЫМ ЛЕЗВИЕМ
• MESSER MIT ABBRECHKLINGE



- Retractable, broken blade
- Plastic body with blade lock

Code	Blade (mm)	Length (mm)		
30009H	9	130	x	100/1000

6 RETRACTABLE KNIFE

• УНИВЕРСАЛЬНЫЙ НОЖ С ВЫДВИЖНЫМ ЛЕЗВИЕМ
• MESSER MIT BBRECHKLINGE



- Retractable, broken blade
- Plastic body with blade lock

Code	Blade (mm)	Length (mm)		
30069	9	130	x	48/960
30068	18	150	x	24/480

7 RETRACTABLE KNIFE AND BLADES SET

• УНИВЕРСАЛЬНЫЙ НОЖ С ВЫДВИЖНЫМ ЛЕЗВИЕМ
• MESSER MIT ABBRECHKLINGE



- Retractable blade
- Plastic body with blade lock
- Delivered with 10 spare blades in a box

Code	Blade (mm)	Length (mm)		
30019	18	150	x	20/100

8 RETRACTABLE KNIFE SET

• НАБОР УНИВЕРСАЛЬНЫХ НОЖЕЙ С ВЫДВИЖНЫМ ЛЕЗВИЕМ
• TAPETENMESSERSATZ



- 3 pcs.: 9 mm - 130 mm narrow, 9 mm - 130 mm wide, 18 mm - 150 mm
- Retractable blades
- Plastic bodies with blade lock

Code	Quantity (pcs.)		
30203	3	x	12/120

9 RETRACTABLE KNIFE SET

• НАБОР УНИВЕРСАЛЬНЫХ НОЖЕЙ И СКРЕБКОВ С ВЫДВИЖНЫМ ЛЕЗВИЕМ • MESSERSATZ



Code	Quantity (pcs.)		
30008	8	x	50/100

10 GLASS SCRAPER

• СКРЕБОК ДЛЯ ОЧИСТКИ СТЕКОЛ
• GLASSCHABER



Code	Blade (mm)	
31000	60	24/288

1 MODELLER'S KNIFE KIT
• НАБОР МОДЕЛЬНЫХ НОЖЕЙ • MESSERSATZ MIT KLINGEN



- Set of 3 handles – 8 and 11 mm and 11 mm with a plastic cover; with 13 replaceable blades of different shapes for different kinds of works: modelling, woodworking etc.
- Delivered in a box

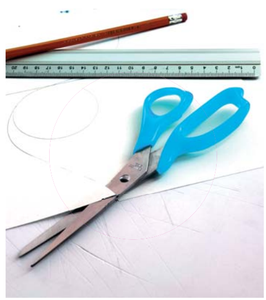
Code	Quantity (pcs.)		
30216	16	x	40

2 SCISSORS
• НОЖНИЦЫ • SCHERE



- Stainless steel • Quenched

Code	Length (mm)		
30086	215	x	30/60



3 RETRACTABLE KNIFE BLADES
• СЕГМЕНТНЫЕ ОБЛАМЫВАЕМЫЕ ЛЕЗВИЯ
• AUSWECHSELBARE ABBRECHKLINGE



- Delivered 10 pcs. in a plastic box

Code	Blade (mm)		
31300	60	x	100/500
31301	60		25/250

4 RETRACTABLE KNIFE BLADES
• СЕГМЕНТНЫЕ ОБЛАМЫВАЕМЫЕ ЛЕЗВИЯ
• AUSWECHSELBARE ABBRECHKLINGE



- Delivered 10 pcs. in a plastic box

Code	Blade (mm)	
31009H	9	20/500
31018H	18	20/300

5 MEASURING TAPES
• ИЗМЕРИТЕЛЬНЫЕ РУЛЕТКИ
• ROLLMASSBÄNDER



- 2nd precision class
- 3 additional rakes, including one from below
- Housing covered with non-slip rubber

Code	Length (m)	Tape (mm)		
20112	2	16		12/120
20113	3	16		12/120
20115	5	19		12/96
20117	7.5	25		6/48
20119	10	32		6/30
20112K	2	16	x	12/120
20113K	3	16	x	12/120
20115K	5	19	x	12/96
20117K	7.5	25	x	6/48
20119K	10	32	x	6/30

6 MEASURING TAPES
• ИЗМЕРИТЕЛЬНЫЕ РУЛЕТКИ • ROLLMASSBÄNDER



- Colourful plastic casing • Brake

Code	Length (m)	Tape (mm)	
20102	2	13	12/120
20103	3	13	12/120
20203	3	16	12/120
20105	5	13	12/120
20205	5	16	12/120
20206	5	19	12/120

7 LONG STEEL MEASURING TAPES
• И ЗМЕРИТЕЛЬНЫЕ ДЛИННЫЕ СТАЛЬНЫЕ РУЛЕТКИ
• MASSBÄNDER LANG AUS STAHL



- Steel tape
- Delivered in a fancy cardboard box

Code	Length (m)	
20331	10	50
20332	20	50
20333	30	50
20335	50	30

8 LONG GLASS-FIBRE MEASURING TAPES
• И ЗМЕРИТЕЛЬНЫЕ ДЛИННЫЕ РУЛЕТКИ ИЗ СТЕКЛОВОЛОКНА
• MASSBÄNDER LANG AUS GLASFASER



- Fibre glass tape
- Delivered in a fancy cardboard box

Code	Length (m)	
20311	10	60
20312	20	60
20313	30	50
20315	50	30

1 RETRACTABLE MEASURE - KEYCHAIN

• РУЛЕТКА-БРЕЛОК
• ROLLMASSBÄNDER SCHLÜSSELANHÄNGER



• Keychain – miniature of the car tire

Code	Length (m)	
20101	1	100/1000

2 LONG STEEL MEASURING TAPES

• ГЕОДЕЗИЙНЫЕ ДЛИННЫЕ СТАЛЬНЫЕ РУЛЕТКИ
• MASSBÄNDER LANG AUS STAHL



• Steel tape
• Delivered in a fancy cardboard box

Code	Length (m)	
20342	20	10
20343	30	10
20345	50	10

3 HARDWOOD FOLDING RULERS

• ДЕРЕВЯННЫЕ СКЛАДНЫЕ ЛИНЕЙКИ
• HOLZZOLLSTÖCKE



• Wooden

Code	Length (m)	Type	
13001	1	5-częściowa	24/480
13002	2	10-częściowa	12/240

4 RIGID STEEL GAUGE

• СТАЛЬНЫЕ ЛИНЕЙКИ
• STAHLMASS STEIF



• Two-sided graduation on both edges
• Stainless steel

Code	Size (mm)	
22015	150 x 18	10/600
22030	330 x 28	10/360

5 COMBINATION SQUARES

• УГЛОМЕР РАЗВОДНОЙ • WINKEL MIT SKALA



Code	Length (mm)	
21125	250	12/120
21130	300	12/120
21135	350	12/120

6 PROFESSIONAL SPIRIT LEVELS 2 VIALS

• СПИРТОВЫЕ УРОВНИ
• WASSERWAAGEN – 2 LIBELLEN, PROFESSIONELL



• **Accuracy 1 mm / 1 m**
• Two-sided graduation • Aluminium box body
• 2 level vials: horizontal and vertical

Code	Length (mm)	
15034	400	60
15036	600	60
15038	800	60
15040	1000	60
15042	1200	30
15045	1500	30
15050	2000	30

7 SPIRIT LEVELS - 3 VIALS WITH HAND HOLDERS

• СПИРТОВЫЕ УРОВНИ
• WASSERWAAGEN - 3 LIBELLEN MIT HANDGRIFF



• Accuracy 1 mm / 1 m • Aluminium box body with a hand holder • 3 level vials: horizontal, vertical and at 45° angle

Code	Length (mm)	
15176	600	50
15178	800	50
15180	1000	20
15182	1200	20
15185	1500	20
15190	2000	20

8 DIGITAL CALIPER

• ЭЛЕКТРОННЫЙ ШТАНГЕНЦИРКУЛЬ • ELEKTROMESSSCHIEBER



• Made from stainless steel

Code	Length (mm)	Accuracy (mm)	
20513	150	0.02	10/50

9 VERNIER CALIPER

• ШТАНГЕНЦИРКУЛЬ • MESSSCHIEBER



• 20510 - made from stainless steel
• 20511 - made from carbon steel

Code	Length (mm)	Accuracy (mm)	
20510	150	0.02	10/100
20511	150	0.02	10/50

10 DIAL CALIPER

• ШТАНГЕНЦИРКУЛЬ С ИНДИКАТОРОМ ЧАСОВОГО ТИПА
• UHRMESSS CHIEBER



• Made from stainless steel

Code	Length (mm)	Dokładność (mm)	
20512	150	0.02	10/50

11 FEELER GAUGE

• ИЗМЕРИТЕЛЬНЫЙ ЩУП • FÜHLERLEHRE



• 0.05 – 1.00 mm every 0.05 mm
• 20 blades

Code	Range (mm)	Accuracy (mm)	
20501	0.05 - 1.00	100	10/100

1 TORPEDO LEVELS

• СПИРТОВЫЕ УРОВНИ TORPEDO
• WASSERWAAGEN TORPEDO



- ABS body
- Magnetic base 3 level vials: horizontal, vertical and at 45°

Code	Length (mm)	
15100	152	100
15102	225	100

2 LINE LEVEL

• ПОДВЕСНОЙ УРОВЕНЬ
• SCHNURWASSERWAAGE



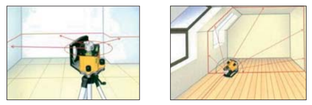
- Plastic body
- To be hung on ropes

Code	Length (mm)		
15000	70	x	500

3 ROTARY LASER LEVEL

• ЛАЗЕРНЫЙ ВРАЩАЮЩИЙСЯ НИВЕЛИР-УРОВЕНЬ
• LASERWASSERWAAGE - DREHBAR • LAZERINIS GULŠČIUKAS – ROTACINIS





- **Accuracy 0.029°=0.5 mm/m**
- Output power ≤ 1.4 mW • Wavelength λ= 650 nm
- 360° rotation with speed control 0-600 min-1
- Setting horizontally and vertically • Batteries 4x1.5 V
- The set includes: rotary laser level, large aluminium stand 45 - 120 cm, batteries - 4 pcs., plastic case

Code	Typ	
15150	obrotowa	4

4 ROTARY LASER LEVEL

• ЛАЗЕРНЫЙ НИВЕЛИР-УРОВЕНЬ
• LASERWASSERWAAGE





- **Accuracy 0.029°=0.5 mm/m** • Output power 1 mW • Wavelength λ= 650 nm
- Batteries 2x1,5V • The set includes: laser level 400mm, levelling components, 2 lenses - linear and 90°, batteries - 2 pcs.

Code	Length (m)		
15124	400	x	24

5 LASER LEVEL

• ЛАЗЕРНЫЙ НИВЕЛИР-УРОВЕНЬ
• LASER-WASSERWAAGE





- **Accuracy 0.029°=0.5 mm/m** • Output power ≤ 1 mW • Wavelength λ= 650 nm • Batteries 2xAAA • The set includes: laser level 400mm, large aluminium stand 45 - 120 cm, rotary aluminium support with a ground base and level vial, 2 lenses: linear and 90°, batteries - 2 pcs., plastic case

Code	Length (mm)	
15145	400	4

1 LASER LEVEL
• ЛАЗЕРНЫЙ НИВЕЛИР-УРОВЕНЬ
• LASER-WASSERWAAGE



• **Accuracy 0.029°=0.5 mm/m** • Output power ≤ 1 mW • Wavelength λ= 650 nm
• Batteries 2xAAA • The set includes: laser level 400mm, aluminium stand 45 - 100 cm, rotary plastic support with level vial, 2 lenses: linear and 90°, batteries - 2 pcs., plastic case

Code	Length (mm)	
15142	400	4

2 RUBBER SANDING BLOCK FOR PAPER AND SCREEN PADS
• РЕЗИНОВЫЙ БРУСОК-ДЕРЖАТЕЛЬ ДЛЯ АБРАЗИВНОЙ БУМАГИ
• GUMMIBLOCK FÜR SCHLEIFPAPIER UND SCHLEIFNETZE



• With rubber face • Snap-on handles

Code	Size (mm)	
45181	125 x 69	12/72

3 PLASTIC FLOATS FOR PAPER AND SCREEN PADS
• ПЛАСТИКОВЫЙ БРУСОК-ДЕРЖАТЕЛЬ ДЛЯ АБРАЗИВНОЙ БУМАГИ
• PLATIKBLÖCKE FÜR SCHLEIFPAPIER UND SCHLEIFNETZE



• With rubber face • Snap-on handles

Code	Size (mm)	
45180	212 x 105	20/80

4 PUTTY KNIVES
• ШПАТЕЛЯ
• SPACHTELN



• Polished • Plastic handle

Code	Size (mm)	
31134	40	12/240
31136	60	12/240
31138	80	12/240
31140	100	12/240
31143	125	12/240
31145	150	12/240

5 BUILDER'S LINE
• ТРАССИРОВОЧНЫЙ ШНУР
• SCHLAGSCHNUR



• Aluminium casing

Code	Length (m)		
38004	15	x	10/100

6 PLUMB BOB
• ОТВЕС КАМЕНЩИКА
• LOT



• Delivered with 5 m line

Kód	Weight (g)		
38010	250	x	6/60

7 CARPENTER'S PENCIL
• СТОЛЯРНЫЙ КАРАНДАШ
• SCHREINERBLEISTIFT



• Sold in packages of 12 pieces

Code	Number in the packaging	
38001K	12	30/240

8 INSULATION TAPES
• ИЗОЛЯЦИОННЫЕ КЛЕЮЩИЕ ЛЕНТЫ
• ISOLIERBÄNDER



RUBBER 1kV

• Sets of 3, 6 or 10 discs

Code	Width x Thickness x Length (mm x mm x m)	Quantity in the set (pcs.)	
13123	19 x 0.13 x 3	3	200
13126	19 x 0.13 x 3	6	100
13129	19 x 0.13 x10	10	10/50

9 INSULATION TAPE
• ИЗОЛЯЦИОННАЯ КЛЕЮЩАЯ ЛЕНТА
• ISOLIERBAND



RUBBER 1kV

• Sold individually
• 10 pieces in a sealed package

Code	Width x Thickness x Length (mm x mm x m)	
13121	19 x 0.13 x 10	250/500

1 TILE CUTTERS WITH HOLE CUTTER

- РУЧНЫЕ ПЛИТКОРЕЗЫ С БАЛЕРИНКОЙ
- GERÄTE ZUM SCHNEIDEN VON FLIESEN MIT EINEM KNABBER



- Steel base • Enables straight line cutting and breaking 0 - 45° and hole cutting 30 - 80 mm
- PTFE pads on the guides

Code	Size (mm)	Width of the Base (mm)	
75449	435	200	2
75460	600	200	1

2 TILE CUTTERS

- РУЧНЫЕ ПЛИТКОРЕЗЫ
- GERÄTE ZUM SCHNEIDEN VON FLIESEN



Code	Size (mm)	Width of the Base (mm)	
75030	300	140	6
75040	400	140	6

3 REPLACEMENT WHEELS FOR TILE CUTTER

- РОЛИКИ ДЛЯ РУЧНОГО ПЛИТКОРЕЗА
- ERSATZRÄDER FÜR FLIESENSCHNEIDER



- Hole diameter 6mm

Code	Size (mm)	Thickness (mm)	
75762	16	2	250
75763	16	3	250
75722	22	2	250

4 TILE HOLE CUTTER WITH A GUARD

- СВЕРЛО ПО КЕРАМИКЕ
- KNABBER FÜR BOHRUNGEN IN FLIESEN



Code	Diameter (mm)	
75772	20 - 94	10

5 TILE CUTTING PLIERS

- КУСАЧКИ - ПЛИТКОРЕЗ
- FLIESENSCHNEIDZANGE



- For cutting glass and tiles
- Carbide wheel for initial surface cutting
- Precise breaking of tile or glass with pliers

Code	Size (mm)	
75000	200	10/60

1 TILE SPACERS

- КРЕСТИКИ ДЛЯ УКЛАДКИ КАФЕЛЯ
- FLIESENKEILE



- Packaged in a plastic bag with a cardboard pendant

Code	Size (mm)	No. of pieces in the packaging (pcs.)	
61359	1.0	200	50
61360	1.5	200	50
61361	2.0	200	50
61362	2.5	200	50
61363	3.0	150	50
61364	4.0	100	50
61365	5.0	100	50
61366	6.0	100	50
61368	8.0	50	50
61369	10.0	40	50
61357	12.0	15	50

2 TILE SPACERS WITH HOLDER

- КРЕСТИ КИ ДИСТАНЦИОННЫЕ ДЛЯ ГЛАЗУРОВАННОЙ ПЛИТ КИ, С ДЕРЖАТЕЛЕМ
- FUFUGENKREUZ FÜR FLIESEN MIT GRIFF



- Packaged in a plastic bag with a cardboard pendant

Code	Size (mm)	No. of pieces in the packaging (pcs.)	
61381	1.5	100	50
61382	2.0	100	50
61383	2.5	75	50
61384	3.0	75	50
61385	4.0	50	50

3 T-TYPE CLINKER SPACERS

- КРЕСТИКИ ДЛЯ УКЛАДКИ КЛИНКЕРА
- FUGENKREUZ TYP „T" FÜR KLINKERSTEINE



- Packaged in a plastic bag with a cardboard pendant

Code	Size (mm)	No. of pieces in the packaging (pcs.)	
61376	1	150	50
61377	2	125	50
61378	3	100	50
61379	4	75	50
61372	5	100	50
61373	8	50	50
61374	10	40	50

4 TILE WEDGES

- КЛИНЬЯ ДЛЯ УКЛАДКИ КАФЕЛЯ
- FLIESENKEILE

- Packaged in a plastic bag with a cardboard pendant

Code	Width x Thickness x Length (mm x mm x mm)	No. of pieces in the packaging (pcs.)	
61370	5 x 5 x 22	100	50
61371	10 x 7 x 26	50	50

5 MAGNETIC TILE HOLDERS

- МАГНИТНЫЕ ДЕРЖАТЕЛИ ДЛЯ КАФЕЛЯ
- MAGNETGRIFFE FÜR FLIESEN



- For hole concealment with tiles, gypsumboard panels etc.

Code	Set (pcs.)		
61375	4	x	50

6 FOAM GUN

- ПИСТОЛЕТ ДЛЯ МОНТАЖНОЙ ПЕНЫ
- SCHAUMPISTOLE



Code	
18018	20

7 FOAM GUN

- ПИСТОЛЕТ ДЛЯ МОНТАЖНОЙ ПЕНЫ
- SCHAUMPISTOLE



Code	
18012	20

8 CAULKING GUN

- П ИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ ГЕРМЕТИЧЕСКОЙ МАССЫ
- SKELETTKARTUSCHENPISTOLE



- Metal • Ratchet gear

Code	Size (mm)	
18001	225	40

9 CYLINDRICAL CAULKING GUN

- П ИСТОЛЕТ ДЛЯ ВЫДАВЛИВАНИЯ ГЕРМЕТИЧЕСКОЙ МАССЫ
- ZYLINDERKARTUSCHENPISTOLE



- Metal • Ratchet gear

Code	Size (mm)	
18002	225	40

10 HAND GREASE GUN

- РУЧНАЯ МАСЛЕНКА
- HANDFETTPRESSE



- Standard with connection thread M10x1
- With a hose and 4-jaw tip
- Delivered in a cardboard box

Code	Size (ml)	
42505	400	10

MEGA® DOBRY WYBÓR

1 MACHINIST'S HAMMERS
• СЛЕСАРНЫЕ МОЛОТКИ
• SCHLOSSERHÄMMER



DIN 1041 HRC 51±2

• Forged and quenched head • Wooden, varnished handle • Head fixing reinforced with an adapter sleeve

Code	Weight (g)	
12122	200	12/96
12123	300	6/60
12124	400	6/48
12125	500	6/36
12128	800	6/24

2 CLAW HAMMER
• МОЛОТОК СТОЛЯРНЫЙ
• SCHREINERHAMMER



Code	Weight (g)	
12204	450	6/24

3 ROOFING HAMMER
• ПЛОТНИЦКИЙ МОЛОТОК
• ZIMMERMANNSHAMMER



• Heat with a magnetic nail holder

Code	Weight (g)	
12206	600	6/24

4 ROOFING HAMMER
• ПЛОТНИЦКИЙ МОЛОТОК
• ZIMMERMANNSHAMMER



• Special head with magnetic nail holder
• Metal holder with rubber coat

Code	Weight (g)	
12200	600	6/24

5 RHENISH MASONRY HAMMER
• МОЛОТОК КАМЕНЩИКА (РЕЙНСКИЙ ТИП)
• MAURERHAMMER - RHEINISCHE FORM



• Rhenish type
• Shank - steel profiled tube
• Rubber handle

Code	Weight (g)	
12213	600	10/30

6 BERLINER MASONRY HAMMER
• МОЛОТОК КАМЕНЩИКА (БЕРЛИНСКИЙ ТИП)
• MAURERHAMMER - BERLINER FORM



• Rubber handle

Code	Weight (g)	
12212	600	6/24

7 RUBBER MALLET
• РЕЗИНОВАЯ КИЯНКА
• GUMMIHAMMER



• Rubber slogging head
• Wooden handle

Code	Weight (g)	Head diameter (mm)	
12010	1115	90	12

8 RUBBER MALLETS
• РЕЗИНОВЫЕ КИЯНКИ
• GUMMIHÄMMER



• Rubber slogging heady
• Shank - steel profiled tube
• Rubber handle

Code	Weight (g)	Head diameter (mm)	
12006	450	55	36
12007	680	65	24

9 RUBBER MALETS
• РЕЗИНОВЫЕ КИЯНКИ
• KFZ-GUMMIHÄMMER



• Rubber slogging heady
• Shank - steel profiled tube
• Rubber handle

Code	Weight (g)	Head diameter (mm)	
12008	225	40	60
12009	450	65	36

10 TINMAN'S MALLET
• РЕЗИНОВАЯ КИЯНКА
• KFZ-HAMMER



• Replaceable heads (plastic and rubber)
• Shank - steel profiled tube
• Rubber handle

Code	Head diameter (mm)	
12035	35	50

1 CROWBAR

- ГВОЗДОДЕР
- NAGELEISEN



Code	Length (mm)	
31424	600	20

2 GARDEN SPADE, METAL HANDLE

- ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА
- GERADER SPATEN, METALLSTIEL



HRC 45±2

- Handle with plastic cover

Code	Dimensions (mm)	
14361	1150 x 185 x 270	6

3 SHARP QUENCHED BLADE, METAL HANDLE

- ШТЫКОВАЯ ЛОПАТА
- SPITZER SPATEN, METALLSTIEL



HRC 45±2

- Handle with plastic cover

Code	Dimensions (mm)	
14362	1150 x 185 x 270	6

4 SAND SHOVEL, METAL HANDLE

- ЛОПАТА ДЛЯ ПЕ СКА С МЕТАЛЛИЧЕ СКИМ ЧЕРЕНКОМ
- SANDSCHAUFEL, METALLSTIEL



HRC 45±2

- Handle with plastic cover

Code	Dimensions (mm)	
14363	1250 x 278 x 325	6

5 10 PCS. NEEDLE FILE SET

- НАБОР НАДФИЛЕЙ – 10 ШТ.
- FEINFEILE - SET 10 TLG.



- Length 140 mm • Plastic case • The set includes: flat, flat-convergent, semirounded, triangular, square, round, knife, crossing, slitting

Code	Quantity in the set (pcs.)	
32010	10	50/200

6 6PC PRECISION FILES – SET

- НАБОР НАДФИЛЕЙ – 6 ШТ.
- FEINFEILE - SET 6 TLG.



Profils:

145-150 mm x6

- 160 mm • Cut no. 2 • Two component handle • Plastic case • The set includes: flat, flat-convergent, semirounded, triangular, square, round

Code	Quantity in the set (pcs.)		
32016	160	x	12/120

1 WHETSTONE
• АБРАЗИВНЫЙ БРУСОК
• SCHLEIFSTEIN OVAL



• Fine

Code	Length (mm)	
45001	200	100

2 WIRE HAND BRUSH
• МЕТЧИКИ
• HANDGEWINDEBOHRER



• Brass-coated wire • Plastic handle

Code	
32004	20/120

3 ALL-PURPOSE BRUSHES
• УНИВЕРСАЛЬНЫЕ ЩЕТКИ
• UNIVERSALBÜRSTEN



• Bristle: copper, steel, nylon
• Plastic handles

Code	Size	Set (pcs.)		
32018	180	3	x	24/240
32023	230	3	x	30/60

4 SCREW EXTRACTOR SET
• ВЫВЕРТКИ ДЛЯ ВИНТОВ
• SCHRAUBENAUSDREHER



• Delivered in plastic box

Code	Range Ø (mm)		
32050	3.3 - 19.0	x	25/100

5 HAND TAPS
• МЕТЧИКИ
• HANDGEWINDEBOHRER



• Carbon steel
• Delivered in sets of 3, No. 1, 2, 3

Code	Size	
67003	M3	40/400
67004	M4	40/400
67005	M5	40/400
67006	M6	40/400
67008	M8	20/400
67010	M10	10/200
67012	M12	10/200

6 DIES
• ПЛАШКИ
• SCHNEIDEISEN



• Carbon steel

Code	Size	External diameter (mm)	
67103	M3	25	20/600
67104	M4	25	20/600
67105	M5	25	20/600
67106	M6	25	20/600
67108	M8	25	20/600
67110	M10	25	20/600
67112	M12	25	20/600

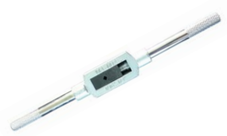
7 TAPS AND DIES 24 PCS. SET
• НАБОР МЕТЧИКОВ И ПЛАШЕК – 24 ШТ.
• GEWINDEBOHRER UND SCHNEIDEISEN - SET 24 TLG.



• Carbon steel
• The set includes taps and dies: 5 x 0.8, 5 x 0.9, 6 x 0.75, 6 x 1, 8 x 1, 8 x 1.25, 10 x 1.25, 10 x 1.5, 12 x 1.75, 12 x 2, 1/8 NPT 27 - po 1 pcs.
• Tap wrench - 1 pc., die holder - 1 pc.

Code	Range (mm)	Quantity (pcs.)	
67224	5 - 12	24	20

8 TAP WRENCH
• ВОРОТОК ДЛЯ МЕТЧИКА
• KNEBELGRIFF FÜR GEWINDEBOHRER



Code	For taps		
67000	M3 - M12	x	50/100

9 DIE HOLDER
• ВОРОТОК ДЛЯ ПЛАШЕК
• SCHNEIDEISENHALTER



• For dies with external dia. 25 mm

Code	Size		
67100	M3 – M12	x	50

10 THREADING SET
• НАБОР ВИНТОНАРЕЗНЫХ ГОЛОВОК ДЛЯ ТРУБ
• GEWINDEBOHRER-SET



• The set includes: threaders dia. 3/8", 1/2", 3/4", 1", 1 ¼", ratchet, handle, extender

Code	Diameter	
67205	3/8" - 1 ¼"	4

1 HOBBY VICE
• ТИСКИ ДЛЯ МОДЕЛИРОВАНИЯ • HOBBY-SCHRAUBSTOCK



25mm

• Cast iron vice with anvil and rotating base

Code	Size (mm)	
25325	25	50
25340	40	50
25360	60	20

2 BOLT CUTTERS
• НОЖНИЦЫ ДЛЯ ПРУТКОВ • BOLZENSCHNEIDER



• Adjustable gripping force

Code	Size (mm)	Ø max. (mm)	
17045	450	8	20
17060	600	10	10
17075	750	13	5

3 STRAIGHT TINMAN'S SNIPS
• ЛИСТОВЫЕ ПРЯМЫЕ НОЖНИЦЫ • BLECHSCHERE GERADE



Code	Size (mm)	
17001	250	10/40

4 AVIATION SNIPS
• НОЖНИЦЫ ПО МЕТАЛЛУ ШАРНИРНЫЕ
• GELENKSCHERE

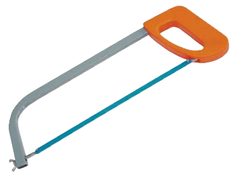


CrV

Code	Size (mm)	Type		
17011	250	straight	x	6 / 48
17012	250	right	x	6 / 48
17013	250	left	x	6 / 48



5 HACKSAW FRAME
• НОЖОВКА ПО МЕТАЛЛУ • METALLBÜGELSÄGE



• Made from a rectangular profile, coated
• Plastic handle

Code	Size (mm)	
23102	300	48

6 MINI HACKSAW FRAME
• МИНИНОЖОВКА ПО МЕТАЛЛУ
• MINI -METALLBÜGELSÄGE



• Plastic handle

Code	Size (mm)	
23005	150	50/200

1 MINI HACKSAW FRAME

- МИНИНОЖОВКА ПО МЕТАЛЛУ
- MINI -METALLBÜGELSÄGE



- Plastic handle

Code	Size (mm)		
23000	150	x	20/300

2 HACKSAW BLADES

- НОЖОВОЧНЫЕ ПОЛОТНА ПО МЕТАЛЛУ
- METALLSÄGEBLATT

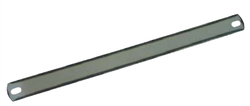


- One-sided • Carbon steel • Coated
- Delivered in the box of 72 pcs.

Code	Size (mm)	Quantity (pcs.)	
23018L	300 x 12.5	72	20

3 HACKSAW BLADES

- НОЖОВОЧНЫЕ ПОЛОТНА ПО МЕТАЛЛУ
- METALLSÄGEBLAT



- Two-sided • Carbon steel
- Delivered in the box of 36 pcs.

Code	Size (mm)	Quantity (pcs.)	
23118K	300 x 25	36	2/20

4 BOW SAWS

- ЛУЧКОВЫЕ ПИЛЫ
- BÜGELSÄGEN



- For wood cutting

Code	Size (mm)	
64160	600	24

5 MITRE BOX

- ПЛАСТИКОВОЕ СТУСЛО С НОЖОВКОЙ
- GEHRUNGSLADE HÖLZERN



- For cutting at the angles 45° and 90° • Measuring scale with mitre saw 300 mm long

Code	Length (mm)	Max. width of cut strips (mm)	
23300	300	65	50

6 MITRE SAW

- УГЛОТОРЦОВОЧНАЯ НАСТОЛЬНАЯ ПИЛА
- GEHRUNGSSÄGE



- Saw for cutting at different angles up to 45°
- Blade 550 mm • Adjustable cutting depth
- Clamps for the cut material • Angular scale on a base
- Max. cutting width for 45° - 115 mm, 90° - 125 mm with clamping, 170 mm without clamping
- Max cutting height: ~ 100 mm

Code	Blade length (mm)	BOX	
64000	550	x	4

7 SPRING CLAMPS

- ПРУЖИННЫЕ ЗАЖИМЫ
- FEDERKLEMMEN

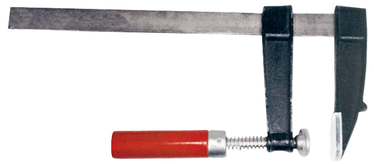


- Made from nylon and glass fibre
- Quenched pressure spring
- Heavy and quick clamping

Code	Size (mm)	
11000	110	10/100
11001	165	20/120
11002	225	72

1 F-TYPE QUICK ACTION CLAMPS

- СТОЛЯРНЫЕ СТРУБЦИНЫ
- ZWINGE TYP F



- Fast sliding • Wooden handle

Code	Size (mm)		Code	Size (mm)	
11010	100 x 50	50	**11031**	300 x 120	10
11015	150 x 50	50	**11051**	500 x 120	10
11020	200 x 50	50	**11081**	800 x 120	10
11025	250 x 50	50	**11101**	1000 x 120	10
11030	300 x 50	50	**11121**	1200 x 120	10

2 WOOD CHISELS

- НАБОР СТАМЕСОК
- HOLZMEISSEL



- Plastic handles
- Truncated side edges
- Delivered in plastic case

Code	Widths (mm)	
19004	6, 12, 18, 24	40

3 WOOD CHISELS

- СТАМЕСКИ
- HOLZMEISSEL



- Plastic handles
- Truncated side edges
- Delivered in plastic case

Code	Width (mm)	
19006	6	12/120
19008	8	12/120
19010	10	12/120
19012	12	12/120
19014	14	12/120
19015	15	12/120
19016	16	12/120
19018	18	12/120
19020	20	12/120
19022	22	12/120
19025	25	12/120
19032	32	12/120
19038	38	12/120

4 HSS METAL DRILLS

- СВЕРЛА
- METALLBOHRER HSS



HSS

- Delivered in a metal box

Code	Range (mm)	Quantity (pcs.) in the set	
26219	1-10 co 0.5	19	40

5 HSS TIN METAL DRILLS

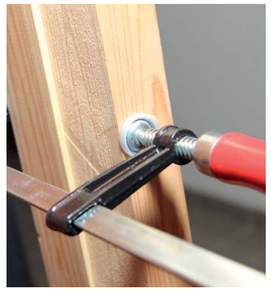
- НАБОР СВЕРЕЛ ПО МЕТАЛЛУ ИЗ БЫСТРОРЕЖУЩЕЙ СТАЛИ HSS – 19 ШТ.
- METALLBOHRER HSS TIN



HSS TiN

- HSS coated with titanium nitride
- Delivered in a metal box

Code	Range (mm)	Quantity (pcs.) in the set	
26719	1-10 po 0.5	19	20



6 HSS TWIST DRILL SETS

- НАБОРЫ СВЕРЕЛ ПО МЕТАЛЛУ ИЗ БЫСТРОРЕЖУЩЕЙ СТАЛИ HSS • METALLBOHRER - SET



HSS

- Delivered in plastic box

Code	Range (mm)	Quantity (pcs.) in the set	
26313	1.5-6.5 po 0.5 + 3.2, 4.8	13	100
26213	2.0-8.0 po 0.5	13	10/60

MEGA® DOBRY WYBÓR

1 SDS PLUS CONCRETE DRILLS

• СВЕРЛА ПО БЕТОНУ SDS PLUS
• BETONBOHRER SDS PLUS





SDS plus

• Tungsten carbide tipped (TCT) edge with enlarged centering tip that allows drilling without walking
• Quick removal of cuttings from the hole • For use in non-reinforced concrete, natural stone, brick, masonry walls • Supplied individually in hanging packaging

Code	Diameter (mm)	Total length (mm)	
80411	4	110	25/250
80416	4	160	25/200
80511	5	110	25/250
80516	5	160	25/200
80611	6	110	25/250
80616	6	160	25/200
80621	6	210	25/100
80626	6	260	25/100
80811	8	110	25/250
80816	8	160	25/200
80821	8	210	25/100
80826	8	260	25/100
80830	8	300	25/100
80835	8	350	25/100
80840	8	400	25/100
80845	8	450	25/100
81011	10	110	25/250
81016	10	160	25/200
81021	10	210	25/100
81026	10	260	25/100
81030	10	300	25/100
81035	10	350	25/100
81040	10	400	25/100
81045	10	450	25/100
81060	10	600	20/40
81211	12	110	25/250
81216	12	160	25/200
81221	12	210	25/100
81226	12	260	25/100
81230	12	300	25/100
81235	12	350	25/100
81240	12	400	25/100
81245	12	450	25/100
81260	12	600	20/40
81280	12	800	20/40
81316	13	160	25/200
81326	13	260	25/100
81335	13	450	25/100
81416	14	160	25/100
81421	14	210	25/100
81426	14	260	25/100
81430	14	300	25/100
81440	14	400	25/100
81445	14	450	20/40

Code	Diameter (mm)	Total length (mm)	
81460	14	600	20/40
81616	16	160	20/80
81621	16	210	20/80
81626	16	260	20/80
81630	16	300	20/80
81635	16	350	20/40
81640	16	400	20/40
81645	16	450	20/40
81660	16	600	20/40
81680	16	800	20/40
81821	18	210	10/20
81826	18	260	10/20
81835	18	850	10/20
81840	18	400	10/20
81845	18	450	10/20
81860	18	600	10/20
82021	20	210	10/20
82026	20	260	10/20
82030	20	300	10/20
82040	20	400	10/20
82045	20	450	10/20
82060	20	600	10/20
82080	20	800	10/20
82221	22	210	10/20
82226	22	260	10/20
82230	22	300	10/20
82240	22	400	10/20
82245	22	450	10/20
82260	22	600	10/20
82280	22	800	10/20
82426	24	260	10/20
82440	24	400	10/20
82460	24	600	10/20
82480	24	800	10/20
82530	25	300	10/20
82545	25	450	10/20
82560	25	600	10/20
82626	26	260	10/20
82640	26	400	10/20
82660	26	600	10/20
82840	28	400	5/10
82860	28	600	5/10
82880	28	800	5/10

2 SDS PLUS CONCRETE DRILLS

• НАБОРЫ СВЕРЕЛ ПО БЕТОНУ SDS PLUS
• BETONBOHRER SDS PLUS



SDS plus

• Delivered in plastic box

Code	Quantity (pcs.) in the set	Composition: (mm)	
81003	3	6, 8, 10 x 110	25/50
81005	5	5, 6 x 110 8, 10, 12 x 160	20/40
81005A	5	5, 6, 8, 10, 12 x 160	20/40
81006	6	6, 8, 10 x 110 6, 8, 10 x 160	20/40

3 SDS PLUS CONCRETE CHISELS

• ПЛОСКИЕ ЗУБИЛА ПО БЕТОНУ SDS PLUS
• BETONMEISSEL SDS PLUS



SDS plus

Code	Size (mm)	Width (mm)	
81702	250 x 17	20	25/50
81704	250 x 17	40	25/50

4 SDS PLUS CONCRETE POINT CHISEL

• ПИКООБРАЗНЫЕ ЗУБИЛА ПО БЕТОНУ SDS PLUS
• BETONLOCHEISEN SDS PLUS



SDS plus

Code	Width (mm)	
81701	250 x 17	25/50

1 SDS PLUS GROOVE CHISEL

- КАНАВОЧНЫЕ ЗУБИЛА ПО БЕТОНУ SDS PLUS
- BETONKANALMEISSEL SDS PLUS



SDS plus

Code	Size (mm)	Width (mm)	
81703	250 x 17	17	25/50

2 SDS PLUS CHUCK ADAPTER

- АДАПТЕР (ПЕРЕХОДНИК) SDS PLUS НА СВЕРЛИЛЬНЫЙ ПАТРОН
- ADAPTER SDS PLUS



SDS plus

- Thread ½"
- SDS plus chuck with a counter bolt

Code	
80001	50/200

3 CONCRETE CROWN SAWS

- КОРОНЧАТЫЕ СВЕРЛА ПО БЕТОНУ
- LOCHSÄGE FÜR BETON



- Carbide teeth
- Thread M22
- Delivered in plastic tube

Code	Diameter (mm)	
82965	65	10/40
82980	80	10/20

4 HOLE SAW ADAPTER HEX CHUCK

- ЦЕНТРОВОЧНОЕ СВЕРЛО ДЛЯ КОРОНОК
- LOCHSÄGENADAPTER, SECHSECKIGER GRIFF



- For hole saws 82965, 82980
- Hex shank 13 mm
- Thread M22
- With a drill guide 8 mm
- Delivered in plastic tube

Code	Length (mm)	
82982	160	10/40

5 HOLE SAW ADAPTER SDS PLUS CHUCK

- ЦЕНТРОВОЧНОЕ СВЕРЛО ДЛЯ КОРОНОК
- LOCHSÄGENADAPTER, GRIFF SDS PLUS

- For hole saws 82965, 82980
- SDS plus chuck
- Thread M22
- With a drill guide 8 mm
- Delivered in plastic tube

SDS plus

Code	Length (mm)	
82985	100	10/40
82986	160	10/40

6 CONCRETE DRILLS

- НАБОР СВЕРЕЛ ПО БЕТОНУ
- BETONBOHRER



- Cylindrical grip • Delivered in plastic case

Code	Quantity (pcs.)	Sizes (mm)	
16525	5	4, 5, 6, 8, 10	50/200
16528	8	3, 4, 5, 6, 7, 8, 9, 10	50/100

7 WOOD DRILL SETS

- НАБОРЫ СВЕРЕЛ ПО ДЕРЕВУ
- HOLZBOHRER - SET



- Delivered in plastic case

Code	Quantity (pcs.)	Sizes (mm)	
26205	5	4, 5, 6, 8, 10	50/200
26208	8	3, 4, 5, 6, 7, 8, 9, 10	30/120

8 FLAT WOOD DRILLS - SET OF 6 PCS

- НАБОР ПЕРЬЕВЫХ СВЕРЕЛ ПО ДЕРЕВУ – 6 ШТ.
- HOLZSPATENBOHRER - SET 6 TLG.



- Delivered in plastic case

Code	Quantity (pcs.)	Sizes (mm)	
26406	6	10, 12, 16, 18, 20, 25	25/100

9 HSS, MASONRY AND WOOD DRILL SET

- НАБОРЫ СВЕРЛ ПО МЕТАЛЛУ, БЕТОНУ И ДЕРЕВА
- HSS-, MAUER- UND HOLZBOHRER-SET



- Includes drill bits for metal, concrete and wood: 4, 5, 6, 8, 10 mm (3 pcs each)

Code	Quantity (pcs.)	
47010	15	30

MEGA® DOBRY WYBÓR

1 HOLE SAW SET MADE FROM HIGH-CARBON STEEL (HCS) FOR WOOD (8 PCS.)

- НАБОР КОРОНЧАТЫХ ПИЛ ДЛЯ ОТВЕРСТИЙ
- KNABBER FÜR BOHRUNGEN IN HOLZ



- Made of high carbon steel • The set includes: 8 cross-bits; Ø 19 mm, 22 mm, 28 mm, 32 mm, 38 mm, 44 mm, 51 mm, 64 mm; pilot drill 6 mm; adapter - 2 pcs.; driver; hex wrench
- For cutting holes in wood, gypsuboard panels - up to 25 mm deep

Code	Quantity (pcs.)	Size (mm)	
26409	8	19 - 64	30

2 HOLE SAW SET MADE FROM HIGH-CARBON STEEL (HCS) FOR WOOD (5 PCS.)

- НАБОР КОРОНЧАТЫХ ПИЛ ДЛЯ ОТВЕРСТИЙ
- KNABBER FÜR BOHRUNGEN IN HOLZ



- Made of high carbon steel • The set includes: 5 cross-bits; Ø 64 mm (2½"), 76 mm (3"), 89 mm (3½"), 102 mm (4"), 127 mm (5"); pilot drill 6 mm; adapter; driver; hex wrench • For cutting holes in wood, gypsuboard panels - up to 25 mm deep

Code	Quantity (pcs.)	Range	
26408	5	64 - 127	30

3 HOLE SAWS

- НАБОРЫ КОРОНЧАТЫХ ПИЛ ДЛЯ ОТВЕРСТИЙ
- LOCHSÄGEN



- Quenched teeth • The set includes 7 hole saws Ø: 26, 32, 38, 45, 50, 56, 63 mm, pilot drill 6 mm and a disc chuck

Code	Height of (mm)	Range (mm)	
26404	25	26 - 63	10/100
26405	50	26 - 63	10/50

4 HOLE SAWS

- НАБОРЫ КОРОНЧАТЫХ ПИЛ ДЛЯ ОТВЕРСТИЙ – 7 ШТ.
- LOCHSÄGEN



- The set includes 7 hole saws Ø: 26, 32, 38, 45, 50, 56, 63 mm,pilot drill 6 mm and a disc chucky

Code	Height of (mm)	Range (mm)	
26401	25	26 - 63	100
26402	50	26 - 63	10/50

5 WOLFRAM HOLE SAW SET

- НАБОР КОРОНЧАТЫХ ПИЛ С ВОЛЬФРАМОВЫМ НАСЫПОМ
- LOCHSÄGEN MIT WOLFRAMAUFSCHÜTTUNG



- The set includes: hole saws Ø 33, 53, 67, 73 mm; pilot drill with carbide; disc chuck

Code	Height of (mm)	Range (mm)	
26434	55	33 - 73	5/20

6 HOLE SAWS

- НАБОРЫ КОРОНЧАТЫХ БИМЕТАЛЛИЧЕСКИХ ПИЛ ДЛЯ ОТВЕРСТИЙ • LOCHSÄGEN



- Bimetallic hole saws • 7 pieces
- 26437 – Ø 19, 29, 33, 51, 68 mm
- 26438 – Ø 38, 44, 51, 57, 64 mm
- The set includes a body with a pilot drill
- Delivered in cardboard box

Code	Wysokość (mm)	Range	
26437	44	19 - 68	10
26438	44	38 - 64	10

7 PROFILED CUTTERS

- ТВЕРДОСПЛАВНЫЕ ФРЕЗЫ
- PROFILFRÄSEN



- Mandrels Ø 6 mm

Code	Quantity (pcs.) in the set		
44915	5	x	25/100

1 DRILLING STAND

- ШТАТИВ ДЛЯ ДРЕЛИ
- BOHRMASCHINENSTÄNDER



- Metal stand
- Fixing diameter Ø 43 mm with presser
- Max. feed on the guide 60 mm

Code	Height (mm)	
33730	400	10

2 DRILL STAND

- ШТАТИВ ДЛЯ ДРЕЛИ
- BOHRMASCHINENSTÄNDER



- Metal stand
- Fixing diameter Ø 43 mm with presser
- Boring depth limiter

Code	Height (mm)	
33732	400	10

3 GRINDER STAND

- ШТАТИВ ДЛЯ УГЛОШЛИФОВАЛЬНОЙ МАШИНЫ
- SCHLEIFERSTÄNDER



- Metal stand

Code	Grinder disc diameter (mm)	
33715	115 / 125	10

4 GRINDER STAND

- ШТАТИВ ДЛЯ УГЛОШЛИФОВАЛЬНОЙ МАШИНЫ
- SCHLEIFERSTÄNDER



- Metal stand

Code	Grinder disc diameter (mm)	
33723	230	6

5 GRINDER STAND

- ШТАТИВ ДЛЯ УГЛОШЛИФОВАЛЬНОЙ МАШИНЫ
- SCHLEIFERSTÄNDER



- Metal stand

Code	Grinder disc diameter (mm)	
33711	115 / 125	10

6 STEEL BRUSH SET

- НАБОР ДИСКОВЫХ ЩЕТОК ИЗ ВОЛНИСТОЙ ПРОВОЛОКИ
- STAHLBÜRSTEN-SET



- Brushes diameters: 25, 40, 50, 60, 75 mm
- Brass-covered wire • 3 madrels

Code	Quantity pcs. in a set		
32200	8	x	20/80

7 SEGMENTED DIAMOND DISCS

- АЛМАЗНЫЕ ДИСКИ СЕГМЕНТНЫЕ
- DIAMANT-SEGMENTSCHEIBEN



- For dry cutting of concrete, brick, clinker
- Hole 22.2 mm

Code	Diameter (mm)	Thickness x Height (mm)		
86515	115	1.9 x 6.8	x	100/200
86525	125	2.0 x 7.7	x	100/200
86580	180	2.4 x 7.2	x	50
86630	230	2.5 x 7.5	x	25

8 FULL DIAMOND DISCS

- АЛМАЗНЫЕ ДИСКИ ПОЛНЫЕ
- DIAMANT-VOLLSCHEIBEN



- For wet cutting of ceramics, tiles, clinker
- Hole 22.2 mm

Code	Diameter (mm)	Thickness x Height (mm)		
87510	110	1.9 x 5.0	x	100/200
87515	115	1.9 x 5.0	x	100/200
87525	125	2.0 x 5.0	x	100/200
87580	180	2.2 x 5.0	x	50
87630	230	2.4 x 5.0	x	25

9 TURBO DIAMOND DISCS

- АЛМАЗНЫЕ ДИСКИ TURBO
- DIAMANT-SCHEIBEN TURBO



- For cutting heavy-duty concrete, stone, floor and wall tiles • Hole 22.2 mm

Code	Diameter (mm)	Thickness x Height (mm)		
88515	115	2.2 x 7.0	x	100/200
88525	125	2.4 x 7.0	x	100/200
88580	180	2.6 x 7.0	x	50
88630	230	2.8 x 7.0	x	25

1 METAL CUTTING DISCS

- ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА
- TRENNSCHEIBE FÜR METALLE



- For steel cutting • Flat disc

Code	Size (mm)	Hole (mm)	Typ	
44311	115 x 2.5	22.2	A30S	25/100
44312	125 x 2.5	22.2	A30S	25/200
44323	230 x 2.5	22.2	A30S	10/50

2 GRINDING STONES

- НАБОР ШЛИФОВАЛЬНЫХ КАМНЕЙ – 5 ШТУК
- SCHLEIFSTEINE



- Mandrels Ø 6 mm

Code	Diameter (mm)		
44905	5	x	30/120

3 GRINDING STONES

- НАБОР ШЛИФОВАЛЬНЫХ КАМНЕЙ – 10 ШТУК
- SCHLEIFSTEINE



- Pins Ø 3 mm - 5 pcs. and Ø 6 mm - 5 pcs.

Code	Diameter (mm)		
44910	10	x	30/120

4 METAL STAPLE GUN / TACKER

- РУЧНОЙ СКОБОЗАБИВАТЕЛЬ
- METALLTACKER



- Adjustable staple pressure force
- For staples type 53

Staples 53	Staples		Height L (mm)
	Proline	Mega	
	55306	55206	6
	55308	55208	8
	55310	55210	10
	55312	55212	12
	55314	55214	14



Code	Size (mm)		
55014	4 - 14	x	20/40

5 QUENCHED STAPLES TYPE 53

- ЗАКАЛЕННЫЕ СКОБЫ ТИПА 53
- GEHÄRTETE TACKERKLAMMERN TYP 53



- Sold in packs of 1000 pcs.
- For staple guns: 55024, 55028, 55014

Staple equivalents:

- arrow®jt-21 • stanley#a/53 • esco#530
- kwb#053 • novus#53 • rapid#53
- rocafix#3

Code	Staples 53	Height L (mm)		
55206		6	x	50/200
55208		8	x	50/200
55210		10	x	50/200
55212		12	x	50/200
55214		14	x	50/200

6 CLAMPS

- ПЛАСТИКОВЫЕ ХОМУТЫ
- KLEMMSCHELLEN



- White

Code	Thick-ness (mm)	Length (mm)	Quan-tity (pcs.)		
59210B	2.5	100	100	x	250/500
59220B	2.5	200	100	x	100/200
59230B	3.6	300	100	x	75/150



- Black

Code	Thick-ness (mm)	Length (mm)	Quan-tity (pcs.)		
59210C	2.5	100	100	x	250/500
59220C	2.5	200	100	x	100/200
59230C	3.6	300	100	x	75/150

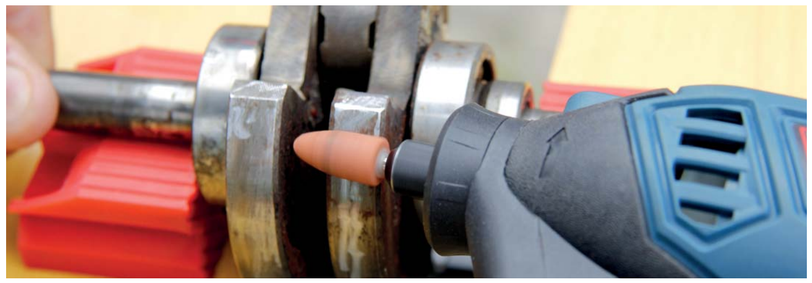
7 RIVETER

- ЗАКЛЕПОЧНИК
- NIETZANGE



- For aluminium blind rivets Ø 2.4, 3.2, 4.0, 4.8 mm • Rubber covers
- Bent lever

Code	Rivet size Ø (mm)		
14001	2.4 – 4.8	x	6/36



1 TWO WAY RIVETER

- ЗАКЛЕПОЧНИК ДВУХСТОРОННЕГО НАПРАВЛЕНИЯ
- ZWEI-WEGE-NIETMASCHINE



- The riveter head works at 90° and 180° • For 2.4, 3.2, 4.0, 4.8 mm aluminium blind rivets
- Rubber sockets

Code	Rivet size Ø (mm)		
14002	2.4 – 4.8	x	6/24

2 LEVER RIVETER

- ЗАКЛЕПОЧНИК РЫЧАЖНЫЙ
- HEBELNIETZANGE



- For aluminium blind rivets Ø 2.4, 3.2, 4.0, 4.8 mm

Code	Rivet size Ø (mm)		
14005	2.4 – 4.8	x	12

3 BLIND RIVETS

- АЛЮМИНИЕВЫЕ ЗАКЛЕПКИ
- ALUMINIUM BLINDNIETE





- Delivered in a plastic bag 50 pcs.

Code	Ø x L (mm)	Quantity (pcs.)		
59307	3.2 x 7.0	50	x	25/250
59310	3.2 x 10.0	50	x	25/200
59312	3.2 x 12.0	50	x	25/200
59408	4.0 x 8.0	50	x	25/200
59410	4.0 x 10.0	50	x	25/200
59412	4.0 x 12.0	50	x	25/200
59416	4.0 x 16.0	50	x	25/200
59418	4.0 x 18.0	50	x	25/200
59508	4.8 x 8.0	50	x	25/200
59510	4.8 x 10.0	50	x	25/200
59512	4.8 x 12.0	50	x	25/150
59514	4.8 x 14.0	50	x	25/150
59518	4.8 x 18.0	50	x	25/150
59523	4.8 x 23.0	50	x	25/100

- Delivered in plastic box

Code	Ø x L (mm)	Quantity (pcs.)	
59399	3.2 x 10.0	1000	20
59499	4.0 x 12.0	800	16
59599	4.8 x 10.0	500	16

4 TRANSFORMER SOLDERING GUN 150 W

- ТРАНСФОРМАТОРНЫЙ ПАЯЛЬНИК 150ВТ
- TRANSFORMATORLÖTMASCHINE 150 W



- Voltage 230 V

Code	Power (W)	
60070	150	20

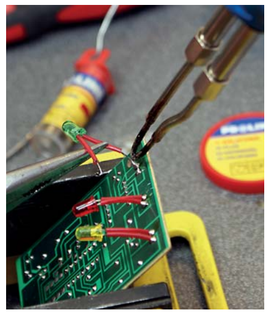
5 TRANSFORMER SOLDERING GUN 100 W

- ТРАНСФОРМАТОРНЫЙ ПАЯЛЬНИК 100ВТ
- TRANSFORMATORLÖTMASCHINE 100 W



- Voltage 230 V

Code	Power (W)	
60069	100	20



1 RESISTANCE SOLDERING GUNS

- ПАЯЛЬНИКИ
- WIDERSTANDSLÖTMASCHINEN



- Voltage 230 V • With a metal support

Code	Power [W]	
60072	25	25/50
60074	40	25/50
60076	60	25/50
60080	100	25/50

2 SOLDERING UNIT BITS 60070

- НАБОР НАКОНЕЧНИКОВ ДЛЯ ТРАНСФОРМАТОРНОГО ПАЯЛЬНИКА – 3 ШТУКИ
- LÖTSPITZEN 60070



- For soldering unit 60070
- Sold in sets of 3 pcs.

Code	Quantity in a set (pcs.)	
60090	3	100/500

3 SOLDERING UNIT BITS 60069

- НАБОР НАКОНЕЧНИКОВ ДЛЯ ТРАНСФОРМАТОРНОГО ПАЯЛЬНИКА – 3 ШТУКИ
- LÖTSPITZEN 60069



- For soldering unit 60069
- Sold in sets of 3 pcs.

Kód	Quantity in a set	
60089	3	100/500

4 GAS TORCH

- MINI ГАЗОВЫЙ ПАЯЛЬНИК - РУЧКА
- GASBRENNER



- Used for melting, soldering of silvel, gold, copper, aluminium, tin, glass tubes and other materials with low thermal capacity

Code	Temp.		
60030	1300°C	x	25/100

5 AIR INFLATOR WITH PRESSURE GAUGE

- ПНЕВМАТИЧЕСКИЙ ПИСТОЛЕТ ДЛЯ ПОДКАЧКИ КОЛЕС С МАНОМЕТРОМ
- PISTOLE FÜR DAS AUFPUMPEN VON REIFEN MIT MANOMETER



- Pressure gauge dia. 63 mm with hose 40 cm long • Max. air pressure 6 Bar
- Quick acting unit 1/4"

Code		
66246	x	20/40

6 CLEANING GUN

- ПНЕВМАТИЧЕСКИЙ МОЕЧНЫЙ ПИСТОЛЕТ
- PISTOLE ZUM WASCHEN



- With container 0.9 litre
- Max. air pressure 6 Bar
- For all fluid types
- Quick acting unit 1/4"
- Compressed air consumption

Code		
66247	x	1/20

7 AIR SPRAY GUN

- ПНЕВМАТИЧЕСКИЙ КРАСКОПУЛЬТ
- LACKIERPISTOLE



- With lower container vol. 1 litre
- Max. air pressure 3 Bar
- Adjustable paint flow
- Compressed air consumption 200 l/min.
- Quick acting unit 1/4"

Code	
66244	10

8 AIR SPRAY GUN

- ПНЕВМАТИЧЕСКИЙ КРАСКОПУЛЬТ
- LACKIERPISTOLE



- With upper container vol. 0.6 litre
- Max. air pressure 3 Bar
- Compressed air consumption 200 l/min.
- Adjustable paint flow
- Quick acting unit 1/4"

Code	
66245	20

9 AIR GUN KIT

- НАБОР ПРИНАДЛЕЖНОСТЕЙ ДЛЯ КОМПРЕССОРА
- LACKIERSET



- The set includes: air inflator with pressure gauge, air-purge gun, cleaning gun, air spray gun (for any paint type), spiral hose 5 m
- Quick acting unit 1/4"

Code	
66243	10

1 COIL HOSES

• СПИРАЛЬНЫЕ ШЛАНГИ
• SPIRALSCHLAUCH



• With quick acting units attached for hoses with tips 6/8 mm

Code	Length (mm)	
66250	5	50
66251	10	50
66252	15	20
66253	20	20

2 CLOSE SHACKLE BRASS PADLOCKS

• НАВЕСНЫЕ ЛАТУННЫЕ СТЕРЖНЕВЫЕ ЗАМКИ
• BOLZENSCHLÖSSER, MESSING



• Quenched bolt • 3 keys

Code	Size (mm)		
24550	50		6/72
24565	65		6/60
24575	75		6/48
24590	90		6/36
24550K	50	x	12/96
24565K	65	x	12/60
24575K	75	x	12/48
24590K	90	x	12/36

3 BRASS PADLOCKS

• НАВЕСНЫЕ ЛАТУННЫЕ ЗАМКИ • MESSINGSCHLÖSSER



• Quenched shackle

Code	Size (mm)		
24232	32		12/240
24240	40		12/120
24250	50		6/72
24263	63		6/60
24232K	32	x	12/240
24240K	40	x	12/120
24250K	50	x	6/72
24263K	63	x	6/60

4 QUENCHED CAST IRON PADLOCKS

• НАВЕСНЫЕ ЧУГУННЫЕ ЗАМКИ
• GUSSEISENSCHLÖSSER, GEHÄRTET



• Quenched shackle

Code	Size (mm)		
24432	32		12/240
24440	40		12/240
24450	50		6/120
24463	63		6/60
24475	75		6/36
24432K	32	x	6/240
24440K	40	x	6/240
24450K	50	x	6/120
24463K	63	x	6/60
24475K	75	x	6/36

5 STEEL CABLE LOCKS

• НАВЕСНЫЕ СТАЛЬНЫЕ ТРОСЫ -ЗАМКИ
• ANTI-EINBRUCH-STAHLLEINEN

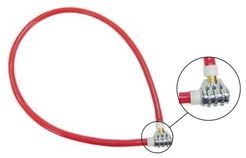


• PVC-coated rope
• Lock with a key
• 24901 - chromium-plated lock
• 24902 - coated lock

Code	Length (mm)		
24901	550	x	10/120
24902	550	x	10/120

6 STEEL CABLE LOCKS

• НАВЕСНЫЕ СТАЛЬНЫЕ ТРОСЫ -ЗАМКИ
• ANTI-EINBRUCH-STAHLLEINEN



• PVC-coated rope
• Chromium-plated 3-digit cipher lock

Code	Length (mm)		
24905	550	x	30/120

7 STEEL CABLE LOCK

• НАВЕСНОЙ СТАЛЬНОЙ ТРОС -ЗАМОК
• ANTI-EINBRUCH-STAHLLEINE



• PVC-coated rope • Lock with a key, coated
• A tip for installing on the tube, e.g. under the saddle

Code	Size (mm)		
24903	6 x 800	x	120

8 ASSYMMETRIC LOCK CYLINDERS

• ЦИЛИНДРИЧЕСКИЕ СЕРД ЦЕВИНЫ ДЛЯ ЗАМКА
• ZYLINDEREINSÄTZE



• Brazen • Assymmetric • 3 keys

Code	Size (mm)		
24670	70 mm (30 / 40)		12/120
24670K	70 mm (30 / 40)	x	12/120

9 LOCK CYLINDERS

• ЦИЛИНДРИЧЕСКИЕ СЕРД ЦЕВИНЫ ДЛЯ ЗАМКА
• ZYLINDEREINSÄTZE



• Brazen • Symmetric • 3 keys

Code	Size (mm)		
24662	62		12/120
24662K	62	x	12/120

10 LOCK CYLINDERS

• ЦИЛИНДРИЧЕСКИЕ СЕРД ЦЕВИНЫ ДЛЯ ЗАМКА
• ZYLINDEREINSÄTZE



• Quenched bolt • 6 keys

Code	Size (mm)		
24666	62		12/120
24666K	62	x	12/120

1 RUBBER TIE-DOWN SETS

• РЕЗИНКИ ДЛЯ БАГАЖНИКА
• KOFFERRAUMSPANNGURTE



• Coated, stretchy rubber rope with metal hooks

Code	Length (cm)	Set pcs.		
24778	80	2	x	100
24780	100	2	x	144

2 RATCHET TIE-DOWN TAPE

• ЛЕНТА -ФИКСАТОР ГР УЗА • GEPÄCKSPANNGURT

• With tensioner

Code	Length (cm)	Width (mm)		
24785	5	25	x	48

3 BOOSTER CABLES

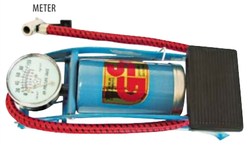
• СТАРТОВЫЕ ПРОВОДА „ДЛЯ ПРИКУРИВАНИЯ " • STARTERKABEL



Code	Current (A)	Length (m)		
24712	120	2.4	x	20

4 FOOT PUMP WITH GAUGE

• НОЖНОЙ НАСОС С МАНОМЕТРОМ • FUSSPUMPE MIT MANOMETER



Code	Max pressure (atm)		
24760	3	x	25

5 TARPAULINS

• ПОКРЫВОЧНЫЕ ТЕНТЫ
• ABDECKPLANE



Code	Dimensions (m +/- 5%)	
46323	2x3	50
46335	3x5	20
46345	4x5	10
46346	4x6	12
46358	5x8	8
46361	6x10	5
46381	8x12	3
46311	10x15	2

6 CRYPTON TORCH

• КРИПТОНОВЫЙ ФОНАРИК
• KRYPTON-TASCHENLAMPE



RUBBER KRYPTON 2 x D 2 x 1.5 V d.c.

• Non-slip rubber casing
• With two D-type batteries
• Designed for use in various weather conditions

Code	Length (mm)	Work mode		
51017	190	100% continuous light	x	10/50

7 LED TORCH

• ФОНАРИК LED
• LED-TASCHENLAMPE



RUBBER LED x 3 2 x AA 2 x 1.5 V d.c.

• Non-slip rubber casing
• With two AA batteries
• Designed for use in various weather conditions

Code	Length (mm)	Work mode		
51028	160	100% continuous light	x	24/48

8 LED TORCH

• ФОНАРИК LED
• LED-TASCHENLAMPE



LED x 13 2 x D 2 x 1.5 V d.c.

• With two D-type batteries
• Source of light - 13 LEDs

Code	Length (mm)	Work mode		
51022	170	100%	x	6/24

9 LED TORCH

• ФОНАРИК LED
• LED-TASCHENLAMPE



LED 24+3 3 x AAA 3 x 1.5 V d.c.

• Magnetic holder and a hook to facilitate fixing • With three AAA batteries
• Additional LEDs for spot lighting
• Source of light 24 + 3 LEDs

Code	Length (mm)	Work mode		
51027	120	100%	x	20/80

10 LED TORCH

• ФОНАРИК LED
• LED-TASCHENLAMPE



LED x 24 2 x AA 2 x 1.5 V d.c.

• Magnetic holder and a hook to facilitate fixing
• With two AA batteries
• Source of light 24 LEDs

Code	Length (mm)	Work mode		
51026	210	100%	x	20/60

1 HIGH POWER LED HEAD TORCH

• ФОНАРИК HIGH POWER LED
• STIRNTASCHENLAMPE HIGH POWER LED



LED 1W | 100% 50% FLASH | HIGH POWER | 3 x AAA 3 x 1.5 V d.c.

- Rubber tape enabling to put the torch on your head
- Arm to change the lighting angle
- With three AAA batteries
- High-quality source of light POWER LED 1W

Code	Length (mm)	Work mode		
51024	90	100%/ 50%/flash	x	12 / 48

2 PORTABLE HALOGEN LAMP WITH STAND

• ЛАМПА ПЕРЕНОСНАЯ ГАЛОГЕННАЯ НА ШТАТИВЕ
• MOBILE HALOGENLAMPE MIT GRIFF UND STATIV



2 m | R7S J118 mm | IP44 | 230 V 50 Hz | MAX. 2x500 W

- Lamp on a stand 2x500W • Power supply: 220 ~ 240V/AC IP44 • Power frequency: 50-60Hz • High-pressure cast aluminium body, powder-coated • High-quality aluminium reflecting surface; tempered glass
- Max: 2x500W 118 mm R7x
- Stand adjustable in the range of: 85-178 cm
- 2m electrical cord with a plug

Code	Power (W)	Source of light	
66157	500	2x	2

3 WALL HALOGEN LAMPS

• ЛАМПЫ НАСТЕННЫЕ ГАЛОГЕННЫЕ • WANDHALOGENLAMPEN



R7S J78 mm | IP44 | 230 V 50 Hz

- Halogen lamp 150W / 500W • Power: 220 ~ 240V/AC IP44 • Supply frequency: 50-60Hz • High-pressure cast aluminium body, powder-coated
- High-quality aluminium reflecting surface; tempered glass • Max: 150W 78 mm R7x
- Max: 500W 118mm R7x • Work humidity: <93% RH

Code	Power (W)	Source of light	
66150	150	1x	20
66151	500	1x	20

4 PORTABLE HALOGEN LAMP WITH STAND

• ЛАМПА ПЕРЕНОСНАЯ ГАЛОГЕННАЯ НА ШТАТИВЕ
• MOBILE HALOGENLAMPE MIT GRIFF UND STATIV



2 m | R7S J78 mm | IP44 | 230 V 50 Hz | MAX. 500 W

- Lamp on a stand 2x500W • Power supply: 220 ~ 240V/AC IP44 • Power frequency: 50-60Hz • High-pressure cast aluminium body, powder-coated • High-quality aluminium reflecting surface; tempered glass
- Max: 1x500W 118 mm R7x
- Stand adjustable in the range of: 85-178 cm
- 2m electrical cord with a plug

Code	Power (W)	Source of light	
66156	500	1x	2

5 WALL HALOGEN LAMPS WITH MOTION DETECTOR

• ЛАМПЫ НАСТЕННЫЕ ГАЛОГЕННЫЕ С ДАТЧИКОМ ДВИЖЕНИЯ
• WANDHALOGENLAMPEN MIT SENSOR



IP44 | 230 V 50 Hz

- Halogen lamp with motion detector 150W / 500W • Power: 220 ~ 240V/AC IP44
- Power frequency: 50-60Hz
- High-pressure cast aluminium body, powdercoated
- High-quality aluminium reflecting surface; tempered glass
- Ambient light: <5Lux ~ 2000Lux (adjustable)
- Range: 12m • Delay time: 5sek ~ 8min (adjustable)
- Installation height: 1.8 ~ 2,5 m • Motion detection: 0.6-1.5m / s • Max: 150W 78 mm R7x • Max: 500W 118mm R7x
- Work humidity: <93% RH

Code	Moc (W)	Source of light	
66152	150	1x	10
66153	500	1x	10

6 PORTABLE HALOGEN LAMPS

• ЛАМПЫ ПЕРЕНОСНЫЕ ГАЛОГЕННЫЕ
• MOBILE HALOGENLAMPE MIT GRIFF UND STATIV



4.5 m | IP44 | 230 V 50 Hz

- Lamp with a handle 150W / 500W
- Power supply: 220 ~ 240V/AC IP44
- Power frequency: 50-60Hz
- High-pressure cast aluminium body, powdercoated
- High-quality aluminium reflecting surface; tempered glass • Max: 150W 118 mm R7x
- Max: 500W 118 mm R7x • Stand with adjustable lamp tilting, carrying handle
- 1.5 m electric cable with a plug

Code	Moc (W)	Source of light	
66154	150	1x	20
66155	500	1x	6

MEGA® DOBRY WYBÓR

1 WORKSHOP PORTABLE LAMP
• ЛАМПА ПЕРЕНОСНАЯ РЕМОНТНАЯ
• TRAGBARE WERKSTATT-LAMPE



Code	Power (W)		
EZ60WM	60	x	20

2 WORKSHOP PORTABLE LAMP
• ЛАМПА ПЕРЕНОСНАЯ РЕМОНТНАЯ
• TRAGBARE WERKSTATT-LAMPE



Code	Power (W)		
EZ60WP	60	x	10

3 LEATHER TOOL BELT
• ПОЯС ДЛЯ ИНСТРУМЕНТА (ПОЯС МОНТАЖНИКА)
• MONTAGEGURT, VERSTÄRKT, MIT TASCHEN



• Leather
• Two large and two small nail pockets, 6 tool pockets, 2 hammer loops, 1 measuring tape holder
• Delivered in a plastic bag with a hanger

Code	
52011	50

4 HAND PRUNER
• САДОВЫЙ СЕКАТОР
• GARTENSCHERE



• Max cutting diameter – 12 mm
• Quenched steel blade

Code	Length (mm)		
40005	200	x	12/72

5 HAND PRUNER
• САДОВЫЙ СЕКАТОР
• GARTENSCHERE



• Max cutting diameter – 15 mm
• Quenched steel blade

Code	Length (mm)		
40006	200	x	12/72

6 WIRE RAKE
• СТАЛЬНЫЕ ПРОВОЛОЧНЫЕ ГРАБЛИ
• DRAHTHARKE



• Steel rake • 15 teeth • Detachable
• Vinyl-coated metal lock

Code		
40090	x	12



JUCO



adjustable spanners
axes
chisels
crowbars
hammers
pliers
saw frames
shovels
snips
spades
splitting wedges
and many others...

1 COMBINATION PLIERS 1000V

• ПЛОСКОГУБЦЫ УНИВЕРСАЛЬНЫЕ 1000В ПОЛИРОВАННЫЕ
• KOMBIZANGE 1000V





• Ergonomic two-component PVC covers

Code	Size (mm)	
28590	160	10
28591	180	10
28592	200	10

2 COMBINATION PLIERS – 1000 V

• ЭЛЕКТРОТЕХНИЧЕСКИЕ УНИВЕРСАЛЬНЫЕ ПЛОСКОГУБЦЫ – 1000В • KOMBIZANGE 1000V



• Forged, made from high-grade tool steel
• Quenched • Ergonomic PVC covers

Code	Size (mm)	
28531	160	10
28532	180	10
28533	200	10

3 SIDE-CUTTING PLIERS 1000V

• БОКОРЕЗЫ 1000В ПОЛИРОВАННЫЕ
• SEITENSCHNEIDER 1000V



• Ergonomic two-component PVC covers

Code	Size (mm)	
28593	140	10
28594	160	10
28595	180	10

4 DIAGONAL SIDE CUTTERS – 1000 V

• ЭЛЕКТРОТЕХНИЧЕСКИЕ БОКОРЕЗЫ – 1000В
• DIAGONAL-SEITENSCHNEIDER - 1000 V



• Forged, made from high-grade tool steel
• Quenched • Polished • Ergonomic PVC covers

Code	Size (mm)	
28570	140	10
28571	160	10
28572	180	10

5 SNIPE NOSE PLIERS 1000V TWO COMPONENTS

• ТОНКОГУБЦЫ 1000В ПОЛИРОВАННЫЕ ДВУХКОМПОНЕНТНЫЕ
• SPITZZANGE - 1000 V ZWEI KOMPONENTEN



• Ergonomic two-component PVC covers

Code	Size (mm)	
28596	160	10
28597	200	10

6 SNIPE NOSE PLIERS – 1000 V

• ЭЛЕКТРОТЕХНИЧЕСКИЕ ПРЯМЫЕ ПОЛУКРУГЛЫЕ ПЛОСКОГУБЦЫ – 1000 В (ТОНКОГУБЦЫ) • SPITZZANGE - 1000 V



• Forged, made from high-grade tool steel
• Quenched • Polished • Ergonomic PVC covers

Code	Size (mm)	
28573	160	10
28574	200	10

7 FLAT NOSE PLIERS 1000V

• ПЛОСКОГУБЦЫ 1000В ПОЛИРОВАННЫЕ
• FLACHZANGE 1000 V



• Ergonomic two-component PVC covers

Code	Size (mm)	
28598	160	10

8 FLAT NOSE PLIERS - 1000 V

• ЭЛЕКТРОТЕХНИЧЕСКИЕ ПРЯМЫЕ ПЛОСКОГУБЦЫ – 1000 В (УТКОНОСЫ) • FLACHZANGE 1000 V



• Forged, made from high-grade tool steel
• Quenched • Polished • Ergonomic PVC covers

Code	Size (mm)	
28577	160	10

1 ROUND NOSE PLIERS 1000V

• КРУГЛОГУБЦЫ 1000В ПОЛИРОВАННЫЕ
• RUNDZANGE 1000 V



• Ergonomic two-component PVC covers

Code	Size (mm)	
28599	160	10

2 ROUND NOSE PLIERS-1000 V

• ЭЛЕКТРОТЕХНИЧЕСКИЕ КРУГЛОГУБЦЫ – 1000В
• RUNDZANGE 1000 V



• Forged, made from high-grade tool steel
• Quenched • Polished • Ergonomic PVC covers

Code	Size (mm)	
28575	160	10



3 END CUTTING PLIERS

• ЩИПЦЫ (КУСАЧКИ) ТОРЦЕВЫЕ • FRONTSCHNEIDER



• Forged, made from high-grade steel • Quenched
• PVC-coated handles

Code	Size (mm)	
28551	180	10

4 HEAVY DUTY SIDE CUTTER

• КУСАЧКИ ДЛЯ ПРОВОЛОКИ • DRAHTSCHNEIDER



• Forged, made from high-grade steel • Quenched
• PVC-coated handles

Code	Size (mm)	
28506	260	10

5 END CUTTING PLIERS

• ЩИПЦЫ (КУСАЧКИ) ТОРЦЕВЫЕ ДЛЯ ПРОВОЛОКИ
• GELENKFRONTSCHNEIDER



• Forged, made from high-grade steel
• Quenched • Lever mechanism facilitating cutting • Ergonomic handles coated with PVC

Code	Size (mm)	
28553	210	10

6 RABBIT PINCERS

• ЩИПЦЫ (КУСАЧКИ) ШТУКАТУРНЫЕ • MONIERZANGE



• Forged, made from high-grade steel • Quenched
• PVC-coated handles

Code	Size (mm)	
28502	220	10
28503	250	10

7 PINCERS

• КЛЕЩИ • KNEIFZANGE

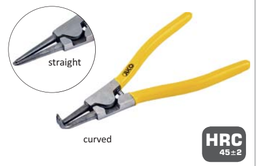


• Forged, made from high-grade steel
• Quenched • Polished head • PVC-coated handles

Code	Size (mm)	
28561	160	10
28562	180	10
28563	200	10

8 CIRCLIP PLIERS

• ЩИПЦЫ ДЛЯ СТОПОРНЫХ КОЛЕЦ
• SICHERUNGSRINGZANGE FÜR INNENRINGE



• Forged, made from high-grade steel
• Polished • PVC-coated handles

Code	Size (mm)	Typ	Type	
28543	180	ext.	curved	10
28544	200	ext.	curved	10
28541	180	int.	curved	10
28542	200	int.	curved	10
28547	180	ext.	straight	10
28548	210	ext.	straight	10
28545	180	int.	straight	10
28546	210	int.	straight	10

1 ADJUSTABLE SPANNERS

• РАЗВОДНЫЕ КЛЮЧИ • VERSTELLBARE SCHRAUBENSCHLÜSEL



• Made from C45 steel

Code	Size (mm)	
28205	200	10
28206	250	10
28207	300	10

2 WATERPUMP PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ • ROHRZANGE



• Made from C45 steel • PVC-coated handles

Code	Size (mm)	
28208	240	10

3 WATERPUMP PLIERS

• КЛЕЩИ САНТЕХНИЧЕСКИЕ • ROHRZANGE



HRC 45±2

• Forged from high-grade steel • Quenched
• PVC-coated handles

Code	Size (mm)	
28209	240	10



4 WATERPUMP PLIERS

• ПЕРЕСТАВНЫЕ КЛЮЧИ ДЛЯ ТРУБ
• WASSERPUMPENZANGE



HRC 45±2

• Forged, made from high-grade steel
• Quenched • Furrowed jaws increase gripping force

Code	Size (mm)	
28202	250	10
28203	315	10

5 AVATION SNIPS

• НОЖНИЦЫ ПО МЕТАЛЛУ ШАРНИРНЫЕ • GELENKSCHERE



HRC 44±2

• Made from high-grade steel
• Quenched • With joints • Ergonomic PCV covers on the handles

Code	Size (mm)	Type	
17104	230	straight	10

6 TINMAN'S SNIPS

• ЛИСТОВЫЕ НОЖНИЦЫ ПО ЖЕСТИ • BLECHSCHERE



HRC 44±2

• Made from high-grade steel • Blades quenched in zones • Hardness 44 ± 2 HRC
• Jointed • PVC-coated handles

Code	Size (mm)	Type	
17101	260	straight	10
17102	260	right	10
17103	260	left	10

7 HACKSAW FRAME

• НОЖОВКА ПО МЕТАЛЛУ • METALLBÜGELSÄGE



• Robust bow made from C45 steel
• Wooden handle
• Total length 520 mm

Code	Size (mm)	
23103	300	5



1 FLAT COLD CHISELS

• ЗУБИЛА • SCHLOSSERMEISSEL



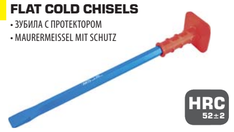
HRC 52±2

• Hot-forged • Quenched work part
• Coated • Tool steel C45 • Rectangular profile

Code	Length [mm]	Profile dimension [mm]	
13701	150	20 x 10	10
13702	200	20 x 10	10
13700	250	20 x 10	10
13703	300	25 x 10	10
13704	400	30 x 12	10

2 FLAT COLD CHISELS

• ЗУБИЛА С ПРОТЕКТОРОМ
• MAURERMEISSEL MIT SCHUTZ



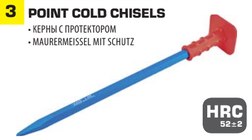
HRC 52±2

• Hot-forged • Quenched work part
• Coated • Tool steel C45 • PVC guard • Hex profile

Code	Length [mm]	Profile dimension [mm]	
13717	250	17	5
13713	300	17	5
13718	350	17	5
13714	400	19	5
13715	500	19	5

3 POINT COLD CHISELS

• КЕРНЫ С ПРОТЕКТОРОМ
• MAURERMEISSEL MIT SCHUTZ



HRC 52±2

• Hot-forged • Quenched work part
• Coated • Tool steel C45 • PVC guard • Hex profile

Code	Length [mm]	Profile dimension [mm]	
13723	300	17	5
13725	500	19	5

4 CROWBAR

• ГВОЗДОДЕР • NAGELEISEN

HRC 45±2

• Hot-forged • Quenched work part (remover)
• Coated • Tool steel C45 • Hex profile

Code	Length [mm]	Profile dimension [mm]	
13611	300	14	5

5 FLAT EXTRACTOR - CROWBARS FOR NAILS

• ЛОМЫ -ГВОЗДОДЕРЫ ПЛОСКИЕ
• FLACHABZIEHER - BRECHEISEN FÜR NÄGEL



HRC 45±2

• Hot-forged • Quenched work part (remover)
• Coated •Tool steel C45 • Rectangular profile

Code	Length [mm]	Profile dimension [mm]	
13612	450	35x5	5
13613	500	35x5	5

6 EXTRACTOR - CROWBARS FOR NAILS

• ЛОМЫ -ГВОЗДОДЕРЫ
• ABZIEHER - BRECHEISEN FÜR NÄGEL



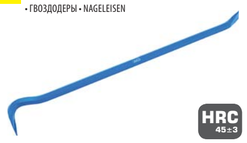
HRC 45±2

• Quenched work part (remover)
• Coated • Tool steel C45 • Hex profile

Code	Length [mm]	Profile dimension [mm]	
13615	350	17	5
13616	550	17	5

7 CROWBARS

• ГВОЗДОДЕРЫ • NAGELEISEN



HRC 45±3

• Hot-forged • Quenched work parts (blade and remover) • Coated • Tool steel C45 • Hex profile

Code	Length [mm]	Profile dimension [mm]	
13604	400	17	5
13605	500	17	5
13606	600	17	5
13607	700	17	5
13608	800	17	5
13609	900	19	5
13610	1000	19	5

8 POINT CROWBARS

• СТРОИТЕЛЬНЫЕ ЛОМЫ • SPITZE BRECHEISEN



HRC 45±2

• Quenched work part (at the ends)
• Coated • Tool steel C45 • Round profile

Code	Length [mm]	Profile dimension [mm]	
13620	1000	23	1
13602	1200	26	1
13603	1500	28	1
13601	1600	28	1

9 PLANE MASONRY CROWBARS

• СТРОИТЕЛЬНЫЕ ЛОМЫ • FLACHE MAURER-BREICHEISEN



HRC 45±2

• Quenched work part (at the ends)
• Coated • Tool steel C45 • Round profile

Code	Length [mm]	Profile dimension [mm]	
13621	1000	26	1
13622	1200	26	1
13625	1500	26	1
13626	1600	26	1

10 CENTRE PUNCH

• СЛЕСАРНЫЙ КЕРН
• SCHLOSSERKÖRNER



HRC 52±3

• Quenched blade • Coated • Hardness 52 ± 2 HRC • Tool steel C45 • Hex profile

Code	Length [mm]	Profile dimension [mm]	
13600	100	10	25

1 MACHINIST HAMMERS

• СЛЕСАРНЫЕ МОЛОТКИ
• SCHLOSSERHÄMMER



- Hot forged • Quenched at the ends
- Coated and ground • Hardness 43 ± 3 HRC
- Made from C45 steel • Wooden handle

Code	Weight (g)	Handle length (mm)	
12401	100	260	10
12402	200	280	10
12403	300	300	10
12405	500	320	10
12407	700	340	10
12410	1000	360	10
12415	1500	380	6
12420	2000	400	6
12430	3000	600	1
12440	4000	700	1
12450	5000	800	1
12460	6000	800	1
12480	8000	900	1
12400	10000	900	1

2 MACHINIST HAMMERS

• СЛЕСАРНЫЕ МОЛОТКИ
• SCHLOSSERHÄMMER



- Hot forged • Quenched at the ends
- Ground • Heads covered with a special agent making a transparent anticorrosion surface • Made from C45 steel • Wooden handle

Code	Weight (g)	Handle length (mm)	
12421	100	260	10
12422	200	280	10
12423	300	300	10
12425	500	320	10
12427	700	340	10
12429	1000	360	10
12435	1500	380	6
12439	2000	400	6
12443	3000	600	1
12444	4000	700	1
12445	5000	800	1
12446	6000	800	1
12448	8000	900	1
12449	10000	900	1

3 SPLITING HAMMERS

• КУВАЛДЫ
• VORSCHLAGHAMMER



- Hot forged • Quenched at the ends
- Coated and ground • Made from C45 steel
- Wooden handle

Code	Weight (g)	Handle length (mm)	
12470	1000	360	10
12471	1500	380	6
12472	2000	400	6
12473	3000	600	1
12474	5000	800	1
12476	6000	800	1
12478	8000	900	1
12479	10000	900	1

4 ROOFING HAMMER

• ПЛОТНИЦКИЙ МОЛОТОК • ZIMMERMANNSHAMMER



- Hot forged • Quenched working surfaces of the head • Made from C45 steel • Metal shank with PVC handle • Magnetic insert in the head for holding nails

Code	Weight (g)	Handle length (mm)	
12489	600	320	5

5 MONOBLOCK ROOFING HAMMER

• МОЛОТОК ПЛОТНИЧНЫЙ, МОНОБЛОК
• MONOBLOCK-DACHHAMMER



- The whole metal part forged • Quenched working surfaces of the head • Magnetic insert in the head for holding nails • Metal shank with PVC handle

Code	Weight (g)	Handle length (mm)	
12490	700	320	5

6 MASONRY HAMMER

• МОЛОТОК КАМЕНЩИКА • MAURERHAMMER



- Hot forged • Quenched working surfaces of the head • Made from C45 steel • Metal shank with PVC handle • Magnetic insert in the head for holding nails

Code	Weight (g)	Handle length (mm)	
12488	700	320	5

7 MONOBLOCK MASONRY HAMMER

• МОЛОТОК КАМЕНЩИКА • MONOBLOCK-MAURERHAMMER



- The whole metal part forged • Quenched working surfaces of the head • Magnetic insert in the head for holding nails • Metal shank with PVC handle

Code	Weight (g)	Handle length (mm)	
12487	700	320	5

8 MASONRY HAMMER

• МОЛОТОК КАМЕНЩИКА • MAURERHAMMER



- Hot forged • Quenched at ends • Coated and ground • Wooden handle

Code	Weight (g)	Handle length (mm)	
12207	700	350	5

9 STONE HAMMERS

• КУВАЛДЫ • STEINMETZHÄMMER



- Hot-forged • Quenched at ends
- Coated and ground • Made from C45 steel
- Two-sided head • Wooden handle

Code	Weight (g)	Handle length (mm)	
12481	1000	360	10
12482	2000	400	6
12483	3000	600	1
12485	5000	800	1
12486	6000	800	1



1 HAND AXES

• ТОПОРЫ • TRADITIONELLE ÄXTE



HRC 46±2 | DIN 5131 | DIN 7294

• Hot-forged • Quenched blades • Coated and ground • Wooden handle

Code	Weight (g)	Handle length (mm)	
12214	400	340	5
12306	600	360	5
12308	800	380	5
12310	1000	500	5
12312	1250	700	5
12315	1500	700	5
12318	1800	800	5
12320	2000	800	5
12326	2500	900	5

2 HAND AXES

• ТОПОРЫ • TRADITIONELLE ÄXTE



HRC 46±2 | DIN 5131 | DIN 7294

• Hot-forged • Quenched blades • Ground
• Heads covered with a special agent making a transparent anticorrosion surface
• Wooden handle

Code	Weight (g)	Handle length (mm)	
12304	400	340	5
12305	600	360	5
12307	800	380	5
12309	1000	500	5
12314	1250	700	5
12316	1500	700	5
12317	1800	800	5
12319	2000	800	5
12324	2500	900	5

3 HAND AXE CANADIAN

• ТОПОР КАНАДСКИЙ • KANADISCHE AXT



HRC 46±2

• Hot-forged • Quenched blades • Made from C45 steel • Wooden handle

Code	Weight (g)	Handle length (mm)	
12323	1800	800	5

4 KICHEN AXE

• ТОПОРИК КУХОННЫЙ • KÜCHENBEIL



HRC 46±2

• Polished head with a quenched blade
• Metal shank with PVC handle

Code	Weight (g)	Handle length (mm)	
12299	600	320	5

5 KICHEN AXE

• ТОПОРИК КУХОННЫЙ • KÜCHENBEIL



• The whole metal part forged • Polished head
• Metal shank with PVC handle

Code	Weight (g)	Handle length (mm)	
12297	600	360	5

6 HAND AXE

• ТОПОР С КЛИНОМ • KEILAXT



HRC 46±2

• Hot-forged • Quenched blades • Coated and ground • Wooden handle

Code	Weight (g)	Handle length (mm)	
12313	1200	600	5
12321	2000	800	5

7 HAMMER-AXES

• ТОПОРЫ-КОЛУНЫ • HAMMERAXT



HRC 46±2

• Hot forged • Quenched blades • Coated and ground • Self-locking wooden handle

Code	Weight (g)	Handle length (mm)	
12325	2500	900	1
12340	4000	900	1

8 SPLITTING WEDGES

• КЛИНЫ ДЛЯ ДЕРЕВА • HOLZKEILE



HRC 46±2

• Hot-forged • Quenched blades • Made from C45 steel • Special shape facilitating wood splitting

Code	Weight (g)	
12300	1500	1
12302	2000	1
12303	3000	1



1 GARDEN SPADE

• ШТЫКОВАЯ ЛОПАТА • SPATEN GERADE



HRC 32±2

• Blade hardness 32 ± 2 HRC • Riveted • Not assembled

Code	Dimensions (mm)	
12355	195 x 295	5

2 COAL SHOVEL

• СОВКОВАЯ ЛОПАТА • SPATEN GERADE



HRC 32±2

• Blade hardness 32 ± 2 HRC • Not assembled • For shank Ø 38 mm

Code	Dimensions (mm)	
12356	290 x 340	5

3 SPADE STRAIGHT

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА • SPATEN GERADE GENIETET



HRC 32±2

• Blade hardness 32 ± 2 HRC • Riveted • Wooden handle with T holder

Code	Dimensions (mm)	Handle length (mm)	
12351	195 x 290	900	5

4 SPADE STRAIGHT

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА • SPATEN GERADE



HRC 32±2

• Blade hardness 32 ± 2 HRC • Lightweight structure without riveting
• Wooden handle with T holder

Code	Dimensions (mm)	Handle length (mm)	
12358	180 x 270	900	5

5 SAND SHOVEL

• СОВКОВАЯ ЛОПАТА ДЛЯ ПЕСКА • SANDSCHAUFEL



HRC 32±2

• Blade hardness 32 ± 2 HRC • Straight wooden handle

Code	Dimensions (mm)	Handle length (mm)	
12352	250 x 270	1000	5

6 SAND SHOVEL

• СОВКОВАЯ ЛОПАТА ДЛЯ УГЛЯ • KOHLESCHAUFEL



HRC 32±2

• Blade hardness 32 ± 2 HRC • Wooden handle with T holder

Code	Dimensions (mm)	Handle length (mm)	
12350	250 x 270	900	5

7 COAL SHOVELS

• СОВКОВЫЕ ЛОПАТЫ ДЛЯ УГЛЯ • KOHLESCHAUFEL



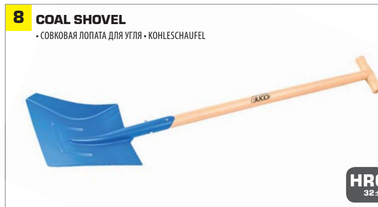
HRC 32±2

• Blade hardness 32 ± 2 HRC • Wooden handle with DY holder

Code	Dimensions (mm)	Handle length (mm)	
12353	290 x 340	900	5
12327	235 x 295	900	5

8 COAL SHOVEL

• СОВКОВАЯ ЛОПАТА ДЛЯ УГЛЯ • KOHLESCHAUFEL



HRC 32±2

• Blade hardness 32 ± 2 HRC • Wooden handle with T holder

Code	Dimensions (mm)	Handle length (mm)	
12298	235x295	900	5



OTHER BRANDS

abrasive discs
brushes
buckets
floats
glues
levels
lines
mains testers
paint brushes
shovels
spades
spatulas
tapes
trowels
and many others

1 T-SOCKET WRENCHES

• КЛЮЧИ ТОРЦЕВЫЕ Т-ОБРАЗНЫЕ • STECKSCHLÜSSEL



• Forged • Hex socket

Code	Size (mm)	Length (mm)	
29065	8	190	50
29066	10	190	50
29067	13	190	50
29068	17	190	50
29069	19	190	50
29060	8	380	50
29061	10	380	50
29062	13	380	50
29063	17	380	50
29064	19	380	50

2 REVERSIBLE BLADE SCREWDRIVER

• ДВУХСТОРОННЯЯ ОТВЕРТКА • SCHRAUBENDREHER ZWEISEITIG



• Removable reversible bit: slotted 6 mm and Phillips PH 2 • Plastic handle • Bit length 100 mm

Code	Type	
10000L	reversible	30

3 REVERSIBLE BLADE SCREWDRIVER

• ДВУХСТОРОННЯЯ ОТВЕРТКА • SCHRAUBENDREHER ZWEISEITIG



• Removable reversible bit: slotted 6 mm and Phillips PH2 • Plastic handle • Bit length 35 mm

Code	Type	
10000K	reversible	40

4 1000V ELECTRICIAN SCREWDRIVERS

• ЭЛЕКТРОТЕХНИЧЕСКИЕ ОТВЕРТКИ
• ELEKTROSCHRAUBENDREHER



HRC 58±2 | 1000V | Cr-V-Mo

• Bit hardness 58 ± 2 HRC
• Handle from non-slip material

Code	No. x L (mm)	
10536	PH0 x 100	30/120
10537	PH1 x 80	25/100
10538	PH2 x 100	20/80

5 6 PCS 1000V ELECTRICIAN SCREWDRIVER SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ОТВЕРТОК 1000В – 6 ШТ.
• ELEKTROSCHRAUBENDREHER 1000V - SET 6 STK.

HRC 58±2 | 1000V | Cr-V-Mo

• Bit made from high-quality MbCrV steel resistant to wear and torsion • Bit hardness 58 ± 2 HRC • Handle made from high quality materials (ABS and thermoplast)
• The set includes: slotted screwdrivers 3 x 100, 4 x 100, 5.5 x 125 mm; Pozidriv screwdrivers PZ1 x 80, PZ2 x 100 mm; voltage tester 200 - 250 V, 140 mm
• Delivered in plastic box

Code	Quantity (pcs.)		
10599	6	x	10

6 5 PCS 1000V ELECTRICIAN SCREWDRIVER SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ОТВЕРТОК 1000В – 5 ШТ.
• ELEKTROSCHRAUBENDREHER 1000V - SET 5 STK.



HRC 58±2 | 1000V | Cr-V-Mo

• Hardness 58 ± 2 HRC • The set includes: slotted screwdrivers 2.5 x 75, 3.5 x 100, 4.5 x 125 mm; Phillips screwdriver PH1 x 80 mm; voltage tester 200 - 250 V, 140 mm • Supplied in a case with a suspension

Code	Quantity (pcs.)		
10502	5	x	40

7 6 PCS 1000V ELECTRICIAN SCREWDRIVER SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ОТВЕРТОК 1000В – 6 ШТ.
• ELEKTROSCHRAUBENDREHER 1000V - SET 6 STK.



HRC 58±2 | 1000V | Cr-V-Mo

• Bit made from high-quality MbCrV steel resistant to wear and torsion • Bit hardness 58 ± 2 HRC • Handle made from high quality materials (ABS and thermoplast)
• The set includes: slotted screwdrivers 3 x 100, 4 x 100, 5.5 x 125 mm; Phillips screwdrivers PH1 x 80, PH2 x 100 mm; voltage tester 200 - 250 V, 140 mm
• Delivered in plastic box

Code	Quantity (pcs.)		
10598	6	x	10

8 6 PCS 1000V ELECTRICIAN SCREWDRIVER SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ОТВЕРТОК 1000В – 6 ШТ.
• ELEKTROSCHRAUBENDREHER 1000V - SET 6 STK.



HRC 58±2 | 1000V | Cr-V-Mo

• Hardness 58 ± 2 HRC • The set includes: slotted screwdrivers 2.5 x 75, 3.5 x 100, 4.5 x 125, 5.5 x 125 mm; Phillips screwdrivers PH1 x 80, PH2 x 100 mm • Supplied in a case with a suspension

Code	Quantity (pcs.)		
10503	6	x	30

1 6 PCS 1000V ELECTRICIAN SCREWDRIVER SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ОТВЕРТОК 1000В – 6 ШТ.
• ELEKTROSCHRAUBENDREHER 1000V - SET 6 STK.



- Hardness 58 ± 2 HRC
- The set includes:
  10078 - slotted screwdrivers 3 x 100, 4 x 100, 5.5 x 125 mm; Pozidriv screwdrivers PZ1 x 80, PZ2 x 100 mm; voltage tester 200 - 250 V, 140 mm;
  10079 - slotted screwdrivers 3 x 100, 4 x 100, 5.5 x 125 mm; Phillips screwdrivers PH1 x 80, PH2 x100 mm; voltage tester 200 - 250 V, 140 mm
- Delivered in a plastic box

Code	Quantity (pcs.)		
10078	6	x	10
10079	6	x	10

2 4 PCS 1000V ELECTRICIAN SCREWDRIVER SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ОТВЕРТОК 1000В – 4 ШТ.
• ELEKTROSCHRAUBENDREHER 1000V - HEIMSET 4 STK.



- Hardness 58 ± 2 HRC
- The set includes:
  slotted screwdrivers 3 x 100, 5.5 x 125 mm; Phillips screwdriver PH2 x 100 mm; voltage tester 200 - 250 V, 140 mm
- Supplied in a case with a suspension

Code	Quantity (pcs.)		
10541	4	x	40

3 5PCS 1000V ELECTRICIAN SCREWDRIVER SET

• НАБОР ЭЛЕКТРОТЕХНИЧЕСКИХ ОТВЕРТОК 1000В – 5 ШТ.
• ELEKTROSCHRAUBENDREHER 1000 V - AUTOSET 5 STK.



- Hardness 58 ± 2 HRC
- The set includes:
  slotted screwdrivers 3 x 100, 4 x 100; 5.5 x 125 mm; Phillips screwdriver PH2 x 100 mm; voltage tester 6 - 24 V, with a clip • Delivered in a case with a suspension

Code	Quantity (pcs.)		
10540	5	x	10

4 LCD MAINS TESTER

• ИНДИКАТОРНЫЙ ТЕСТЕР С ЖК ДИСПЛЕЕМ
• PRÜFSTIFT MIT LCD



- For AC and DC testing • Voltage presence checks • Voltage checks in zero and at grounding • Checking specific voltage values in the display ranges 12 - 36 - 55 - 110 - 220 V • Voltage detection through insulation
- Plastic bit and handle shield

Code	Range of measurements	Length (mm)		
10590	12 - 250 V	190	x	5/100

5 MAINS TESTERS

• ОТВЕРТКИ-ТЕСТЕРЫ • SPANNUNGSPRÜFER



- Durable plastic handle with a clip • Shielded bit from CrV steel • Conforms to PN-EN-ISO/IEC 17050-1:2005 • Delivered in bulk

Code	Range of measurements	Length (mm)	
10581	200 - 250 V	140	100/1200
10582	200 - 250 V	190	100/600

6 MAINS TESTER

• ТЕСТЕР НАПРЯЖЕНИЯ 220В И 380В • SPANNUNGSPRÜFER 220 V UND 380 V



- Universal tester for DC and AC voltage in ranges 200 - 260 V and 360 - 440 V

Code	Range of measurements		
10584	200 - 260 V and 360 - 440 V	x	36

7 FAZER BUZZER

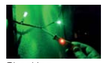
• ОТВЁРТКИ ТЕСТЕР • SPANNUNGSPRÜFER




Checking positive, negative and ground

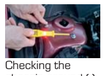

Checking the +12V line in a car


Checking circuit continuity


Checking Christmas lights


Voltage detection through insulation


Determining the order of wires in a bundle


Checking the chassis ground (-) line in a car


Checking fuses

- Length 175 mm
- Supplied in a foil pouch with a pendant

Code	Range of measurements		
10587	< 400 V	x	16 / 320

1 ADJUSTABLE WRENCHES

• КЛЮЧИ РАЗВОДНЫЕ • VERSTELLSCHLÜSSEL „FRANZOSE"



• Steel 45 • Heavy-duty • Furrowed jaws to ensure higher gripping force
• Knurled handle • Blackened head

Code	Size (mm)	
29635	35 x 200	10
29645	45 x 210	10
29655	55 x 270	5
29665	65 x 280	5

2 WOODEN TRY SQUARES

• ДЕРЕВЯННЫЕ СТОЛЯРНЫЕ УГОЛЬНИКИ • UNIVERSALWINKEL



Code	Length (mm)	
21053	300	20
21054	400	30
21055	500	30

3 WOODEN ADJUSTABLE BEVELS

• ДЕРЕВЯННЫЕ МАЛКИ • HOLZWINKEL



Code	Length (mm)	
21043	270	80
21044	400	60

4 UNIVERSAL RULER

• МЕТАЛЛИЧЕСКАЯ ЛИНЕЙКА • METALLMASS MIT SKALA



• Metal strip (cross section size 40 * 1.8) with a two-sided metric graduation (tolerance ± 1mm), painted graduation • Wooden profiled holder • Recommended for: building works, wallpaper and gypsumboard cutting

Code	Length (mm)	
21077	750	20

5 ALUMINIUM-METALIC PROTRACTORS

• УГЛОМЕРЫ РАЗВОДНЫЕ • PLASTIK-METALL-WINKEL MIT SKALA



AL

• Aluminium beam (cross section size 77 * 19) • One-sided protractor, fixed in the beam and graduated arm connection point, graduation 4 * 90° (tolerance ± 1°) with a dial • Metal arm (cross section size 30 * 1.8) with a four-sided metric graduation (tolerance ± 1mm), painted graduation

Code	Length (mm)	
21083	350	10
21085	500	10
21087	750	10

6 COMBINATION SQUARES

• УГОЛЬНИКИ МЕТАЛЛИЧЕСКИЕ • HOLZWINKELMASS



• Plastic beam (cross section size 40 * 15) • Red holder on the beam to hang the square • Metal arm (cross section size 30 * 1.8) with a two-sided painted metric graduation (tolerance ± 1mm) on both edges

Code	Length (mm)	
21063	350	30
21065	500	30
21067	750	20
21069	1000	10

1 POLYURETHANE FLOATS

- ШТУКАТУРНЫЕ ПЕНОПЛАСТОВЫЕ ТЕРКИ
- STYROPHOR-GLÄTTKELLEN



- For trowelling traditional plasters

Code	Size (mm)	
61602	265 x 127	10
00105	317 x 170	10
61605	492 x 136	10
61607	691 x 136	10
61600	995 x 136	5

2 POLYURETHANE FLOAT

- ШТУКАТУРНАЯ КОНУСНАЯ ПЕНОПЛАСТОВАЯ ТЁРКА
- STYROPHOR-GLÄTTKELLE MIT SPITZE



- For trowelling traditional plasters
- Improved styrofoam quality, ensuring higher durability
- Spike at the front

Code	Size (mm)	
00107	320 x 180	10

3 POLISTYRENE TROWELS WITH FELT

- ПОЛИСТИРОЛ ШПАТЕЛЬ С ВОЙЛОКОМ
- STYROPHOR-GLÄTTKELLE MIT FILZ, GESCHLOSSENER GRIFF



- For smoothing traditional plasters

Code	Size (mm)	Felt thickness (mm)	
61592	270 x 130	4	10
61593	270 x 130	8	10

4 POLYSTERENE FLOATS

- ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ГЛАДКИЕ ТЕРКИ
- PLASTIK-GLÄTTKELLEN GLATT



- For textured and mineral plaster
- Closed plastic handle

Code	Size (mm)	
61010	270 x 130	24
61017	400 x 130	10

5 POLYSTERENE FLOAT

- ШТУКАТУРНАЯ ПЛАСТМАССОВАЯ ГЛАДКАЯ ТЁРКА
- PLASTIK-GLÄTTKELLE GLATT



- For textured and mineral plaster
- Open plastic handle

Code	Size (mm)	
00301	270 x 130	30

6 SPREADING POLYSTERENE FLOATS

- ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ЗУБЧАТЫЕ ГЛАДКИЕ ТЁРКИ
- PLASTIK-GLÄTTKELLEN GEZAHNT



- Rectangular teeth for spreading lue
- Closed plastic handle

Code	Size (mm)	Tooth (mm)	
61014	270 x 130	4 x 4	10
61012	270 x 130	6 x 6	10
61013	270 x 130	8 x 8	10
61015	270 x 130	10 x 10	10
61016	270 x 130	12 x 12	10

7 SPREADING POLYSTERENE FLOATS

- ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ЗУБЧАТЫЕ ГЛАДКИЕ ТЁРКИ
- PLASTIK-GLÄTTKELLEN GEZAHNT



- Rectangular teeth for spreading glue
- Open plastic handle

Code	Size (mm)	Tooth (mm)	
00300	270 x 130	4 x 4	10
00302	270 x 130	6 x 6	30
00303	270 x 130	8 x 8	30
00304	270 x 130	10 x 10	30
00299	270 x 130	12 x 12	10

8 RUBBER FACE FLOATS

- ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ТЁРКИ С РЕЗИНОВОЙ ПОДКЛАДКОЙ
- PLASTIK-GLÄTTKELLEN MIT GUMMI



- For grouting during tilelaying works

Code	Size (mm)	Rubber thickness (mm)	
61311	270 x 130	4	10
61312	270 x 130	8	10

9 SPARE RUBBER PADS

- РЕЗИНОВЫЕ ПОДКЛАДКИ ДЛЯ ШТУКАТУРНЫХ ТЕРОК
- ERSATZGUMMIS



- Spare rubber pads for plastic floats

Code	Size (mm)	Thickness (mm)	
61210	270 x 130	4	30
61211	270 x 130	8	15

1 RUBBER FACE FLOATS

• ШТУКАТУРНАЯ ПЛАСТМАССОВАЯ ТЕРКА
• PLASTIK-GLÄTTKELLE MIT GUM MIBESCHICHTUNG



• For grouting • Rubber base • Rubber truncated at sides

Code	Size (mm)	
00325	240 x 85	30

2 FELT FACE FLOATS

• ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ТЁРКИ С ВОЙЛОЧНОЙ ПОДКЛАДКОЙ • PLASTIK-GLÄTTKELLEN MIT FILZ



• For smoothing traditional plasters

Code	Size (mm)	Felt thickness (mm)	
61001	270 x 130	4	10
61003	270 x 130	8	10

3 SPARE FELT PADS

• ВОЙЛОЧНЫЕ ПОДКЛАДКИ ДЛЯ ШТУКАТУРНЫХ ТЕРОК
• ERSATZFILZE



• Spare felt pads for plastic floats

Code	Size (mm)	Thickness (mm)	
61201	270 x 130	4	30
61203	270 x 130	8	20

4 SPONGE FACE FLOATS

• ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ТЕРКИ С ГУБКОЙ
• PLASTIK-GLÄTTKELLEN MIT SCHAUMSTOFF



• Thin hard sponge – for smoothing traditional plaster
• Thick soft sponge – for tile washing after grouting during tilelaying works

Code	Size (mm)	Sponge Type	Thickness (mm)	
61005	270 x 130	hard & thin	30	10
61007	270 x 130	soft & thick	30	10
• with 10 mm rubber sponge for gypsum works				
61313	260 x 120	rubber	10	10

5 SPARE SPONGE PADS

• ЗАПАСНЫЕ ГУБКИ ДЛЯ ШТУКАТУРНЫХ ПЛАСТМАССОВЫХ ТЕРОК
• ERSATZSCHAUMSTOFF



• Spare sponge pads for plastic floats

Code	Size (mm)	Sponge Type	Thickness (mm)	
61216	270 x 130	hard & thin	30	10
61215	270 x 130	soft & thick	30	15

6 PLASTIC FLOAT WITH INCISED SPONGE

• ПЛАСТМАССОВАЯ ТЁРКА С НАРЕЗАННОЙ ГУБКОЙ
• KUNSTSTOFF - GLÄTTKELLE MIT EINGESCHNITTENEM SCHAUMSTOFF



• Plastic PS • sponge thickness: 30mm
• Sponge incised lengthwise and crosswise the float • For tile washing after grouting

Code	Size (mm)	
KU0387	275 x 135	12

7 FLOAT WITH NEEDLED FABRIC

• TĘPKA C ВОЛОКНОМ • KUNSTSTOFF-GLÄTTKELLE MIT AUSWECHSELBAREM FASERSTOFF



• Plastic ps • Black (rough) and white (soft) non-woven fabric • fabric fixed with velcro
• For cleaning (black) and polishing (white) of ceramic tiles • The set includes: float, black and white non-woven fabric

Code	Size (mm)	
KU0360	250 x 120	6

8 2 PCS. BLACK AND WHITE FABRIC SET

• ЗАМЕННОЕ ВОЛОКНО - КОМПЛЕКТ 2 ШТ.
• FASERSTOFF WEISS UND SCHWARZ ALS ERSATZ ZUR GLÄTTKELLE - SET 2 STK.

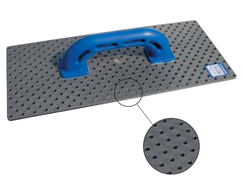


• Set of 2: clack (rough) and white (soft) non-woven fabric • For cleaning (black) and polishing (white) of ceramic tiles

Code	Size (mm)	
KU0361	250 x 120	5

9 PLASTIC HAND SANDER

• ШТУКАТУРНАЯ ПЛАСТИКОВАЯ ТЕРКА „РАШПИЛЬ"
• KUNSTSTOFF-GLÄTTKELLE MIT EINGESCHNITTENEM SCHAUMSTOFF



• Plastic rasp on a float

Code	Size (mm)	
00341	380 x 160	30

1 RASP FLOAT

• ШТУКАТУРНАЯ ПЛАСТИКОВАЯ ТЕРКА „РАШПИЛЬ"
• SCHLEIFKELLE MIT SCHLEIFBELAG



• Plastic rasp on a plastic float

Code	Size (mm)	
00321	400 x 180	10

4 ANGULAR TROWEL GRATE

• ШТУКАТУРНАЯ УГЛОВАЯ ПЛАСТИКОВАЯ ТЕРКА „РАШПИЛЬ"
• SCHLEIFKELLE



• Angular metal rasp 90°

Code	Size (mm)	
61316	270	15

7 STEEL PLASTERING FLOAT

• ШТУКАТУРНЫЕ НЕРЖАВЕЮЩИЕ ГЛАДИЛКИ
• STAHLKELLEN RECHTECKIG



STAINLESS

• Stainless steel • For gypsum works (gypsum plaster and finishing coats, textured plaster)
• Closed plastic handle

Code	Size (mm)	
61713	380 x 130	10
61716	480 x 130	10

2 RASP FLOATS

• ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ГЛАДКИЕ ТЕРКИ СО СМЕННЫМ РАШПИЛЕМ • SCHLEIFKELLE MIT AUSWECHSELBAREM SCHLEIFBELAG



• Replaceable metal rasp

Code	Size (mm)	
61315	270 x 130	15
00322	400 x 160	10

5 PLASTIC HAND SANDERS

• ШТУКАТУРНЫЕ ПЛАСТМАССОВЫЕ ГЛАДКИЕ ТЕРКИ С КРЕПЛЕНИЕМ • PLATIKKELLEN FÜR SCHLEIFPAPIER UND SCHLEIFNETZE



• With rubber base
• Metal handles fixed with wing nuts

Code	Size (mm)	
61008	230 x 80	40
61009	215 x 100	30

8 STEEL PLASTERING FLOATS

• ШТУКАТУРНЫЕ НЕРЖАВЕЮЩИЕ ГЛАДИЛКИ
• STAHLKELLEN RECHTECKIG



STAINLESS

• Stainless steel • Closed wooden handle

Code	Size (mm)	
61610	380 x 130	10
61620	480 x 130	10
61625	580 x 130	18
61626	680 x 130	18

3 REPLACEABLE INSET WITH RASP FLOAT

• СМЕННЫЙ РАШПИЛЬ • ERSATZSCHLEIFBELAG FÜR SCHLEIFKELLE



• Metal rasp - replaceable float pad 00322

Code	Size (mm)	
00323	400 x 160	10

6 PLASTIC HAND SANDER

• ПЛАСТИКОВЫЙ БРУСОК-ДЕРЖАТЕЛЬ ДЛЯ АБРАЗИВНОЙ БУМАГИ • PLATIKKELLE FÜR SCHLEIFPAPIER UND SCHLEIFNETZE

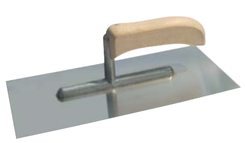


• With rubber base
• Spring snap-on handles

Code	Size (mm)	
00306	210 x 105	30

9 STEEL PLASTERING TROWEL

• НЕРЖАВЕЮЩАЯ ГЛАДИЛКА • STAHLKELLE RECHTECKIG



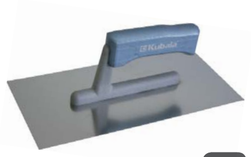
STAINLESS

• Stainless steel • Aluminium support
• Open wooden handle

Code	Size (mm)	
61650	270 x 130	24

1 SMOOTH STAINLESS TROWEL

• ШТУКАТУРНАЯ НЕРЖАВЕЮЩАЯ ГЛАДИЛКА
• VENEZIANISCHE EDELSTAHL-KELLE



STAINLESS

- Stainless, acid-proof steel • Thick ness: 0.65mm • Wooden handle on an aluminium support • For making floors, applying mortars, adhesives and gypsum finishing coats

Code	Size (mm)	
KU0414	270 x 130	10

2 SHARP GROUND STEEL TROWEL

• СТАЛЬНАЯ „ОСТРАЯ" ГЛАДИЛКА • STAHLKELLE SCHARF GLATT



CARBON

- Steel - thickness: 1.2mm
- Wooden handle on an aluminium support
- For floor making

Code	Size (mm)	
KU0421	500 x 90	20

3 SMOOTH STAINLESS TROWEL

• НЕРЖАВЕЮЩАЯ ГЛАДИЛКА • VENEZIANISCHE EDELSTAHL-KELLE



STAINLESS

- Stainless, acid-proof steel
- Thickness: 0.7mm • Two-component plastic handle on an aluminium support • Rounded corners • Ground and polished, for gypsum stucco

Code	Size (mm)	
KU0458	200 x 80	10

4 SMOOTH STAINLESS CONIC TROWEL

• НЕРЖАВЕЮЩАЯ ГЛАДИЛКА
• EDELSTAHL-KELLE „KEGELFÖRMIG"



STAINLESS

- Stainless, acid-proof steel • Thickness: 0.3mm • Two-component plastic handle on an aluminium support • For applying decorative indoor plasters

Code	Size (mm)	
KU0499	230 x70	10

5 STAINLESS PLASTERING TROWEL

• ШТУКАТУРНАЯ НЕРЖАВЕЮЩАЯ ГЛАДИЛКА
• STAHLKELLE RECHTECKIG



STAINLESS

- Stainless steel • For gypsum works (gypsum plaster and finishing coats, textured plaster)
- Open plastic handle

Code	Size (mm)	
61700	270 x 130	30

6 STEEL SPREADING TROWELS

• ШТУКАТУРНЫЕ НЕРЖАВЕЮЩИЕ ЗУБЧАТЫЕ ГЛАДИЛКИ
• STAHLKELLEN GEZAHNT



STAINLESS

- Stainless steel • Closed wooden handle
- Rectangular teeth • For adhesive application during tilelaying works (tooth 6 x 6 and 8 x 8), for laying wood floors, for spreading mortar (tooth 10 x 10)

Code	Size (mm)	Tooth (mm)	
61612	380 x 130	8 x 8	10
61613	380 x 130	10 x 10	10
61621	480 x 130	6 x 6	10
61622	480 x 130	8 x 8	10
61623	480 x 130	10 x 10	10

7 STEEL SPREADING TROWELS

• ШТУКАТУРНЫЕ НЕРЖАВЕЮЩИЕ ЗУБЧАТЫЕ ГЛАДИЛКИ
• STAHLKELLEN GEZAHNT



STAINLESS

- Stainless steel • Aluminium support • Open wooden handle • Rectangular teeth • For adhesive application during tilelaying works (tooth 6 x 6 and 8 x 8), for laying wood floors (tooth 4 x 4), for spreading mortar (tooth 10 x 10 and 12 x 12)

Code	Size (mm)	Tooth (mm)	
61651	270 x 130	4 x 4	24
61652	270 x 130	6 x 6	24
61653	270 x 130	8 x 8	24
61654	270 x 130	10 x 10	24
61655	270 x 130	12 x 12	24

8 STEEL SPREADING TROWEL

• НЕРЖАВЕЮЩАЯ ГЛАДИЛКА, ЗУБЧАТАЯ
• STAHLKELLEN GEZAHNT



STAINLESS

- Stainless, acid-proof steel • Thickness: 0.65mm • Two-component plastic handle on an aluminium support • For spreading adhesive mortars • Slanted tooth 8mm wide

Code	Size (mm)	
KU0487	270 x 130	10

9 STEEL SPREADING TROWELS

• ШТУКАТУРНЫЕ НЕРЖАВЕЮЩИЕ ГЛАДИЛКИ
• STAHLKELLEN GEZAHNT



STAINLESS

- Stainless steel • Open plastic handle
- Rectangular teeth • For adhesive application during tilelaying works (tooth 6 x 6 and 8 x 8), for laying wood floors (tooth 4 x 4), for spreading mortar (tooth 10 x 10 and 12 x 12)

Code	Size (mm)	Tooth (mm)	
61704	270 x 130	4 x 4	30
61706	270 x 130	6 x 6	30
61708	270 x 130	8 x 8	30
61710	270 x 130	10 x 10	30
61712	270 x 130	12 x 12	30

1 PLASTERING TROWELS
• КЕЛЬМЫ КАМЕНЩИКА ТРАПЕЦЕИДАЛЬНЫЕ
• TRAPEZKELLEN



• Stainless steel
• Non-slip two-component handle

Code	Size (mm)	
• **Wide**		
61673	140 x 110 x 90	30
61674	160 x 110 x 90	30
61675	180 x 120 x 90	30
• **Narrow**		
61676	140 x 80 x 35	30
61677	160 x 90 x 40	30
61678	180 x 85 x 65	30

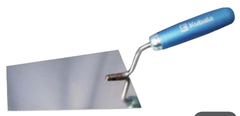
2 BRICK TROWELS
• КЕЛЬМЫ КАМЕНЩИКА ТРАПЕЦЕИДАЛЬНЫЕ
• TRAPEZKELLEN



• Wooden handle

Code	Size (mm)	
• **Stainless steel**		
61773	130 x 105 x 80	50
61776	160 x 130 x 80	50
61778	180 x 155 x 80	30
• **Carbon steel**		
61733	130 x 90 x 75	50
61736	160 x 115 x 75	50
61738	180 x 140 x 75	50
61739	200 x 165 x 75	50

3 STAINLESS TRAPEZOIDAL TROWELS
• КЕЛЬМЫ КАМЕНЩИКА ТРАПЕЦЕИДАЛЬНЫЕ
• TRAPEZKELLEN



• Stainless, acid-proof steel
• Thickness: 1.0mm • Wooden handle
• For bricklaying and plastering works

Code	Size (mm)	
KU0808	115 x 160 x 90	20
KU0810	120 x 180 x 90	20
KU0901	80 x 145 x 55	20

4 POINTED BRICK TROWELS
• КЕЛЬМЫ КАМЕНЩИКА ТРЕУГОЛЬНЫЕ
• MAURERKELLEN DREIECKIG



• Stainless steel
• Non-slip two-component handle

Code	Size (mm)	
61670	190	30
61672	210	30

5 POINTING BRICK TROWELS
• КЕЛЬМЫ КАМЕНЩИКА ТРЕУГОЛЬНЫЕ
• MAURERKELLEN DREIECKIG



• Equilateral • Wooden handles

Code	Size (mm)	
• **Stainless steel**		
61771	180	25
61770	200	30
• **Carbon steel**		
61728	180	50
61720	200	50
61722	220	50

6 STEEL TRIANGULAR TROWEL
• КЕЛЬМА КАМЕНЩИКА ТРЕУГОЛЬНАЯ
• MAURERKELLEN DREIECKIG



• Ground steel • 1.2 mm thick • Equilateral
• Wooden handles

Code	Size (mm)	
KU0804	200 x 190	10

7 TRIANGULAR TROWEL
• КЕЛЬМА КАМЕНЩИКА ТРЕУГОЛЬНАЯ
• MAURERKELLEN DREIECKIG



• Stainless, acid-proof steel • Thickness: 1.0mm • Wooden handle • For bricklaying and plastering works • Equilateral

Code	Size (mm)	
KU0807	200 x 190	10

8 TILE TROWELS
• КЕЛЬМЫ ШТУКАТУРНЫЕ
• STUCKATEURKELLE



• Stainless steel • Non-slip two-component handle

Code	Size (mm)	
61680	40 x 110	30
61681	60 x 110	30
61682	80 x 110	30
61683	100 x 100	30

9 STUCCO TROWELS
• КЕЛЬМЫ ШТУКАТУРНЫЕ
• STUCKATEURKELLE



• Stainless steel • Wooden handle

Code	Size (mm)	
61765	50 x 100	50
61766	60 x 100	50
61768	80 x 100	50

1 STAINLESS STUCCO TROWELS

• КЕЛЬМЫ ШТУКАТУРНЫЕ • STUCKATEURKELLE



• Stainless, acid-proof steel • Thickness: 0.8mm • Wooden handle • For stucco works (gypsum)

Code	Size (mm)	
KU0902	60	20
KU0903	80	20
KU0904	100	20

2 CORNER TROWELS

• КЕЛЬМЫ ШТУКАТУРНЫЕ ДЛЯ ВНУТРЕННИХ УГЛОВ
• WINKELKELLEN FÜR INNENKANTEN



• Stainless steel • Wooden handle

Code	Size (mm)	
61760	80 x 60	50
61761	120 x 60	50

3 CORNER TROWELS

• КЕЛЬМЫ ШТУКАТУРНЫЕ ДЛЯ ВНЕШНИХ УГЛОВ
• WINKELKELLEN FÜR AUSSENKANTEN



• Stainless steel • Wooden handle

Code	Size (mm)	
61762	80 x 60	50
61763	120 x 60	50

4 BRICK JOINTER TROWELS

• РАСШИВКИ ШТУКАТУРНЫЕ • FUGENKELLEN



• Carbon steel • Wooden handle

Code	Size (mm)	
61748	8	50
61740	10	50
61742	12	50

5 BRICK TROWELS „YTONG" TYPE

• ШТУКАТУРНЫЕ КОВШИ • KELLE „YTONG"

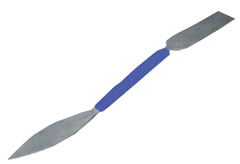


• Carbon steel • Wooden handle

Code	Size (mm)	
61711	100	10
61714	200	10
61715	240	10
61717	300	10

6 UNIVERSAL STRIPPING KNIFES

• УНИВЕРСАЛЬНЫЕ СТАЛЬНЫЕ ШПАТЕЛИ
• UNIVERSALSPACHTEL



• Carbon steel • Thickness: 1.2mm • Plastic handle • For grouting and painting works

Kód	Width (mm)	
KU0598	16	50
KU0599	24	50

7 WALL SCRAPERS

• ШПАТЕЛЯ • SPACHTELN



• Stainless steel • Plastic handle

Code	Size (mm)	
61754	40	25
61756	60	25
61758	80	25
61750	100	25

8 PLASTERING SPATULAS

• ШПАТЕЛЯ • SPACHTELN FÜR FEINPUTZ



• Stainless steel
• For applying gypsum finishing coat
• Plastic handle

Code	Size (mm)	
61100	150	150
61101	200	100
61102	250	100
61103	300	50
611035	350	50
61110	440	50
61104	450	50
61105	600	20

9 WALL SCRAPERS

• ШПАТЕЛЯ • SPACHTELN GLATT•

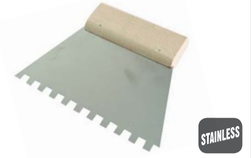


• Stainless steel • Wooden handle

Code	Size (mm)	
61781	180	50
61782	250	50

1 SPREADING SPATULAS

• ЗУБЧАТЫЕ ШПАТЕЛЯ • SPACHTELN GEZAHNT



• Stainless steel • Wooden handle

Code	Size (mm)	Tooth (mm)	
61787	180	4 x 4	50
61783	180	6 x 6	50
61784	180	8 x 8	50
61788	180	10 x 10	50
61789	250	4 x 4	50
61785	250	6 x 6	50
61786	250	8 x 8	50
61790	250	10 x 10	50

2 SPREADING SPATULAS

• ЗУБЧАТЫЕ ШПАТЕЛЯ • SPACHTELN GEZAHNT FÜR FEINPUTZ

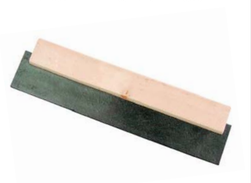


• Stainless steel • For adhesive application during tilelaying works • Plastic handle

Code	Size (mm)	Tooth (mm)	
61106	150	6 x 6	10
61107	150	8 x 8	10
61108	250	6 x 6	10
61109	250	8 x 8	10

3 JOINTERING RUBBER SPATULAS

• РЕЗИНОВЫЕ ШПАТЕЛЯ • FUGENSPACHTELN AUS GUMMI



• Wooden frame
• For grouting wall and floor tiles

Code	Size (mm)	
61501	150	160
61503	200	100
61502	250	100
61504	300	80

4 RUBBER STRIPPING KNIFE

• РЕЗИНОВЫЙ ШПАТЕЛЬ • GUMMISPACHTELN ZUM VERFUGEN UND ABZIEHEN VON WASSER



• Rubber • Thickness: 7mm (double) • Plastic handle with an opening to put a stick for grouting and water removal from large areas

Code	Length (mm)	
KU0607	440	20

5 4PCS PLASTIC JAPANESE SCRAPERS

• НАБОР ЯПОНСКИХ ШПАТЕЛЕЙ – 4 ШТ.
• JAPANISCHE SPACHTELN SET 4 TLG.

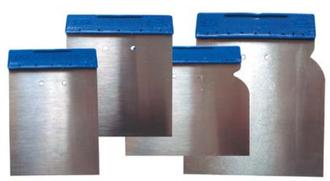


• Plastic • 4 putty knives with width: 5, 7.5, 10, 12 cm

Code	Quantity (pcs.) in the set	
01624	4	150

6 STEEL JAPANESE SCRAPERS

• ЯПОНСКИЕ ШПАТЕЛИ • JAPANISCHE SPACHTELN SET 4 TLG.



• Steel • Plastic handles • 4 palette knives with width: 5, 8, 10, 12 cm

Code	Quantity (pcs.) in the set	
01625	4	100

7 UNIVERSAL RUBBER STRIPPING KNIFES

• ПЛАСТМАССОВЫЕ УНИВЕРСАЛЬНЫЕ ШПАТЕЛИ • PLASTI-KWERKZEUG



• Plastic PS • For spreading adhesive mortar
• Multipurpose thanks to different shapes and sizes of teeth

Code	Size (mm)	Type	
KU0706	175 x 130	toothed	50
KU0708	135 x 90	toothed mini	50

8 UNIVERSAL STRIPPING KNIFES

• МАСТЕРКИ ПЛАСТИКОВЫЕ • FÜR FUGEN FORM „K"

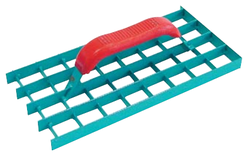


• Plastic PE • For joint smoothing (black), for silicone (white)

Code	Type	
KU1614	for joints	100
KU1628	for silicone	100

1 PLASTER STRIPPING TOOL

• ТЕРКА ДЛЯ СНЯТИЯ ШТУКАТУРКИ • AUSGLEICHBRETT FÜR PUTZNIVELLIERUNG



• Steel • Steel handle coated with plastic

Code	Size (mm)	
01401	290 x 150	15

2 WOODEN TROWEL SCRAPER FOR PLASTERS

• ТЕРКА ДЛЯ СНЯТИЯ ШТУКАТУРКИ • ТЕРКА ДЛЯ СНЯТИЯ ШТУКАТУРКИ



• Wooden • Closed handle • Steel blades

Code	Size (mm)	
01424	400	10

3 ALUMINIUM TROWEL SCRAPER FOR PLASTERS

• АЛЮМИНИЕВАЯ ТЕРКА ДЛЯ СНЯТИЯ ШТУКАТУРКИ • AUSGLEICHBRETT FÜR PUTZNIVELLIERUNG



• Aluminium • Closed handle • Steel blades

Code	Size (mm)	
01425	450	10

4 MASON'S PAN

• ЧЕРПАК КАМЕНЩИКА • MÖRTELSCHÖPFER



• Stalowy • Wooden handle • For bricklaying and plastering works

Code	Diameter (mm)	
61805	173	50

5 METAL SCOOP

• МЕТАЛЛИЧЕСКИЙ ЧЕРПАК • METALLSCHÖPFER VERZINKT



• Metal, galvanised • For bricklaying and plastering works

Code	Diameter (mm)	
KU1510	170	80

6 PLASTIC CONTAINER

• ПЛАСТМАССОВАЯ ЁМКОСТЬ • GIPSBECHER



• Plastic • For gypsum mixing

Code	Volume (l)	
KU1516	0,5	20

7 PLASTIC CONTAINER

• ПЛАСТМАССОВАЯ ЁМКОСТЬ • GIPSBECHER



• Plastic PP support with a handle • Soft rubber container for gypsum mixing • The set includes: support and container

Code	Volume (l)	
KU1518	0.5	20

8 VENTING ROLLERS FOR READY-MIXED PLASTERS

• ВАЛИКИ ДЛЯ САМОВЫРАВНИВАЮЩИХСЯ ПОВЕРХНОСТЕЙ • GERÄT ZUM ENTLÜFTEN VON ESTRICH



• Roller and spikes made from plastic • Plastic handle with an opening form the telescopic stick

Code	Size (mm)	Height of spikes (mm)	
01618	230 x 75	14	15
01621	230 x 110	28	10

9 TILE SPONGE

• ГУБКА ДЛЯ ГЛАЗУРИ • FLIESEN-SCHWAMM



• Dense sponge • For cleaning tiles after grouting

Code	Size (mm)	
KU1680	160 x 110 x 60	

10 HARD POROUS SPONGE

• ГУБКА ПОРИСТАЯ ТВЕРДАЯ • HARTER PORÖSER SCHWAMM



• Porous sponge with connected pores
• Connected pores ensure increased sponge absorbency and better water drainage • For cleaning tiles after grouting

Code	Size (mm)	
KU1689	160 x 110 x 60	

1 CONSTRUCTION SUPPORT AUTOMATIC

• СТРОИТЕЛЬНЫЕ РАСПОРЫ • TÜRSPANNER



- Adjustable length • Automated mechanism
- For installing frames and other components not requiring high loads • It is recommended to use in a vertical position • Sold in sets: one tube and two feet

Code	Size (mm)	
KU1829	from 670 to 970	6

2 NAIL WITH PRESSER

• ГВОЗДЬ С ПРИХВАТОМ • PUTZHAKEN AUS STAHL



CARBON

- Steel • For bricklaying and plastering works

Code	Length (mm)	
KU1643	150	50

3 ANGULAR CUTTING SUPPORT

• УГЛОВОЙ ПРИБОР ДЛЯ РЕЗКИ • WINKELSÄGEVORRICHTUNG FÜR LEICHTBETONSTEINE



CARBON

- Auxiliary cutter for cellular concrete blocks

Code	Size (mm)	
KU1709	270 x 270 x 270	10

4 GROOVING DEVICE

• ПРИБОР ДЛЯ РИФЛЕНИЯ • VORRICHTUNG FÜR DAS BERIEFEN VON LEICHTBETONSTEINE



CARBON

- Metal • For making grooves for the electrical system in cellular concrete blocks

Code	Groove width (mm)	
KU1710	18	10

5 NYLON BRICKLAYER LINE

• НЕЙЛОНОВАЯ ЛЕСКА КАМЕНЩИКА • MAURERSCHNUR



- Nylon • Random colour

Code	Length (mm)	Diameter (mm)	
61801	100	1.0	120

6 3 PCS UNIVERSAL LINES SET

• ШНУР УНИВЕРСАЛЬНЫЙ, НАБОР - 3ШТ. • UNIVERSALSCHNUR SET 3STK.



- Braided • Polypropylene string • Set of 3 in different colours • The permissible length is up to ± 5% of the rated length

Code	Length (m)	Diameter (mm)	
60995	50	2.0	40
60996	100	2.0	24

7 POLYPROPYLENE BRICKLAYER LINES

• ШНУРЫ КАМЕНЩИКА ПОЛИПРОПИЛЕНОВЫЕ • MAURER-SCHNÜRE



- Braided • Polypropylene rope • Orange
- High abrasion resistance • Don't absorb water or other liquids • Permissible length difference ± 5% of the rated length

Code	Length (mm)	Diameter (mm)	
61802	50	1.7	60
61803	100	1.7	30

8 POLYPROPYLENE BRICKLAYER LINES

• ШНУРЫ КАМЕНЩИКА ПОЛИПРОПИЛЕНОВЫЕ • MAURERSCHNÜR



- Braided • Polypropylene rope • Yellow
- High abrasion resistance • Don't absorb water or other liquids • Permissible length difference ± 5% of the rated length

Code	Diameter (mm)	Length (m)	
61792	1.7	50	60
61793	1.7	100	30

9 JUTE LINES

• ПЕНЬКОВЫЕ КАНАТЫ • JUTESEILE



- Natura fibre, jute, rope, twisted

Code	Diameter (mm)	Length (m)	
60811	10	10	21
60812	10	20	10
60821	12	10	13
60822	12	20	8
60831	14	10	10
60832	14	20	6
60842	16	20	4
60843	16	30	3
60862	20	20	3

1 POLYPROPYLENE BRAIDED LINES

• КАНАТЫ ПЛЕТЕНЫЕ ПОЛИПРОПИЛЕНОВЫЕ
• POLYPROPYLEN-FLECHTSEIL



• Rope with a twisted core in polypropylene yarn braid • Sold by linear metres of the total rope length on the reel • Random colour

Code	Diameter (mm)	Length (m)	
60903	3	600	57600
60904	4	400	38400
60905	5	300	28800
60906	6	300	1800
60908	8	300	9600
60910	10	200	6400
60912	12	150	3600
60914	14	100	3200
60916	16	80	2560
60918	18	60	1920
60920	20	50	1200

2 RUBBER LINES

• РЕЗИНОВЫЕ ШНУРЫ • GUMMISEILE



• Rope with a rubber core in polypropylene yarn braid • Sold by linear metres of the total rope length on the reel

Code	Diameter (mm)	Length (m)	
60950	4	200	38400
60956	6	150	14400
60958	8	100	9600
60960	10	100	6000

3 PLASTIC STRINGS

• ШНУРЫ ПОЛИПРОПИЛЕНОВЫЕ • KUNSTSTOFFSCHNÜRE



• Polypropylene twisted string • The string diameter can be different at its length • The permissible packing length is up to ± 10% of the rated length

Code	Length (m)	
60972	200	45
60973	300	40
60975	500	20
60976	1000	12
60978	2000	1

4 JUTE STRINGS

• ШНУРЫ ПЕНЬКОВЫЕ УПАКОВОЧНЫЕ • PACKSCHNÜRE AUS JUTE



• Natura fibre, jute string, twisted
• Diameter Ø 2.5 mm ± 0.2 mm

Code	Weight (g)	
60983	100 ± 10%	126
60984	250 ± 10%	50

5 TWINES

• ШПАГАТЫ • PECHDRAHT VERSTÄRKT



• Diameter Ø 0.5 mm ± 0.1 mm • Made from a mix of linen and hemp fibres

Code	Weight (g)	
60991	100 ± 10%	112
60992	250 ± 10%	60

6 BUILDERS WATERING BRUSH

• ЩЕТКА КАМЕНЩИКА • MAURERBÜRST



• Synthetic bristle plus coconut fibre
• Wooden handle • No ferrule

Code	Size (mm)	
43038	180 x 60	20

7 BRUSH SWEEPER

• ЩЁТКА-МЕТЛА ДЛЯ УЛИЦЫ • STSTRASSENBESEN



• Possibility to buy a handle 12933
• PET bristle 60mm long • Waxed beechwood frame with the so-called chimney

Code	Width (mm)	
32074	400	20

8 STREET BRUSH

• ЩЁТКА-МЕТЛА ДЛЯ УЛИЦЫ
• STSTRASSENBESEN



• Beechwood handle • Handle length 130 cm
• Handle diameter 28 mm • PVC bristle
• Beechwood frame

Code	Width (mm)	
32044	400	5

1 STREET BRUSHES WITHOUT HANDLE

• УЛИЧНЫЕ ЩЕТКИ • PVC-STRASSENBESEN OHNE STIEL



• Without handle • Plastic bristle in a wooden body • There is a metal holder for installing the stick diameter 22mm on the wooden body

Code	Size (mm)	
32053	300	10
32054	400	10
32055	500	10
32056	600	10

2 STREET BRUSH

• ЩЁТКА-МЕТЛА ХОЗЯЙСТВЕННАЯ • HAHAUSHALTSBÜRSTE



• Pinewood stick with thread • Green PVC bristle • Plastic frame

Code	Handle length (mm)	
32060	1200	12

3 STREET BRUSH

• ЩЁТКА-МЕТЛА ХОЗЯЙСТВЕННАЯ • HAHAUSHALTSBÜRSTE



• Pinewood handle with a thread • Orange PVC bristle • Plastic frame • Delivered in a box 12 pcs. for self-assembly of the handle and the head

Code	Handle length (mm)	
32061	1200	12

4 BUILDERS SIEVES

• СТРОИТЕЛЬНЫЕ РЕШЕТА • BAUSIEB



• Metal • For loose material separation

Code	Size (cm)	Mesh (mm)	
15901	120 x 60	20 x 20	1
15902	120 x 60	10 x 10	1
15903	120 x 60	8 x 8	1
15904	120 x 60	6 x 6	1
15905	120 x 60	4 x 4	1
15920	100 x 50	4 x 4	1

5 GALVANISED BUCKET

• ВЕДРО СТРОИТЕЛЬНОЕ • BAUEIMER



• Metal, galvanised • For general building purposes

Code	Volume (L)	
43214	14	1

6 GALVANIZED BUCKETS

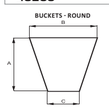
• ВЕДРА ОЦИНКОВАННЫЕ • UNIVERSELLE VERZINKTE EIMER FÜR DEN BAU



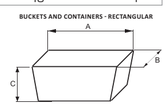
• Made from high-quality galvanised steel • Sealed bottom with a wire handle • For general building purposes • Manufactured in Europe

Code	Volume (l)	
43201	5	1
43202	10	1
43203	15	1

BUCKETS - ROUND



BUCKETS AND CONTAINERS - RECTANGULAR



7 BUILDERS BUCKETS

• ВЕДРА СТРОИТЕЛЬНЫЕ • BAUEIMER



• Plastic • Wire handle

Code	Volume (l)	A x B x C (mm)	
BP29437A	12	235 x 320 x 250	1155
BP29436A	16	235 x 335 x 280	510
BP29434A	20	260 x 380 x 305	720

8 BUILDERS BUCKETS

• КОНТЕЙНЕРЫ СТРОИТЕЛЬНЫЕ • MÖRTELBOTTICHE



• Plastic • With handling handles

Code	Volume (l)	A x B x C (mm)	
BP293999	40	311 x 507 x 380	130
BP294049	65	352 x 575 x 435	96
BP294050	90	400 x 645 x 496	76

9 OPENWORK BASKET

• КОРЗИНА АЖУРНАЯ • DURCHBROCHENER KORB ECO



• Plastic • Handles with colourful inserts

Code	Volume (l)	A x B x C (mm)	
35576	25	290 x 420 x 285	480

10 OPENWORK GARDENING BASKET

• КОРЗИНА АЖУРНАЯ САДОВАЯ • DURCHBROCHENER GARTEN-KORB BUNT



• Plastic • Handles with colourful inserts

Code	Volume (l)	A x B x C (mm)	
35578	35	330 x 475 x 320	280

1 BUILDERS CONTAINERS
• КОНТЕЙНЕРЫ СТРОИТЕЛЬНЫЕ • MÖRTELBOTTICHE



• Plastic • With handling handles

Code	Volume (l)	A x B x C (mm)	
35591	40	290 x 450 x 420	180
35592	60	335 x 600 x 560	180
35593	90	365 x 665 x 620	160

2 BUILDERS CONTAINERS
• КОНТЕЙНЕРЫ СТРОИТЕЛЬНЫЕ • MÖRTELBOTTICH



• Plastic • With handling handles

Code	Volume (l)	A x B x C (mm)	
BP299251	45	580 x 380 x 295	180
BP294501	65	660 x 420 x 283	130
BP294500	90	790 x 480 x 300	84

3 BUILDERS CONTAINERS
• КОНТЕЙНЕРЫ СТРОИТЕЛЬНЫЕ • MÖRTELBOTTICH



• Plastic • With handling handles

Code	Volume (l)	A x B x C (mm)	
35594	40	710 x 400 x 190	285
35596	60	710 x 400 x 290	270
35599	90	770 x 530 x 310	180

4 BUCKET FOR TILE'S WORKS
• ВЕДРО ДЛЯ ПЛИТОЧНЫХ РАБОТ • EIMER FÜR FLIESENLEGE-RARBEITEN



• Rectangular plastic bucket 16 L • Plastic handle • The set includes a mesh for removing excess mortar and two wheels

Code	Volume (l)	A x B x C (mm)	
01520	16	430 x 260 x 190	1

5 TILING SET
• НАБОР ДЛЯ ПЛИТОЧНЫХ РАБОТ • FLIESENLEGERSET



• The set includes: rectangular bucket 20 L, mesh, bucket rolls, wheels 2pcs, rubber-face float, sponge-face float

Code	Quantity (pcs.) in the set	
KU9901	6	1

6 BUCKET FOR TILE'S WORKS
• ВЕДРО ДЛЯ ПЛИТОЧНЫХ РАБОТ • EIMER FÜR FLIESENLEGE-RARBEITEN



• Rectangular bucket vol. 20 L • It is possible to install the wheels to move the bucket without carrying it • Plastic handle
• Delivered without rolls and wheels

Code	A x B x C (mm)	
01512	515 x 265 x 250	1

WHEELS FOR BUKETS
• КОЛЁСИКИ ДЛЯ ВЁДЕР • EIMERRÄDER



• To be installed on the bucket
• Sold in a set

Code	Number of pieces in the set	
KU1527	2	20

ROOLS FOR BUKETS
• РОЛИКИ ДВОЙНЫЕ ДЛЯ ВЁДЕР • EIMERROLLEN



• Double plastic rolls for removing excess water from the float with a sponge
• To be installed on the bucket

Code	Size (mm)	
01513	125 x 69	20

BARS FOR BUKETS
• РЕШЁТКА ДЛЯ ВЁДЕР • EIMERGITTER



• Mesh for removing excess mortar
• To be installed in the bucket

Code	Size (mm)	
01519	420 x 210	20

7 3 PCS PAINT BRUSHES ENGLISH SET
• ПЛОСКИЕ КИСТИ (ФЛЕЙЦЕВЫЕ)
• ENGLISCHE PINSEL - 3-TLG . SET



• Natural bristle • Galvanised ferrules
• Wooden handles • 60% of brush bristle is the same length

Code	Size (mm)	
43014	24,36,90	45

8 PAINT BRUSHES
• ПЛОСКИЕ КИСТИ (ФЛЕЙЦЕВЫЕ) • ENGLISCHE PINSEL



• Natural bristle • Galvanised ferrule
• Wooden handle • 60% of brush bristle is the same length

Code	Width (mm)	Thickness (mm)	
43022	25	14	50
43023	36	14	50
43025	50	14	50
43026	63	14	50
43027	76	14	50
43029	90	14	50
43021	102	14	25

9 PAINT BRUSHES
• ПЛОСКИЕ КИСТИ (ФЛЕЙЦЕВЫЕ) • PROFESSIONELLE ENGLISCHE PINSEL



• Natural bristle • Galvanised ferrule
• Coated wooden handle • 60% of brush bristle is the same length

Code	Width (mm)	Thickness (mm)	
43062	1"	15	50
43063	1½ "	15	50
43065	2"	15	50
43066	2½"	15	50
43067	3"	15	50
43068	3½"	15	50
43069	4"	15	50

1 RADIATOR PAINT BRUSHES
• РАДИАТОРНЫЕ КИСТИ • HEIZKÖRPERPINSEL



- Natural bristle • Galvanised ferrule
- Wooden handle • 60% of brush bristle is the same length

Code	Width (mm)	Thickness (mm)	
43032	25	8	50
43033	36	8	50
43035	50	8	50
43036	63	8	50

2 WALLPAPER BRUSHES
• ОБОЙНЫЕ КИСТИ (КЛЕЙСТЕРНЫЕ) • TEPETENPINSEL



- Natural bristle • Galvanised ferrule
- Wooden handle

Code	Width (mm)	Thickness (mm)	
43050	90	30	30
43051	110	30	30
43053	130	30	30
43054	140	40	30
43055	150	50	30

3 WALL BRUSHES
• МАКЛОВИЦЫ • FLÄCHENSTREICHER



- Natural bristle • Wooden han

Code	Width (mm)	Thickness (mm)	
43056	160	65	20
43058	180	75	20
43059	190	85	20

4 PAINT ROLLERS
• МАЛЯРНЫЕ ВАЛИКИ • FELLWALZE



- Polyamide yarn cover
- Recommended for emulsion, acrylic, oil and latex paints • Handle with steel wire Ø 6 mm

Code	Diameter x Width (mm)	
43144	50 x 100	20
43145	50 x 140	35
43146	50 x 190	60
43147	50 x 250	50

5 REFILLS FOR PAINT ROLLER
• ЗАПАСНЫЕ ВАЛИКИ • ERSATZFELLMALERWALZE



- Polyamide yarn cover
- Recommended for emulsion, acrylic, oil and latex paints • For the handle with steel wire Ø 6 mm

Code	Diameter x Width (mm)	
43141	50 x 150	45
43142	50 x 190	30
43143	50 x 250	25

6 PAINT ROLLERS
• МАЛЯРНЫЕ ВАЛИКИ „СИНТЕКС" • LANGFLORIG MALERWALZE MIT SCHNURBELAG SYNTEX



- For economic coating of large areas with emulsion, latex and silicate paints • String cover • Don't use for paints and varnishes based on nitro thinners • Handle with steel wire Ø 8 mm

Code	Diameter x Width (mm)	
43154	50 x 190	60
43155	50 x 250	50

7 REFILLS FOR PAINT ROLLER
• ЗАПАСНЫЕ ВАЛИКИ „СИНТЕКС" • ERSATZMALERWALZE



- For economic coating of large areas with emulsion, latex and silicate paints • String cover • Don't use for paints and varnishes based on nitro thinners • For the handle with steel wire Ø 8 mm

Code	Diameter x Width (mm)	
43156	50 x 190	30
43157	50 x 250	40

8 PAINT ROLLERS
• МАЛЯРНЫЕ ПОРОЛОНОВЫЕ ВАЛИКИ • SCHAUMSTOFFMALER-WALZEN



- Designed for coating smooth surfaces
- Not recommended for cellulose-based paints and varnishes • Handle with steel wire Ø 6 mm

Code	Diameter x Width (mm)	
43125	35 x 50	70
43126	35 x 70	60
43127	35 x 110	40
43128	35 x 150	25
43129	50 x 150	20

9 REFILLS FOR PAINT ROLLERS
• ЗАПАСНЫЕ ПОРОЛОНОВЫЕ ВАЛИКИ
• ERSATZSCHAUMSTOFFMALERWALZE



- Recommended for coating smooth surfaces
- Not recommended for cellulose-based paints and varnishes • For the handle with steel wire Ø 6 mm

Code	Diameter x Width (mm)	
43120	35 x 50	10/300
43121	35 x 70	10/250
43122	35 x 100	10/130
43123	35 x 150	5/90
43124	50 x 150	5/80

1 PAINT ROLLERS

• МАЛЯРНЫЕ ВАЛИКИ • KURZFLORIGE MALERWALZE MIT SCHNURBELAG



- Cover with a short and thick string pile
- Recommended for coating smooth surfaces
- Handle with steel wire Ø 8 mm

Code	Diameter x Width (mm)	
43162	50 x 190	60
43163	50 x 250	50

2 REFILLS FOR PAINT ROLLERS

• ЗАПАСНЫЕ ВАЛИКИ • ERSATZMALERWALZE FÜR KURZFLORIGEN SCHNURBELAG



- Cover with a short and thick string pile
- Recommended for coating smooth surfaces
- For the handle with steel wire Ø 8 mm

Code	Diameter x Width (mm)	
43160	50 x 190	30
43161	50 x 250	25

3 PAINTERS BUCKET

• МАЛЯРНОЕ ВЕДРО • MALEREIMER



- Rectangular plastic bucket
- Wire handle

Code	Volume (l)	A x B x C (mm)	
43211	12	350 x 250 x 200	20

4 PAINT ROLLER KITS

• МАЛЯРНЫЕ ПОРОЛОНОВЫЕ ВАЛИКИ С ВАННОЧКОЙ • SCHAUMSTOFFWALZEN MIT FARBWANNE



- Sponge rollers for coating smooth surfaces
- Not recommended for cellulose-based varnishes • Plastic handle and a tray

Code	Roller width (mm)	
43130	50	30
43131	70	30
43132	110	30
43133	150	30

5 PAINT TRAYS

• МАЛЯРНЫЕ ПЛАСТИКОВЫЕ ВАННОЧКИ • FARBWANNEN



- Plastic

Code	Width (mm)	
43172	100	100
43173	210	100
43174	250	50
43175	320	50

6 PAINT ROLLER SETS

• МАЛЯРНЫЕ ВАЛИКИ С РЕШЕТКОЙ • FELLMALERWALZEN MIT MALERGITTER



- Rollers with polyamide yarn cover
- Recommended for emulsion, acrylic, oil and latex paints

Code	Roller width (mm)	
43150	100	30
43151	140	30
43152	190	30
43153	250	25

7 PAINT CRATES

• МАЛЯРНЫЕ ПЛАСТИКОВЫЕ РЕШЕТКИ • MALERGITTER



- Plastic

Code	Width (mm)	
43170	215	100
43171	270	100

8 EXTENSION BAR

• ТЕЛЕСКОПИЧЕСКАЯ РУКОЯТКА ДЛЯ МАЛЯРНЫХ ВАЛИКОВ • TELESKOPSTANGE



- For extending painter's tools

Code	Length (mm)	
43176	1000-2000	20

9 PAINTERS DUST SHEETS

• МАЛЯРНЫЕ ПЛЕНКИ • MALERFOLIEN



- For protecting surfaces while painted

Code	Size (m)	Thickness (µm)	
F60000	4 x 5	0.7	40
F60003	4 x 5	20	25
F60001	4 x 5	45	10

10 PAINT SCRAPER

• СКРЕБОК МАЛЯРНЫЙ • MALERSCHABER SCHWARZ



- For removing old paint from the surface

Code	Width (mm)	
01430	120	100

1 PAINT SCRAPER WITH REMOVAL BLADE

• СКРЕБОК МАЛЯРНЫЙ СО СМЕННЫМИ ЛЕЗВИЯМИ
• MALERSCHABER MIT AUSWECHSELBARER KLINGE



- Blade fixed with pressure screws
- For removing old paint from the surface

Code	Width (mm)	
01435	100	30

2 PAINT SCRAPER BLADE FOR 01435

• СМЕННОЕ ЛЕЗВИЕ ДЛЯ СКРЕБКА
• ERSATZKLINGEN FÜR SCHABER MIT ANGESCHRAUBTER KLINGE



- Replaceable blade for scraper 01435

Code	Width (mm)	
01436	100	300

3 PAINT SCRAPER WITH REMOVAL BLADE

• МАЛЯРНЫЙ СКРЕБОК СО СМЕННЫМ ЛЕЗВИЕМ
• MALERSCHABER MIT AUSWECHSELBARER KLINGE



- Snap-on blade
- For removing old paint from the surface

Code	Width (mm)	
01437	100	30

4 TILE CUTTERS BLADES FOR 01437

• СМЕННОЕ ЛЕЗВИЕ ДЛЯ СКРЕБКА
• ERSATZKLINGEN FÜR SCHABER MIT SCHNAPPVERSCHLUSS



- Replaceable blade for scraper 01437

Code	Width (mm)	
01438	100	300

5 PAINTING PAPER TAPES

• МАЛЯРНЫЕ КРЕППИРОВАННЫЕ ЛЕНТЫ
• MALERBAND



- Glue based on natural rubber and artificial components • Yellow • Paper • Length 35m • Multipurpose • Max. work temperature 60°C • The tape should be removed directly after coating • The tape must not be exposed to sunlight

Code	Width (mm)	
43320	19	12/48
43326	25	9/36
43331	30	10/40
43339	38	6/24
43349	48	6/24

6 INSULATION TAPES

• ТЕФЛОНОВЫЕ УПЛОТНИТЕЛЬНЫЕ ЛЕНТЫ • ISOLIERBÄNDER



13119

13114
13116
13118

- For gas systems

Code	Width x Thickness x Length (mm x mm x m)	
13119	12 x 0.1 x 13.2	250

- For plumbing works

Code	Width x Thickness x Length (mm x mm x m)	Quantity	
13114	12 x 0.1 x 13.2	1	10/250
13116	19 x 0.2 x 16.5	1	5/50
13118	12 x 0.075 x 13.2	1	10/250

7 INSULATION TAPES

• ТЕФЛОНОВЫЕ УПЛОТНИТЕЛЬНЫЕ ЛЕНТЫ • ISOLIERBÄNDER



- For plumbing works

Code	Width x Thickness x Length (mm x mm x m)	Quantity	
13110	12 x 0.075 x 10	1	10/1000
13113	12 x 0.075 x 10	3	150/300

8 SILICONE TAPES

• ОТДЕЛОЧНЫЕ СИЛИКОНОВЫЕ ЛЕНТЫ
• FERTIGUNGSSILIKONBAND



- White

Code	Width x Length (mm x m)		
MNSI223W	22 x 3.35	x	36
MNSI383W	38 x 3.35	x	20

9 VINYL FLOORING TAPE

• ДВУХСТОРОННЯЯ МОНТАЖНАЯ ЛЕНТА ДЛЯ КОВРОВЫХ ПОКРЫТИЙ • TEPPICHKLEBEBAND



- Two-side glue • Made from polypropylene
- Recommended for sticking flooring, carpets, boards, banners etc.

Code	Width x Length (mm x m)	
F32000	50 x 5	52

10 ALL-PURPOSE TAPES

• УНИВЕРСАЛЬНЫЕ КЛЕЮЩИЕ ЛЕНТЫ • KLEBEBAND „DUCT TAPE"



- Reinforced with plastic mesh • Multipurpose
- Used e.g. for pipe sealing, surface repair • Grey

Code	Width x Length (mm x m)	
13131	48 x 9	72
13132	48 x 22	30

1 ALL-PURPOSE TAPES

• УНИВЕРСАЛЬНЫЕ КЛЕЮЩИЕ ЛЕНТЫ • UNIVERSALKLEBEBAND "DUCT TAPE"



- Grey • Reinforced with plastic mesh
- All-purpose, e.g. for sealing pipes, repairing surfaces etc.

Code	Width x Length (mm x m)	
13136	48 x 9	24
13138	48 x 22	24

2 PACKING TAPE

• КЛЕЮЩАЯ ЛЕНТА – ПРОЗРАЧНАЯ (СКОТЧ) • PACKKLEBEBAND DURCHSICHTIG



- Artificial-ingredient glue • Transparent

Code	Width x Length (mm x m)	
13133	48 x 35	6/36

3 TRANSPARENT PACKING TAPES

• КЛЕЮЩАЯ ЛЕНТЫ - ПРОЗРАЧНАЯ (СКОТЧ) • PACKKLEBEBAND DURCHSICHTIG

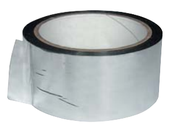


- Artificial-ingredient glue

Code	Width x Length (mm x m)	Colour	
13171	48 x 35	transparent	12/36
13134	48 x 35	brown	12/36

4 ADHESIVE TAPE

• КЛЕЮЩАЯ ЛЕНТА (СКОТЧ) • KLEBEBAND

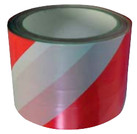


- Polypropylene adhesive tape metallized
- Made from PP foil with acrylic glue

Code	Width x Length (mm x m)	
13151	48 x 50	36

5 WARNING TAPE

• СИГНАЛЬНАЯ ЛЕНТА • WARNBAND

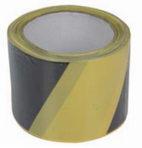


- Red and white without glue

Code	Width x Length (mm x m)	
13163	75 x 100	24

6 YELLOW-BLACK WARNING TAPES

• СИГНАЛЬНАЯ ЛЕНТА • WARNBAND



- Yellow and black without glue

Code	Width x Length (mm x m)	
13165	75 x100	24
13167	120 x 100	12

7 INSULATION TAPES

• ИЗОЛЯЦИОННЫЕ ЛЕНТЫ • ISOLIERBÄNDER



- Certified up to 1 kV • PVC • Thickness 0.15 mm • Sold individually • Different colours

Code	Width x Length (mm x m)	
13101	15 x 10	10/100
13102	19 x 20	8/96

8 INSULATION TAPES - PVC

• ИЗОЛЯЦИОННЫЕ ЛЕНТЫ • ISOLIERBÄNDER



- Certified up to 1kV • PVC • Thickness 0.15mm • Sold individually

Code	Width x Length (mm x m)	Colour	
13101C	15 x 10	black	10/100
13101Z	15 x 10	green	10/100
13101L	15 x 10	yellow/green	10/100
13101R	15 x 10	red	10/100
13102C	19 x 20	black	8/96
13102Z	19 x 20	green	8/96
13102L	19 x 20	yellow/green	8/96

9 WOOD SCRAPERS

• ЦИКЛИ • ZIEHKLINGEN



- Wooden handle
- For finishing works
- For removing old paint from wooden surface

Code	Width (mm)	
61304	40	25
61306	60	25

- Wood scraper blades

Code	Width (mm)	
61401	40	100
61402	60	100

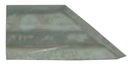
10 ADJUSTABLE TILE HOLE CUTTERS

• РЕЗАКИ ДЛЯ ПЛИТКОРЕЗА – БАЛЕРИНКА • FLIESENKNABBER



- With replaceable blade

Code	Size (mm)		
75010	30 - 110	x	100



- Replaceable blade for 75010

Code	Size (mm)	
75012	12,8 x 5,7	100



- With fixed blade

Code	Size (mm)		
75011	30 - 110	x	100
75770	20 - 90	x	100

1 ADJUSTABLE TILE HOLE CUTTER

• СВЕРЛО ПО КЕРАМИКЕ • KNABBER FÜR BOHRUNGEN IN FLIESEN



• Pin diameter 12 mm • Three blades on the perimeter every 120° with replaceable blades 75012 • For precision hole cutting in tiles, three blades ensure precise finish

Code	Diameters (mm)	
75013	33, 53, 67, 83	10

2 JOINT SCRUBBERS

• СКРЕБОК ДЛЯ КАФЕЛЯ (ОЧИСТКА ШВОВ) • FUGENSCHABER



• Replaceable blade with tungsten fill
• Plastic handle

Code	Size (mm)	
01404	30	50
01405	50	40

• Replaceable blade

Code	Size (mm)	
01410	30	10
01411	50	50

3 JOINT SCRUBBERS

• СКРЕБОК ДЛЯ КАФЕЛЯ (ОЧИСТКА ШВОВ) • FUGENSCHABER

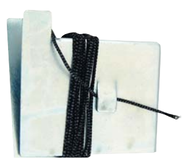


• Blade with tungsten carbide coat • Plastic handle • Delivered with two blades

Code	Size (mm)		
69401	50	x	50
69402	38	x	60

4 DEVICE FOR LEVELING TILES

• ОТВЕС ДЛЯ УКЛАДКИ КАФЕЛЯ • VORRICHTUNG ZUM AUSRICHTEN VON FLIESEN



• Enables to determine tile laying line quickly and easily • Galvanised plates are holders of a thin rubber delineating the joint course when stretched

Code	
61380	60

5 WOODEN HAMMER

• ДЕРЕВЯННАЯ КИЯНКА • HOLZHAMMER



• Woodworker's hammer for slogging

Code	Weight (g)	
12011	500	30

6 WOODEN HAMMER

• ДЕРЕВЯННАЯ КИЯНКА • HOLZHAMMER



• Tinworker's hammer for slogging

Code	Diameter (mm)	
12012	70	40

7 SPOKESHAVE

• СКОБЕЛЬ • SCHABMESSER



• Wooden handles • In a plastic bag

Code	Length (mm)	Blade length (mm)	
12266	300	200	25

8 PICKAXES

• ДВУХЗУБЫЕ КИРКИ • KEILHAUEN



HRC 43±3

• Quenched at ends • Wooden shank 90 cm long • Delivered for self-assembly • Head weight tolerance: 12335: from 1.3 to 1.5 kg, 12330 from 2.3 to 2.5 kg

Code	Weight (g)	
12335	1500	6
12330	2500	6

9 PICKAXE

• ОДНОЗУБОЕ КАЙЛО • BERGBAUSPITZHACKE



HRC 43±3

• Quenched at ends • Wooden shank 90 cm long • Delivered for self-assembly • Head weight tolerance: from 1.3 to 1.5 kg

Code	Weight (g)	
12331	1500	6

1 STRAIGHT SPADE

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА • SPATEN GERADE GENIETET



• Wooden handle with T holder • Riveted

Code	Length (mm)	
12337	1170	5

2 STRAIGHT SPADE

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ ЛОПАТА • SPATEN GERADE



• Wooden handle with T holder • Lightweight structure without riveting

Code	Length (mm)	
12338	1170	5

3 STRAIGHT SPADES

• ШТЫКОВАЯ ПРЯМОУГОЛЬНАЯ МЕТАЛЛИЧЕСКАЯ ЛОПАТЫ • SPATEN GERADE



• Metal handle with DY holder • Head welded to the handle • 12271 - plastic caps on handle

Code	Head size (mm)	Colour	
12271	200 x 280	graphite	5

4 SHARP SPADES

• ШТЫКОВАЯ ТРЕУГОЛЬНАЯ МЕТАЛЛИЧЕСКАЯ ЛОПАТЫ
• SPATEN SCHARF



• Metal handle with DY holder • Head welded to the handle • 12270 - plastic caps on handle

Code	Head size (mm)	Colour	
12270	200 x 280	graphite	5

5 CORDIAL SAND SPADE

• СОВКОВАЯ ЛОПАТА ДЛЯ ПЕСКА • SANDSCHAUFEL HERZFÖRMIG



• Wooden handle with T holder

Code	Head size (mm)	Handle length (mm)	
12275	230 x290	1000	5

6 AND SHOVEL

• СОВКОВАЯ ЛОПАТА • SANDSCHAUFEL



• Wooden handle with T holder

Code	Width (mm)	Length (mm)	
12332	240	1170	5

1 SAND SHOVELS
• СОВКОВАЯ ЛОПАТЫ • SANDSCHAUFEL



• Metal handle with DY holder • Head welded to the handle • 12273 - plastic caps on handle

Code	Head size (mm)	Colour	
12273	230 x 280	graphite	5

2 COAL SHOVEL
• ЛОПАТА ДЛЯ УГЛЯ • KOHLESCHAUFEL

• Wooden handle with T holder

Code	Head size (mm)	Length (mm)	
12333	240 x 315	1250	5

3 COAL SHOVEL
• ЛОПАТА ДЛЯ УГЛЯ • KOHLESCHAUFEL



• Wooden handle with T holder

Code	Head size (mm)	Length (mm)	
12334	285 x 355	1160	5

4 PLASTIC SNOW SHOVEL
• ЛОПАТА ДЛЯ СНЕГА • SCHNEESCHAUFEL AUS KUNSTSTOFF



• For removing snow or loose materials • Black plastic head with a steel section • 90 cm wooden handle with a plastic DY holder • Delivered for self-assembly without fixing screws

Code	Head size (mm)	
12354	455 x 360	10

5 PLASTIC SNOW SHOVEL
• ЛОПАТА ДЛЯ СНЕГА • SCHNEESCHAUFEL AUS KUNSTSTOFF



• For removing snow or loose materials • Black plastic head with a steel section • 90 cm wooden handle with a plastic DY holder • Delivered for self-assembly with the fixing screws

Code	Head size (mm)	
12342	485 x395	10

6 PLASTIC SNOW SHOVEL
• ЛОПАТА ДЛЯ СНЕГА • SCHNEESCHAUFEL AUS KUNSTSTOFF



• For removing snow or loose materials • Colourful plastic head with a steel section • 90 cm wooden handle with a plastic DY holder
• Delivered for self-assembly with the fixing screws

Code	Head size (mm)	
12367	440 X 335	10

7 PLASTIC SNOW SHOVEL
• ЛОПАТА ДЛЯ СНЕГА • SCHNEESCHAUFEL AUS KUNSTSTOFF



• For removing snow or loose materials • Heavy-duty, coloured plastic head with an aluminium section • 90 cm wooden handle, dia. 38mm, with a plastic DY holder • Delivered for self-assembly with the fixing screws

Code	Head size (mm)	
12363	445 x 410	10

1 METAL SNOW SHOVEL

• ЛОПАТА ДЛЯ СНЕГА МЕТАЛЛИЧЕСКАЯ • METALLSCHNEESCHAUFEL



- For removing snow or loose materials • Steel sheet head 1.2 mm thick
- Profiled head, fixed with 3 aluminium rivets to the metal handle dia. 32 mm, bent • Handle with a plastic DY holder

Code	Head size (mm)	
12347	480 x 310	5

2 METAL SNOW SHOVEL

• ЛОПАТА ДЛЯ СНЕГА МЕТАЛЛИЧЕСКАЯ • SCHNEESCHAUFEL



- For removing snow or loose materials • Delivered for self-assembly without fixing screws • Steel sheet head 1.2 mm thick • Profiled head on a wooden handle dia. 32 mm and 100 cm long • Handle with a wooden T holder

Code	Head size (mm)	
12348	480 x 310	5

3 ALUMINIUM SNOW SHOVEL

• ЛОПАТА ДЛЯ СНЕГА АЛЮМИНИЕВАЯ • ALUMINIUMSCHNEESCHAUFEL



- For removing snow or loose materials • Delivered for self-assembly without fixing screws • Aluminium sheet head 2mm thick • Profiled head on a wooden handle dia. 32 mm and 100 cm long • Handle with a wooden T holder

Code	Head size (mm)	
12349	480 x 310	5

4 SNOW SLEIGHT SHOVEL

• ЛОПАТА-ПЛУГ • SCHNEEABSTREIFER



- For pushing aside snow or loose materials • Black plastic head with an aluminium section, two additional rolls for easier rake guiding on the surface • Metal handle • Delivered for self-assembly with the fixing components

Code	Head size (mm)	
12192	785 x 450	5

5 SNOW SLEIGHT SHOVEL

• ЛОПАТА-ПЛУГ • SCHNEEABSTREIFER



- Heavy-duty plastic head on 2 wheels with an aluminium profile • Metal holder • Delivered for self-assembly with fixing components

Code	Size (mm)	
12364	785 x 450	5

1 ICE HAMMER
• ЛЕДОРУБ УЛИЧНЫЙ • EISSTÖSSER



• Wooden handle • For ice removal

Code	Length [mm]	Width [mm]	
12370	1180	200	5

2 BRUSH WITH SCRAPER
• ЩЕТКА СО СКРЕБКОМ • BÜRSTE MIT SCHABER



• Polypropylene handles • Scraper made from ABS fixed with a non-detachable snap fastener • PET bristle • Delivered in five (mixed) colours (red, green, blue, yellow, black), in boxes 10 pcs. of each colour

Code	Length [mm]	Width of sweeping [mm]	Width of scraper [mm]	
32058	425	120	88	60

3 WOODEN HANDLE FOR MASONRY HAMMER
• ДЕРЕВЯННЫЙ ЧЕРЕНОК ДЛЯ МОЛОТКА КАМЕНЩИКА • MAURERHAMMERSTIEL



• Beech wood

Code	Length (cm)	For hammer weight (g)	
12902	32	500 - 800	20

4 WOODEN HANDLES FOR MACHINIST HAMMERS
• ДЕРЕВЯННЫЕ ЧЕРЕНКИ ДЛЯ МОЛОТКА • HOLZHAMMERSTIELE



• Beech wood
A - profile height for the installation [mm]
A - profile width for the installation [mm]
12900 (A-28, B-18), 12901 (A-30, B-20)
12903 (A-32, B-22), 12904 (A-34, B-24)
12905 (A-36, B-26), 12906 (A-40, B-28)
12907 (A-42, B-30), 12908 (A-46, B-32)
12909 (A-48, B-34), 12932 (A-50, B-36)

Code	Length (cm)	For hammer weight (g)	
12900	28	100	50
12901	32	200	50
12903	36	300 - 400	50
12904	40	500 - 800	50
12905	42.5	800 - 1000	50
12906	50	1000 - 1500	25
12907	60	2000 - 3000	10
12908	70	4000 - 5000	10
12909	80	6000 - 8000	10
12932	90	8000 - 10000	10

5 WOODEN HANDLES FOR AXES
• ДЕРЕВЯННЫЕ ЧЕРЕНКИ ДЛЯ ТОПОРОВ • AXTSTIELE



• Beech wood • Profiled

Code	Length (cm)	For hammer weight (g)	
12970	32	400	25
12910	36	600	25
12911	50	800	25
12912	60	1000	25
12913	70	1250	25
12914	80	1500-1800	25
12915	90	1800-2500	25

6 WOODEN HANDLES FOR PICKS
• ДЕРЕВЯННЫЕ ПРОФИЛИРОВАННЫЕ ЧЕРЕНКИ ДЛЯ КАЙЛ • SPITZHACKESTIELE



• Beech wood • Profiled

Code	Length (cm)	For hammer weight (g)	
12918	90	1500	10
12919	90	2500	10

1 WOODEN HANDLES FOR SHOVELS

• ДЕРЕВЯННЫЕ ЧЕРЕНКИ ДЛЯ ЛОПАТ
• SCHAUFELSTIELE



• Beech wood • Wooden DY holder

Code	Length (cm)	
12931	100	10



• Beech wood • T-Type holder

Code	Length (cm)	
12930	100	10

• Beech wood • No holder, diameter Ø 38 mm

Code	Length (cm)	
12925	90	10
12927	115	10
12929	150	10

2 WOODEN HANDLES FOR RAKES

• ДЕРЕВЯННЫЕ ЧЕРЕНКИ ДЛЯ ГРАБЛЕЙ • HARKESTIELE

• Beech wood • Diameter Ø 28 mm

Code	Length (cm)	
12945	100	25
12922	110	25
12923	130	25
12924	150	25

3 WOODEN HANDLES FOR STREET BRUSHES

• ДЕРЕВЯННЫЕ ЧЕРЕНКИ ДЛЯ УЛИЧНЫХ ЩЕТОК
• STRASSENBESENSTIELE

• Beech wood • Diameter Ø 22 mm
• For street brushes

Code	Length (cm)	
12941	120	25
12942	150	25
12943	180	25

4 THREADED BROOM HANDLE

• РУЧКА К ЩЕТКЕ ВВИНЧИВАЕМАЯ • BESENSTIEL MIT GEWINDE

• Beech wood
• With a hook and a plastic thread

Code	Length (cm)	
12933	110	25

5 WOODEN HANDLE FOR AXE-HAMMERS

• ДЕРЕВЯННЫЙ ЧЕРЕНОК ДЛЯ ТОПОРОВ-КОЛУНОВ
• HOLZHAMMERAXTSTIELE



• Beech wood • Profiled

Code	Length (cm)	For hammer weight (g)	
12916	90	2500, 4000	10

6 WOODEN HANDLE FOR SCYTHE

• ДЕРЕВЯННЫЕ ЧЕРЕНКИ ДЛЯ КОС • SENSENSTIELE



• Poplar wood, diameter 38 mm (at holders square cross section)
• For scythes, without any ferrules

Code	Length (cm)	
12971	170	10

7 RING WEDGES

• КОЛЬЦЕВЫЕ МЕТАЛЛИЧЕСКИЕ КЛИНЬЯ • RINGKEILE

• Metal • Delivered in plastic bags with cardboard hangers

Code	Diameters [mm]	
12920	7, 8, 10	100
12921	12, 13, 15	100

8 RING WEDGES

• КОЛЬЦЕВЫЕ МЕТАЛЛИЧЕСКИЕ КЛИНЬЯ • RINGKEILE



• Metal • Delivered in plastic bags with cardboard hangers

Code	Diameters [mm]		
12944	7,8,10	x	100
12946	12,13,15	x	100

9 RING WEDGES AND WOOD WEDGES

• КОМПЛЕКТ КЛИНЬЕВ • RINGKEILE



• The set includes: metal ring and wooden wedge • Delivered in a plastic bag with a hanger

Code	Ring diameter Ø (mm) / Wooden wedge width (mm)		
12947	7 / 20	x	100
12948	8 / 25	x	100
12950	10 / 30	x	100
12952	12 / 35	x	100
12953	13 / 40	x	100
12955	15 / 45	x	100
12958	18 / 50	x	100

10 ENGINEERING FILES

• НАПИЛЬНИКИ • FEILEN



• Hardness 61 ± 2 HRC
• Beech wood handle

HRC 61±2

• Hand files

Code	Size (mm)	Dimension of the cross section (mm)	Incision	
69108	150	15.3 x 3.6	Nr 1	10/120
69103	150	15.3 x 3.6	Nr 2	10/120
69118	150	15.3 x 3.6	Nr 3	10/120
69101	200	19.5 x 4.8	Nr 1	5/75
69107	200	19.5 x 4.8	Nr 2	5/75
69105	200	19.5 x 4.8	Nr 3	5/75
69102	250	24.5 x 6.3	Nr 1	5/60
69104	250	24.5 x 6.3	Nr 2	5/60
69106	250	24.5 x 6.3	Nr 3	5/60

Half round files

Code	Size (mm)	Dimension of the cross section (mm)	Incision	
69211	150	15.8 x 4.5	Nr 1	10/120
69203	150	15.8 x 4.5	Nr 2	10/120
69213	150	15.8 x 4.5	Nr 3	10/120
69201	200	20.7 x 5.7	Nr 1	5/75
69207	200	20.7 x 5.7	Nr 2	5/75
69205	200	20.7 x 5.7	Nr 3	5/75
69202	250	24.5 x 6.8	Nr 1	5/60
69204	250	24.5 x 6.8	Nr 2	5/60
69206	250	24.5 x 6.8	Nr 3	5/60

Round files

Code	Size (mm)	Dimension of the cross section (mm)	Incision	
69249	150	6.3	Nr 1	10/120
69250	150	6.3	Nr 2	10/120
69254	150	6.3	Nr 3	10/120
69252	200	8.0	Nr 1	5/75
69251	200	8.0	Nr 2	5/75
69253	200	8.0	Nr 3	5/75
69255	250	10.0	Nr 1	5/60
69256	250	10.0	Nr 2	5/60
69257	250	10.0	Nr 3	5/60

Square files

Code	Size (mm)	Dimension of the cross section (mm)	Incision	
69300	150	6.1	Nr 1	10/120
69301	150	6.1	Nr 2	10/120
69304	150	6.1	Nr 3	10/120
69305	200	7.6	Nr 1	5/75
69303	200	7.6	Nr 2	5/75
69306	200	7.6	Nr 3	5/75
69307	250	9.5	Nr 1	5/60
69302	250	9.5	Nr 2	5/60
69308	250	9.5	Nr 3	5/60

3-square

Code	Size (mm)	Dimension of the cross section (mm)	Incision	
69341	150	10	Nr 1	10/120
69342	150	10	Nr 2	10/120
69343	150	10	Nr 3	10/120
69348	200	14	Nr 1	5/75
69351	200	14	Nr 2	5/75
69349	200	14	Nr 3	5/75
69356	250	17	Nr 1	5/60
69350	250	17	Nr 2	5/60
69357	250	17	Nr 3	5/60

1 5 PCS ENGINEERING FILE SET

• НАБОР НАПИЛЬНИКОВ – 5 ШТ.
• FEILEN - SET 5 TLG.



HRC 61±2

• Wooden handles • Plastic case • Set of 5 pcs.: flat, semi-rounded, round, square, triangular

Code	Size (mm)	Incision	
69813	150	Nr 1	25
69810	150	Nr 2	25
69811	200	Nr 1	15
69812	200	Nr 2	15

2 ROUND CHAIN SAW FILE

• КРУГЛЫЙ НАПИЛЬНИК ДЛЯ ЗАТОЧКИ ЦЕПНЫХ ПИЛ
• SÄGENFEILEN - RUND



HRC 61±2

• Wooden handle

Code	Size (mm)	Diameter (mm)	
69501	150	4	80

3 TRIANGULAR MILL SAW FILES

• ТРЕХГРАННЫЕ НАПИЛЬНИКИ ДЛЯ ЗАТОЧКИ ЦЕПНЫХ ПИЛ
• SÄGENFEILEN - DREIECKIG



• Wooden handles
• File profile in the shape of the equilateral triangle

HRC 61±2

Code	Size (mm)	Width (mm)	Type	
69515	150	13	A	10/120
69511	150	10	B	10/120
69513	150	7.1	C	10/120
69512	175	10	B	5/75
69514	175	8	C	5/75

4 FILE HANDLES

• ДЕРЕВЯННЫЕ РУКОЯТКИ ДЛЯ НАПИЛЬНИКОВ • FEILENGRIFFE



• Wooden with a metal ferrule
• old without holes for mounting file

Code	Size (mm)	
12935	75	1000
12936	95	500
12937	115	300
12938	135	200
12939	155	150

5 6 PCS WARDING FILES SET

• НАБОР НАПИЛЬНИКОВ – 6 ШТ. • SCHLÜSSELFEILEN - SET 6 TLG.



• Wooden handles • Plastic case
• The set includes: flat, flat-convergent, semirounded, round, triangular, square

Code	Size (mm)	
69691	100	25

6 RASPS

• РАШПИЛИ • HOLZRASPELN



• Wooden handle • Incisions no. 2

Code	Size (mm)	Dimension of the cross section (mm)	Type	
69901	200	19.5 x 4.8	flat	5/75
69941	200	20.7 x 5.5	semi-rounded	5/75
69921	200	8	round	5/75

7 3 PCS RASP SETS

• НАБОР РАШПИЛЕЙ – 3 ШТ. • HOLZRASPELN - SET 3 TLG.



• Wooden handles • Plastic case
• The set includes: flat, semi-rounded, round

Code	Size (mm)	Incision	
69970	200	Nr 1	25
69971	200	Nr 2	25

8 6 PCS NEEDLE FILE SET

• НАБОР НАДФИЛЕЙ – 6 ШТ. • FEINFEILE - SET 6 TLG.



• Length 180 mm • Incision Nr 1 • Plastic case • The set includes: flat, flat-convergent, semi-rounded, triangular, square, round

Code	Quantity (pcs.) in the set	
69601	6	25

9 CARBIDE GRIT FILES

• НАПИЛЬНИКИ С ВОЛЬФРАМОВЫМ НАПЫЛЕНИЕМ
• WOLFRAMFEILE



• Plastic handle • Recommended for most materials, incl. metal, plastic, laminate, ceramics, glass, wood, gypsum, quenched steel etc.

Code	Type	Size (mm)	
69411	flat large	200	1
69413	flat small	150	1
69412	semi-rounded	150	1
69414	round	150	1
69415	square	150	1

10 WIRE STEEL BRUSH

• ПРОВОЛОЧНАЯ ЩЕТКА • DRAHTSTAHLBÜRSTE



• Wooden handle • Brass wire bristle

Code	Length (mm)	Number of rows	
32033	258	3-row	60
32034	258	4-row	60
32035	268	5-row	60
32036	268	6-row	60

11 TRIPLE LEG PULLERS

• ТРЕХЗАЖИМНЫЕ СЪЕМНИКИ ПОДШИПНИКОВ
• LAGERABZIEHER DREIACHSIG



Code	Max. opening x arm length (mm)	
29730	100 x 70	26
29731	150 x 110	10
29732	200 x 130	5
29733	250 x 160	5
29734	300 x 180	4
29735	350 x 180	3

1 TWIN LEG PULLERS

• ДВУХЗАЖИМНЫЕ СЪЕМНИКИ ПОДШИПНИКОВ
• LAGERABZIEHER ZWEIACHSIG



Code	Max. size (width x height mm)	
29736	50 x 40	100



Code	Max. size (width x height mm)	
29737	100 x 90	25
29738	150 x 120	16
29739	200 x 150	10
29740	250 x 170	8
29741	300 x 190	6
29742	350 x 210	1
29743	400 x 230	1



Code	Max. size (width x height mm)	
29744	500 x 230	1
29745	600 x 230	1
29746	800 x 230	1
29747	1000 x 230	1

2 JAB SAW

• ДЕРЖАТЕЛЬ НОЖОВОЧНОГО ПОЛОТНА
• BÜGEL MIT SÄGEBLATT



• Plastic handle
• Blade 300 x 25 mm

Code	Length (mm)	
23212	300	200

3 JAB SAW

• ДЕРЖАТЕЛЬ НОЖОВОЧНОГО ПОЛОТНА • SÄGEBLATTBÜGEL



• Plastic handle
• For blade 300 x 25 mm

Code	Length (mm)	
23210	225	200

4 MITRE BOXES

• ПЛАСТИКОВЫЕ СТУСЛА • GEHRUNGSLADEN



• Made from high quality plastic • Enable to cut at the angles 30°, 45°, 60° and 90°
• 23306 with additional eccentrics

Code	Length (mm)	Max. width of cut strips (mm)	
23301	210	40	80
23302	235	50	50
23303	290	80	30
23305	325	120	18
23306	325	120	18

5 MITRE BOX

• ПЛАСТИКОВОЕ СТУСЛО • GEHRUNGSLADE

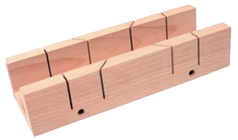


• Plastic
• Enable to cut at the angles 45° and 90°

Code	Length (mm)	Max. width of cut strips (mm)	
01645	300	65	30

6 MITRE WOOD BOX

• ДЕРЕВЯННОЕ СТУСЛО • GEHRUNGSLADE HÖLZERN



• Wooden
• Enables to cut at the angles 45° and 90°

Code	Length (mm)	Max. width of cut strips (mm)	
23313	300	65	25

7 UNIVERSAL TITANIUM CARBIDE DRILLS

• СВЕРЛА ПО МЕТАЛЛУ С ТИТАНОВЫМ НАПЫЛЕНИЕМ
• UNIVERSALBOHRER - AUS TITAN



• The core made from CrV steel • The plate from special steel type: cobalt and titanium tungsten, thanks to which the drill gets a maximum hardness, resistance to abrasion and temperature • Drill for making holes in different materials, e.g. glass, porcelain, ceramics, concrete, marble, cast iron, wood, plastic, glass fibre, granite, laminate, quenched steel

Code	Diameter x Length (mm)	
16735	3.5 x 75	100
16704	4.0 x 80	100
16705	5.0 x 90	100
16706	6.0 x 100	100
16707	7.0 x 110	100
16708	8.0 x 120	50
16709	9.0 x 130	50
16710	10.0 x120	50
16740	10.0 x 140	50
16711	11.0 x 160	50
16712	12.0 x 160	50
16713	13.0 x 200	50
16714	14.0 x 200	10
16716	16.0 x 200	10
16718	18.0 x 200	10
16720	20.0 x 200	10

1 WOOD HOLE CUTTER

• РАЗДВИЖНЫЕ СВЕРЛА ПО ДЕРЕВУ • KNABBER FÜR HOLZ



- Replaceable blade
- All-purpose, with adjustable diameters

Code	Range		
64010	30 - 150	x	50
64011	spare blade		100

2 DRILL WITH COUNTERSINK

• СВЕРЛО ПО ДЕРЕВУ С ЗЕНКОВКОЙ • BOHRER FÜR MÖBEL-SCHRAUBEN



- Pilot drill dia. 5 mm
- The set includes an Allen wrench for fixing

Code	Countersink diameter (mm)		
26172	7	x	100

3 WOLFRAM HOLE SAW SET

• НАБОР КОРОНЧАТЫХ ПИЛ С ВОЛЬФРАМОВЫМ НАСЫПОМ • LOCHSÄGEN MIT WOLFRAMAUFSCHÜTTUNG



- The set includes: hole saws Ø 33, 53, 67, 73 mm; pilot drill with carbide and disc chuck
- Delivered in cardboard box

Code	Quantity [szt.]	Range (mm)		
26426	6	33 - 73	x	30

4 WOLFRAM HOLE SAWS

• КОРОНЧАТЫЕ ПИЛЫ С ВОЛЬФРАМОВЫМ НАСЫПОМ • LOCHSÄGEN MIT WOLFRAMAUFSCHÜTTUNG

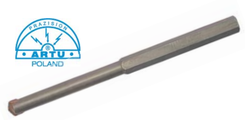


- Delivered individually on a profiled card

Code	Diameter (mm)		
26413	33	x	1
26414	43	x	1
26415	53	x	1
26416	67	x	1
26417	73	x	1
26418	83	x	1

5 HOLE SAW MANDREL

• ЦЕНТРОВОЧНОЕ СВЕРЛО ДЛЯ КОРОНЧАТЫХ ПИЛ • ZENTRIERBOHRER FÜR LOCHSÄGEN



- Pilot drill with carbide - 10 mm with hex chuck • Delivered individually on a card

Code	Length (mm)		
26411	140	x	1

6 HOLE SAW LOCATING PLATE

• ДИСКОВЫЙ ДЕРЖАТЕЛЬ • AUFNAHMETELLER FÜR LOCHSÄGEN



- Delivered individually on a card
- For hole saws Ø 33, 43, 53, 67, 73, 83 mm

Code	Range (mm)		
26410	33 - 83	x	1

7 DRILL CLAMP

• НАСТОЛЬНЫЙ ДЕРЖАТЕЛЬ ДРЕЛИ • TISCHGRIFF FÜR BOHRMASCHINEN



- Made from plastic • Multilevel, rotary
- Fixing diameter Ø 43 mm with presser

Code	Type	
27046	for drilling machine	20

8 ARBOR

• АДАПТЕР - ПЕРЕХОДНИК ДЕРЖАТЕЛЬ ДИСКОВ ДЛЯ ДРЕЛИ • BOHRMASCHINENSCHAFT

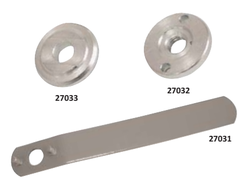


- Adapter for the drilling machine, for discs or for installing grinding wheels with 22 mm opening • Delivered in bulk

Code	Arbor diameter (mm)	
27030	6	50

9 ACCESSORIES FOR GRINDER

• ПРИНАДЛЕЖНОСТИ ДЛЯ УГЛОШЛИФОВАЛЬНОЙ МАШИНЫ • MONTAGEZUBEHÖR FÜR WINKELSCHLEIFER

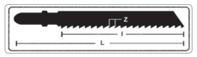


- Wrench for the angle grinder; pin distance 35 mm • Fixing nut for the angle grinder; hole distance 35 mm • Angle grinder pad
- Delivered in bulk

Code	Diameter (mm)	Type	
27031	14.5	Wrench	50
27032	M14	Nut	100
27033	14.2	Pad	100

1 JIG SAW BLADES

• ПИЛОЧКИ ДЛЯ ЭЛЕКТРОЛОБЗИКОВ • SCHWEIFSÄGEBLATT



chuck A



AEG - Bosch - Elu - Festo - Flex - Hitachi
HolzHer - Lenox - Mafell - Makita - Metabo
Milwaukee - Sparky - Tryton - Vulcan

chuck B



Black & Decker
Ryobi - Skil - Stayer - Kress - Wolf

CrV

• Cr-V steel • In the set of 5 on a card • Collective packagings: cardboard box: 20 boxes x 5 pcs. (100 pcs.)



• For finish cutting of hard- and softwood, plywood, laminated fibreboard, plastic
• Thickness of material to be cut 4-30 mm

Code	Chuck	Z	l x L (mm)	
83101	A	10TPI - 2.5MM	75x100	20
83401	B	10TPI - 2.5MM	75x100	20

• For straight-line cutting of materials 6-100 mm thick

Code	Chuck	Z	l x L (mm)	
83101L	A	10TPI - 2.5MM	110x132	20
83401L	B	10TPI - 2.5MM	110x132	20



• For non-chip finishing cutting, for cutting laminated fibreboard, hard- and softwood, plywood, plastic
• Thickness of material to be cut 4-30 mm

Code	Chuck	Z	l x L (mm)	
83102	A	10TPI - 2.5MM	75x100	20
83402	B	10TPI - 2.5MM	75x100	20



• For quick ‚rough cutting of hard- and softwood, plywood and plastic
• Thickness of material to be cut: – wood and plastic 6-60 mm, panels 8-60 mm

Code	Chuck	Z	l x L (mm)	
83103	A	6TPI - 4.0MM	75x100	20
83403	B	6TPI - 4.0MM	75x100	20

• For cutting materials 6-100 mm thick

Code	Chuck	Z	l x L (mm)	
83103L	A	6TPI - 4.0MM	110x132	20
83403L	B	6TPI - 4.0MM	110x132	20



• For very quick, straight-line finishing cutting in hard- and softwood and plywood
• Thickness of material to be cut 8-60 mm

Code	Chuck	Z	l x L (mm)	
83104	A	6TPI - 4.0MM	75x100	20
83404	B	6TPI - 4.0MM	75x100	20



• For very quick, curved-line finishing cutting in hard- and softwood and plywood
• Thickness of material to be cut 8-60 mm

Code	Chuck	Z	l x L (mm)	
83105	A	6TPI - 4.0MM	75x100	20
83405	B	6TPI - 4.0MM	75x100	20



• For quick rough cutting of hard- and softwood, and plastic

Code	Chuck	Z	l x L (mm)	
83106	A	8TPI - 3.0MM	75x100	20
83406	B	8TPI - 3.0MM	75x100	20

• For cutting materials 6-100 mm thick

Code	Chuck	Z	l x L (mm)	
83106L	A	10TPI - 2.5MM	40x132	20



• For quick, rough, straight-line cutting of hardand softwood, plywood and plastic
• Thickness of material to be cut 2-15 mm

Code	Chuck	Z	l x L (mm)	
83108	A	12TPI - 2.0MM	50 x 75	20
83408	B	12TPI - 2.0MM	50 x 75	20



• For straight-line cutting of thin materials, e.g. soft steel, aluminium, non-ferrous metals, stainless steel • Thickness of material to be cut 1.5-3 mm

Code	Chuck	Z	l x L (mm)	
83111	A	21TPI - 1.2MM	50 x 75	20
83411	B	21TPI - 1.2MM	50 x 75	20
83110	A	28TPI - 0.9MM	50 x 75	20



• Bimetallic • For straight-line cutting of mild steel, aluminium, nonferrous metals, stainless steel, plexiglass
• Thickness of material to be cut 1.5-3 mm

Code	Chuck	Z	l x L (mm)	
83111F	A	21TPI - 1.2MM	50 x 75	20



• For cutting thicker of metals, non-ferrous metals and aluminium
• Thickness of material to be cut 3-6 mm

Code	Chuck	Z	l x L (mm)	
83113	A	12TPI - 2.0MM	50 x 75	20

• Bimetallic • For straight-line cutting of wood with nails, non-ferrous metals, aluminium, soft steel, other steel and plastic
• Thickness of materials: wood 3-30 mm, metal, aluminium and plastic 3-12 mm

Code	Chuck	Z	l x L (mm)	
831135F	A	12TPI - 2.0MM	75 x 100	20



• Perfect for straight cutting of plexi, non-ferrous metals and aluminium
• Thickness of materials to be cut: aluminium 2-20 mm, plexi and non-ferrous metals 2-10 mm

Code	Chuck	Z	l x L (mm)	
83116	A	12TPI - 2.0 mm	75x100	20



• Bimetallic • Perfect for quick straightline cutting of aluminium and metal, non-ferrous metals, glass fibre and plastic
• Cutting materials 4-20 mm thick

Code	Chuck	Z	l x L (mm)	
83118F	A	8TPI - 3.0MM	75x100	20



• For cutting abrasive materials, straight-line cutting of ceramics, glass, glass fibre
• Cutting materials 1-15 mm thick
• Delivered individually

Code	Chuck	Z	l x L (mm)	
83122	A	grit	75x100	5



• For non-chip finishing cutting of laminated fibreboard, hard- and softwood, plastic
• Thickness of material to be cut 3-60 mm

Code	Chuck	Z	l x L (mm)	
83160	A	12TPI - 2.0MM	75x100	20

• For cutting materials 3-100 mm thick

Code	Chuck	Z	l x L (mm)	
83165	A	12TPI - 2.0MM	110x132	20



• Bimetalic • For straight-line cutting of plastic, laminated panels, plywood, plexi, glass fibre
• Thickness of material to be cut: 3-40 mm, plywood 3-10 mm

Code	Chuck	Z	l x L (mm)	
83160F	A	12TPI - 2.0MM	75x100	20



• HSS - For straight-line cutting of ferrous and non-ferrous metals
• Thickness of material to be cut: 4-10 mm

Code	Chuck	Z	l x L (mm)	
83118	A	8TPI - 3.0MM	75x100	20



• HSS - For straight-line cutting of ferrous and non-ferrous metals, and plastic
• Thickness of material to be cut: 1-8 m

Code	Chuck	Z	l x L (mm)	
83115	A	12TPI - 2.0MM	110x132	20

1 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND

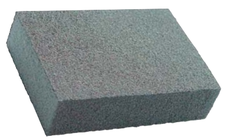


- Application: for grinding metals and wood
- Sold individually

Code	Diameter (mm)	Granulation	
45780	125	16	50
45781	125	24	50

2 ABRASIVE BLOCKS

• РУЧНЫЕ ШЛИФОВАЛЬНЫЕ БРУСКИ • SCHLEIFKLOTZ



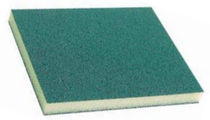
- SK 500 • Dimensions 98 x 68 x 25 mm
- Grit on four sides • Application: for finishing different coats, e.g. paint, varnish, filler; for machining wood or plastic

Code	Granulation	
49193	60	100
49194	80	100
49195	100	100
49196	120	100



3 ABRASIVE SPONGES

• ШЛИФОВАЛЬНЫЕ ПОЛИРОВОЧНЫЕ ГУБКИ • POLIERSCHWAMM



- SW 501 • Dimensions 120 x 98 x 10 mm
- Grit on two sides • Application: for finishing various surfaces, e.g. wood, paint, varnish, filler; possibly plastic

Code	Granulation	
45768A	120	100
45769A	220	100

4 SANDING PAD SET

• ОПОРНАЯ ТАРЕЛКА ДЛЯ ШЛИФОВАНИЯ • POLIERMITTELTRÄGER AUS GUMMI MULTIDYSK 125 MM MIT DISTANZHALTER AUS SCHAUMSTOFF



- Pin dia. 6 mm • Application: as an adapter for a drill on selfadhesive abrasive discs Ø 125 mm

Code	Diameter (mm)	Max. number of turns [1/min.]		
27039	125	3500	x	50

5 SANDING PAD SET

• ОПОРНАЯ ТАРЕЛКА ДЛЯ ШЛИФОВАНИЯ С КОНТРГАЙКОЙ
• POLIERMITTELTRÄGER AUS GUMMI MIT GEGENVERSCHLUSS MULTIDYSK 125 MM MIT KLETTE



- Pin dia. 6 mm • With a counter, enabling to adjust the disc tilting • Application: as an adapter for a drill on selfadhesive abrasive discs Ø 125 mm

Code	Diameter (mm)	Max. number of turns [1/min.]		
27041	125	3500	x	50

6 POLISHING FELT DISCS

• ПОЛИРОВАЛЬНЫЕ НАСАДКИ • POLITURZUBEHÖR



27045, 27050



27044

- Polishing fur with a puller



27042, 27053



27043, 27056

- Self-adhesive polishing felt

Code	Type	Diameter (mm)	
27042	felt	125	200
27043	velcro	125	200
27044	sponge	125	100
27045	fur	125	100
27050	fur	180	10
27053	felt	180	10
27056	velcro	180	20

7 SANDING PAD SET

• ОПОРНАЯ ТАРЕЛКА ДЛЯ ШЛИФОВАНИЯ
• POLIERMITTELTRÄGER AUS GUMMI MULTIDYSK 125 MM MIT KLETTE



- Pin dia. 6 mm • Application: as an adapter for a drill on selfadhesive abrasive discs Ø 125 mm

Code	Diameter (mm)	Max. number of turns [1/min.]		
27040	125	3500	x	50

8 POLISHING FELT DISC

• ПОЛИРОВАЛЬНАЯ ВОЙЛОЧНАЯ НАСАДКА СО ШНУРКОМ
• POLIERFELL MIT BAND



- For vehicle polishing machine

Code	Diameter (mm)	
27048	240	10

1 KROPELKA INSTANT GLUE

• КЛЕЙ МОМЕНТАЛЬНЫЙ KROPELKA • KROPELKA INSTANT KLEBER





- Used for instant gluing of: metal, leather, porcelain, wood, rubber, faience, ceramics, plastic (does not bond polyethylene and polypropylene) • Can be used to strengthen and protect: screws and nuts, knots on fishing lines, plastic tools • For repairing: jewelry, decorations and toys, mock-ups, rubber hoses, models • Does not fill in cavities • Contains ethyl cyanoacrylate

Code	Volume (ml)	
42038	2	240

2 KROPELKA INSTANT GLUE GEL

• КЛЕЙ МОМЕНТАЛЬНЫЙ KROPELKA ГЕЛЬ
• KROPELKA INSTANT GELKLEBER



- For all types of surfaces, both smooth and porous • Does not splash, spill or drip
- Gel form eliminates dripping, allows glue to be applied from the bottom and on vertical surfaces • Allows time to correct the positioning of glued elements immediately after their joining • An applied drop remains at the selected spot, which enables careful and precise dosing • Used for instant bonding of: metal, leather, porcelain, wood, rubber, faience, ceramics, plastic (does not bond polyethylene and polypropylene) • Can be used to strengthen and protect: screws and nuts, knots on fishing lines, plastic tools
- For repairing: jewelry, decorations and toys, mock-ups, rubber hoses, models
- Does not fill in cavities • Contains ethyl cyanoacrylate

Code	Weight (g)	
42039	3	240

3 METALLIC POXIPOL GLUE

• КЛЕЙ ПОКСИЛИН МЕТАЛЛИЧЕСКИЙ • METALLIC



120°C

- An excellent adhesive with the characteristics of a metallic binder • Can be applied in any thickness, does not shrink, does not stretch, does not deform • Does not flake and does not flow from vertical surfaces • Does not contain any solvents
- Upon setting it turns into a durable material that can be drilled, filed down with a file or a hand saw, suitable for processing with ordinary tools • Resistant to water, oils and temperatures up to 120 °C depending on the application • Used for bonding metal, glass, rubber, wood, concrete, ceramics, etc. • Used to repair cars, furniture, toys, sports goods, tableware • Can be used for mounting hooks and pegs in a wall, tool handles etc. • Can be used to seal leaks in pipes, seal metals and tanks for fuel, water, oil, etc.

Code	Volume (ml)	Weight (g)	
42042	14	21	240

4 TRANSPARENT POXIPOL GLUE

• КЛЕЙ ПОКСИЛИН БЕСЦВЕТНЫЙ
• TRANSPARENT POXIPOL KLEBER



120°C

- An excellent adhesive with the characteristics of a metallic binder • Can be applied in any thickness, does not shrink, does not stretch, does not deform • Does not flake and does not flow from vertical surfaces • Does not contain any solvents
- Upon setting it turns into a durable material that can be drilled, filed down with a file or a hand saw, suitable for processing with ordinary tools • Resistant to water, oils and temperatures up to 120 °C depending on the application • Used for bonding metal, glass, rubber, wood, concrete, ceramics, etc. • Used to repair cars, furniture, toys, sports goods, tableware • Can be used for mounting hooks and pegs in a wall, tool handles etc. • Can be used to seal leaks in pipes, seal metals and tanks for fuel, water, oil, etc.

Code	Volume (ml)	Weight (g)	
42043	14	16	240

5 SYNTHETIC OŚMIORNICZKA GLUE

• СИНТЕТИЧЕСКИЙ КЛЕЙ • SYNTHETIKKLEBER OŚMIORNICZKA



-20°C
+70°C

- Adhesive for bonding: wood, stone, marble, ceramics, tiles, carpets, bricks, concrete, glass, cork, stonework, gypsum, metal and some plastics. • Once hardened the product is resistant to temperatures between -20 °C and 70 °C. • Not suitable for permanently submerged elements • Does not bond polyethylene and polypropylene • Suitable for indoor and outdoor use • Solvent-free
- Does not contain corrosive substances

Code	Weight (g)	
42044	50	72
42045	120	48

6 POXILINA GLUE

• КЛЕЙ ДВУХКОМПОНЕНТНЫЙ ПОКСИЛИНА • POXILINA KLEBER



- Used for sealing, filling, reconstruction, repair and bonding: metals, wood, concrete, glass, marble, etc. • Used as a plastic mass • Reaches a hardness of metal within 10 minutes • Poxilina is a product with extraordinary sealing properties
- Applied cold has a plastic consistency and after setting reaches the hardness of metal
- After 1 hour, it can be filed, drilled and machined with basic tools • Does not shrink and does not stretch, is a good electrical insulator, does not contain solvents • Does not lose its properties over time, offers very good resistance to temperature, is not negatively affected by cold, heat or water
- For sealing and repairing pipes, all types of sanitary equipment, fuel tanks, etc. • Do not use to repair gas pipes

Code	Weight (g)	
42047	70	240

1 CYJANOPAN GLUE

• КЛЕИ CYJANOPAN • CYANOPAN-KLEBER



- Cyjanopan is a single-component, no-thinner cyanoacrylic glue • Seam curing consists in a rapid polymerization caused by the moisture present on the glued components
- Cyanopan can be used for binding metals, rubber, glass, ceramics, wood and plastic (except for PE, PP, PTFE and silicones)

Code	Application for joint types	Weight (g)		
42001	flexible	2	x	50/1000
42002	rigid	2	x	50/1000

2 UNIVERSAL BUTAPREN GLUE

• КЛЕЙ BUTAPREN ДЛЯ КОЖЕВЕННОЙ ПРОМЫШЛЕННОСТИ И СТРОИТЕЛЬСТВА • KLEBER BUTAPREN



- Traditional Butapren glue • Application: for binding leather, rubber, plastic, cardboard and textiles • Delivered in tubes in a collective package

Code	Volume (ml)	
42017	40	100

3 GLUE FOR WOODS

• СТОЛЯРНЫЙ КЛЕЙ • HOLZLEIM



- Traditional WIKOL glue • Application: for gluing wood, wood-based materials, laminates • Delivered in tubes in a collective package

Code	Volume (ml)	
42014	40	100

4 METAL EPOXY GLUE

• ЭПОКСИДНЫЙ ДВУХКОМПОНЕНТНЫЙ КЛЕЙ ДЛЯ МЕТАЛЛА • EPOXY-KLEBER



100°C

- METAL EPOXY GLUE is a two-component epoxy glue curing in 5 minutes (A component - black, B component - grey) • Efficiently binds ceramic, glass, metal and certain plastic surfaces • When cured, resistant to water and most solvents • Offers good machining properties, resistance up to 100°C

Code	Weight (g)		
42020	2 x 20	x	12

5 GLUE FOR SHOES

• КЛЕЙ ПОЛИУРЕТАНОВЫЙ OBU • POLYURETHANKLEBER OBU



- OBU is a polyurethane glue for professional repair of shoes, and also for gluing leather, most rubber types, wood, certain plastic types, except for polyethylene, polypropylene, PTFE, silicon rubber etc. • The joints made with OBU are resistant to water, certain chemicals, oils and grease

Code	Volume (ml)		
42018	15	x	50

6 GLUE FOR SHOES

• КЛЕЙ ПОЛИУРЕТАНОВЫЙ OBU • POLYURETHANKLEBER OBU



- OBU is a polyurethane glue for professional repair of shoes, and also for gluing leather, most rubber types, wood, certain plastic types, except for polyethylene, polypropylene, PTFE, silicon rubber etc. • The joints made with OBU are resistant to water, certain chemicals, oils and grease

Code	Volume (ml)		
42019	60	x	24

7 HI-TEMP SILICONE GASKET

• СИЛИКОНОВЫЙ ГЕРМЕТИК RED SILICONE • SILIKONDICHTSTOFF



-60°C +300°C

- RED SILICONE is a silicone sealant for sealing engine components, e.g. oil sumps, bodies, valve covers, and also for protection and sealing • Temp. range -60 to 300°C, colour: red

Code	Weight (g)		
42040	85	x	12

1 METAL EPOXY MASTIC GLUE

• МЕТАЛЛИЧЕСКАЯ ЭПОКСИДНАЯ ГРУНТОВКА PLASTELIT
• KLEBER ZUM VERBINDEN VON METALL MIT GLAS, KERAMIK



260°C

- PLASTELIT is a quick-curing two-component epoxy mastic glue, for filling holes in metal, ceramic surfaces, and for gluing and sealing
- Binds metals, ceramics, glass and certain plastic types • Resistant to temp. up to 260°C • The joints, thanks to their high hardness, can be machined

Code	Weight (g)		
42051	50	x	20

2 RADIATOR SEALANT

• ГЕРМЕТИК ДЛЯ РАДИАТОРА SILVER SEAL
• DICHTSTOFF FÜR KÜHLUNGSANLAGEN



- SILVER SEAL – cooling system sealant
- Stops leaks from the radiator, engine block, cylinder head and at the drain plugs

Code	Weight (g)		
42050	20	x	12

3 SOLDERING IRONS

• ПАЯЛЬНИКИ • WIDERSTANDSLÖTMASCHINEN



- Voltage 230 V
- 60007 - with two power ranges

Code	Power [W]	
60001	18	1
60005	25	1
60002	40	1
60006	60	1
60007	60/30	1

4 SOLDERING IRONS

• ПАЯЛЬНИКИ • ATRAMINIAI LITUOKLIAI



- Voltage 230 V
- Soldering guns with two power ranges

Code	Power [W]	
60008	200/100	1
60009	300/150	1
60011	400/200	1

5 SOLDERING GUN

• ТРАНСФОРМАТОРНЫЕ ПАЯЛЬНИКИ • TRANSFORMATORLÖTMASCHINEN



- Voltage 230V • Soldering guns with a bulb lighting the work site • The set includes 3 bits • Delivered in cardboard box
- Type A – all-purpose soldering gun for repairs and DIY household works
- Type B – soldering gun for binding conductors and components with large profiles, useful especially for wiring works
- Type C – all-purpose soldering gun with two power values, designed for service and installation works in the electrical engineering and electronic field, recommended for professionals
- Type 4 – new generation soldering gun, with aesthetic and durable casing, with a durable bit made from special alloy (compatible also with copper bits without the need to change work parameters). Recommended especially for service works thanks to its small size and weight, and large range of applications

Code	Type	Power [W]	
60103	4A	40/65	1
60104	6A	75	1
60105	6B	100	1
60102	6C	55/75	1
60101	4	65	1



1 THERMAL KNIFE
• НОЖ ТЕРМИЧЕСКИЙ • THERMOMESSER



- Voltage 230V 50Hz • Max. blade temp. 250/320°C • Class I device • Blade length 230mm • The device for cutting styrofoam panels 1-18 cm thick when installing thermal insulation on buildings and during other works where styrofoam panels are used
- Its advantage is its light weight when compared with low-voltage transformer knives

Code	Power (W)	Weight (kg)	
60012	90/180	0.5	1

2 PVC PIPE WELDING MACHINE
• РУЧНЫЕ АППАРАТЫ ДЛЯ СВАРКИ ПЛАСТИКОВЫХ ТРУБ И ФИТИНГОВ • ПЛАСТИКОВЫХ ТРУБ И ФИТИНГОВ



- Voltage 230 V • Machine for welding pipes, thermoplastic profiles in water and central heating systems • Temperature control range 50 - 300°C • The set includes 2 bolts for mounting heating stones, stand
- Delivered in cardboard box • Delivered without heating tips

Code	Power (W)	Weight (kg)	
60015	350/700	1.2	1
60016	750/1300	1.5	1

3 HEATING TIPS
• СВАРОЧНЫЕ НАСАДКИ • HEIZSPITZEN



- For welding unit 60015 and 60016
- Covered with high-grade industrial PTFE resistant to abrasion • Sold in a set: male with female

Code	Diameter (mm)	
60020	16	1
60021	20	1
60022	25	1
60023	32	1
60024	40	1
60025	50	1
60026	63	1
60027	75	1
60028	90	1

4 MOUNTING SET FOR STONE HEATERS
• МОНТАЖНЫЙ БОЛТ ДЛЯ СВАРОЧНЫХ НАСАДОК
• SCHRAUBE MIT BUCHSE ZUR BEFESTIGUNG VON HEIZSPITZEN AN STUMPFSCHWEISSMASCHINEN



- For welding units 60015 and 60016

Code	
60018	1

5 FLUX
• КАНИФОЛЬ • KOLOPHONIUM



- Melting temp. 80-110°C
- In a metal box

Code	Weight [g]	
60412	45	50

6 AMASAN SOLDERING FLUIDS
• ФЛЮСЫ ДЛЯ ПАЙКИ • LÖTFLÜSSIGKEIT



- High-activity ZWS soldering fluid is designed for brazing of highly oxidized steel sheets and rectified zinc • Used for soldering gutters, roof coverings made from galvanised steel sheets etc. • ZWS fluid solves oxides, without leaving stains and damaging zinc which retains its resistance to corrosion
- Has a certificate of the National Institute of Hygiene

Code	Weight [g]	
60421	250	12
60422	1000	12

7 AMASAN SOLDERING GREASE
• ФЛЮС ДЛЯ ПАЙКИ • LÖTFETT



- The soldering grease (flux) is designed for brazing copper, brass, galvanised steel sheets and steel sheet whitening

Code	Weight [g]	
60432	50	200

8 SAL AMMONIAC TINNING BLOCK
• ФЛЮС ПРЕСОВАННЫЙ • GEPRESSTES SALMIAK



- Designed for removing oxides from soldering gun bits • For this purpose, press a hot bit to ammonium chloride, thanks to which melting ammonium chloride will clean the bit event if it is very dirty and overheated • Cold ammonium chloride becomes solid again

Code	Size [mm]	
60442	65 x 45 x 40	100

1 UNIVERSAL GREASE

• СМАЗКА УНИВЕРСАЛЬНАЯ • UNIVERSALSCHMIERMITTEL



-25°C ÷ +125°C

- For greasing rolling bearings, slide bearings, joints and guides working under heavy loads
- Resistant to cold water washing • Plastic syringe-type dispenser

Code	Volume (ml)	
42239	70	12

2 MACHINERY VASELINE

• ТЕХНИЧЕСКИЙ ВАЗЕЛИН • TETECHNISCHE VASELINE



0°C ÷ +30°C

- Designed for lubricating low-load friction nodes, greasing rubber and leather gaskets, protecting metal parts from corrosion, and as an agent protecting from rubber gasket adhesion and freezing • Plastic syringe-type dispenser

Code	Volume (ml)	
42235	70	12

3 SEMI-LIQUID GREASE

• МАШИННАЯ СМАЗКА • MAMASCHINENFETT



-30°C ÷ +130°C

- Designed for lubricating rolling bearings and slide bearings, joints and guides • Can be used for heavy loads • Resistant to cold water washing • Provides protection against corrosion • Plastic syringe-type dispenser

Code	Volume (ml)	
42236	70	12

4 LUBRICATING OIL

• МАШИННОЕ МАСЛО • MAMASCHINENÖL



0°C ÷ +60°C

- Designed for low-load parts of industrial machines - bearings, guides, mechanical gears, spindles and auxiliary friction nodes, as well as locks, hinges, household appliances
- Plastic syringe-type dispenser

Code	Volume (ml)	
42237	70	12

5 GRAPHITE GREASE

• ГРАФИТОВАЯ СМАЗКА • GRAPHITFETT



-20°C ÷ +50°C

- Designed for greasing shock absorber blades, threads, bolts and open gears and worm gears, chains and other highly loaded friction nodes • Resistant to cold water washing
- Plastic syringe-type dispenser

Code	Volume (ml)	
42238	70	12

6 SILICON OIL

• МАСЛО СИЛИКОНОВОЕ • SISILIKONÖL



0°C ÷ +55°C

- Designed for greasing light-load parts
- Plastic syringe-type dispenser

Code	Volume (ml)	
42241	70	12

7 COPPER GREASE

• СМАЗКА МЕДНАЯ • KUKUPFERFETT



-20°C ÷ +100°C

- Designed for threaded connections to prevent seizing, bake-on and jamming
- Prevents corrosion • Ensures perfect lubrication, prevents abrasive wear • Seals against impurities • Plastic syringe-type dispenser

Code	Volume (ml)	
42242	70	12

8 SYNTHETIC GREASE

• СИНТЕТИЧЕСКАЯ СМАЗКА • UNIVERSALSCHMIERMITTEL



-20°C ÷ +200°C

- Designed for greasing highly loaded, fastrotating rolling bearing and slide bearings, and other mechanisms • Not soluble in water • Plastic syringe-type dispenser

Code	Volume (ml)	
42243	70	12

9 SOLID WIRE SOLDER

• ТРУБЧАТЫЕ ПРИПОИ С ФЛЮСОМ • LOT



- Melting temp. 183-190°C
- LC 60 solder in reels of 100 g
- With flux SW26

Code	Diameter (mm)		
60310	0.56		30
60311	0.7		30
60312	1.0		30
60313	1.5		30
60314	2.0		30
60315	2.5		30
60316	3.0		30

1 SOLID WIRE SOLDER

• ТРУБЧАТЫЕ ПРИПОИ С ФЛЮСОМ В ТУБЕ
• LOT

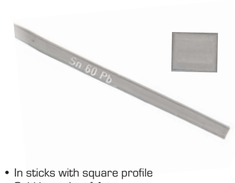


- Melting temp. 183-190°C
- LC 60 solder in vials – 3 m long
- With flux SW26
- Sold in packs of 1 pc

Code	Diameter (mm)		
60319	1.0		25/600

2 SOLID BAR SOLDER

• ПРИПОЙ В ПРУТКАХ • LOT



- In sticks with square profile
- Sold in packs of 1 pc

Code	Size (mm)	
60351	7 x 7 x 350	176

3 GAS LIGHTER - PIEZO IGNITION

• ЗАЖИГАЛКА ПЬЕЗОЭЛЕКТРИЧЕСКАЯ
• ZÜNDER MAX GH19 GERADE, PIEZO-ZÜNDUNG



- Lighter with liquefied gas with piezoelectric ignition • Type MAX GH17

Code	Length (mm)	
42313	227	16/192

4 GAS LIGHTER - PIEZO IGNITION

• ЗАЖИГАЛКА ПЬЕЗОЭЛЕКТРИЧЕСКАЯ, СКЛАДНАЯ
• ZÜNDER MAX GH19 KLAPPBAR, PIEZO-ZÜNDUNG



- Lighter with liquefied gas with piezoelectric ignition • The gas can be supplied with 42308

Code	Length (mm)	
42311	188	16/384

5 REFLECTIVE WHITE-RED ROAD BOLLARDS

• ДОРОЖНЫЕ КОНУСЫ БЕЛО- КРАСНЫЕ СВЕТООТРАЖАЮЩИЕ
• REFLEKTIER ENDE VERKEHRSKEGEL WEISS-ROT



- Reflective plastic cones with red-paint stripes
- Store only in vertical position

Code	Height (cm)	
35581	40	1
35583	50	1

6 REFLECTIVE FLOURESCENT WHITE-RED ROAD BOLLARDS

• ДОРОЖНЫЕ КОНУСЫ БЕЛО-КРАСНЫЕ СВЕТООТРАЖАЮЩИЕ ФЛУОРЕСЦЕНТНЫЕ • REFLEKTIERENDE VERKEHRSKEGEL WEISS--ORANGE FLUORESZIEREND



- The cones made from fluorescent orange plastic, with white reflective strips • Store only in vertical position

Code	Height (cm)	
35586	40	1
35587	50	1

7 TOOL BOXES

• ПЛАСТМАССОВЫЕ ЯЩИКИ ДЛЯ ИНСТРУМЕНТА
• WERKZEUGKÄSTEN



- Plastic with removable tray

Code	Size (mm)	
35512	300 (12")	300
35516	400 (16")	120
35519	500 (20")	56

8 STORAGE BOX

• ОРГАНАЙЗЕР • PLASTIKBOX



- Possibility to change divider configuration
- Highly versatile application

Code	Size (mm)	Quantity of dividers	
35527	460 x 325 x 80	16	125

9 STORAGE BOXES

• ПЛАСТИКОВЫЕ КОРОБКИ - ОРГАНАЙЗЕРЫ • PLASTIKBOX



- Ideal for storage of small parts
- Transparent cover on hinges

Code	Size (mm)	Quantity of dividers	
35522	200 x 145 x 35	7	1920
35523	300 x 220 x 55	10	455
35524	345 x 245 x 60	11	270

1 BIN BOXES
• СКЛАДСКИЕ КОНТЕЙНЕРЫ • LAGERBEHÄLTER



• Plastic • Possibility to create storied modules and hang on a strip 35529

Code	Size (mm)	Colour	
35530C	111 x 165 x 75	red	1500
35530Z	111 x 165 x 75	green	1500
35530N	111 x 165 x 75	blue	1500
35531C	155 x 240 x 125	red	408
35531Z	155 x 240 x 125	green	408
35531N	155 x 240 x 125	blue	408
35532C	221 x 350 x 165	red	156
35532Z	221 x 350 x 165	green	156
35532N	221 x 350 x 165	blue	156

2 PANEL FOR BIN BOXES
• НАСТЕННАЯ РЕЙКА ДЛЯ ЗАВЕШЕНИЯ СКЛАДСКИХ КОНТЕЙНЕРОВ • HÄNGELEISTE FÜR LAGERBEHÄLTER



• For hanging and fixing bin boxes in a row

Code	Size (mm)	
35529	495 x 40	100



3 DRAWER STORAGE CABINETS
• ПЛАСТИКОВЫЕ ШКАФЧИКИ С ВЫДВИЖНЫМИ ЯЩИКАМИ • SCHUBLADENSCHRÄNKE



• Plastic body and drawers • Modular structure enabling to connect different cabinets • 35801 – colourful plastic drawers • 35802 – transparent drawers enabling to install additional dividers (sold separately)

Code	Size (mm)	Quantity of drawers	
35801	213 x 304 x 125	10	8
35802	213 x 304 x 125	10	8

4 DRAWER STORAGE CABINETS
• ПЛАСТИКОВЫЕ ШКАФЧИКИ С ВЫДВИЖНЫМИ ЯЩИКАМИ • SCHUBLADENSCHRÄNKE



• Plastic • Modular structure enabling to connect different cabinets • Sold empty

Code	Size (mm)	Quantity of drawers	
35320	220 x 160 x 70	16	16
35221	320 x 220 x 70	32	8

5 DRAWER STORAGE CABINETS
• МЕТАЛЛИЧЕСКИЕ ШКАФЧИКИ С ВЫДВИЖНЫМИ ЯЩИКАМИ • SCHUBLADENSCHRÄNKE



• Metal casing • Plastic drawers
• Modular structure enabling to connect different cabinets

Code	Size (mm)	Quantity of drawers	
35830	300 x 280 x 145	30 (5 x 6)	12
35860	300 x 550 x 145	60 (5 x 12)	1

6 DRAWER STORAGE CABINET
• ПЛАСТИКОВЫЕ ШКАФЧИКИ С ВЫДВИЖНЫМИ ЯЩИКАМИ • PLASTIKSCHRÄNKE MIT SCHUBLADEN



• External diameters: 230 x 125 x 140 mm
• Modular structure, can be connected in any way • Sold empty

Code	Quantity of drawers	
35803	2	10
35804	4	10
35805	6	10
35806	12	10

7 TOOL CASE
• ПЛАСТИКОВЫЙ КЕЙС ДЛЯ ЭЛЕКТРОИНСТРУМЕНТОВ • KOFFER FÜR ELEKTROGERÄTE



• Plastic

Code	Size (mm)	
35513	300 x 400 x 120	112

1 TOOL TRAY
• ПЛАСТИКОВЫЙ КОНТЕЙНЕР С ОТКРЫТОЙ РУЧКОЙ
• OFFENER BEHÄLTER MIT GRIFF



• Plastic

Code	Size (mm)	
35707	400 x 300 x 180	175

2 2 IN 1 ORGANISERS SET
• НАБОР ОРГАНИЗАТОРОВ 2 В 1 • PLASTIKBOX SET



• Set of two transparent organisers with an orange handle • Made of high quality materials • Trays for small parts inside
• Strong closing • For storage of small as well as bigger parts • Handle for easy carring

Code	Dimensions (mm)	
35711	235 x 190 x160	18

3 ORGANISERS
• ОРГАНАЙЗЕРЫ • ORGANIZER



35720
35721
35733
35734

• Made of high quality materials • dividers inside • Strong closing • Ideal for workshop and at home • For storage of small as well as bigger parts • Handle for easy carring

Code	Dimensions (mm)	Quantity of dividers	
35720	245 x 150 x 85	5	38
35721	295 x 195 x 85	5	24
35733	359 x 238 x 85	6	16
35734	400 x 298 x 85	6	12

4 ORGANISER
• ОРГАНАЙЗЕР • PLASTIKBOX



• Made of high quality materials • dividers inside • strong closing • Ideal for workshop and at home • For storage of small as well as bigger parts.

Code	Dimensions (mm)	Quantity of dividers	
35732	198 x 117 x 45	5	45

5 COLORFUL STORAGE BOXES SET
• ОРГАНИЗАТОРЫ НАБОР • PLASTIKBOX SET



• Set of organizers in three colours - green, violet, transparent • Made of high quality materials • dividers inside For storage of small parts

Code	Dimensions (mm)	
35780	1 x 280/175/42 mm; 2 x 184/130/38 mm	16

6 GARDEN RAKE
• ГРАБЛИ МЕТАЛИЧЕСКИЕ
• METALLHARKE



• Coated metal rake • Ergonomic, bent, metal handle • Plastic holder

Code	Tooth number	Length [mm]	Width [mm]	
12278	16	1500	410	5

7 GARDEN RAKES
• ГРАБЛИ • GRIEBLYS



• Coated metal head
• Handle socket riveted to the head

Code	Tooth number	Handle length [cm]	
12276	14	110	5
12385	12	130	5
12386	14	130	5
12387	16	130	5
12389	18	130	5

8 PLASTIK GARDEN RAKE WITH WOODEN HANDLE
• ГРАБЛИ ПЛАСТМАСС ОВЫЕ
• PLPLASTIKHARKE



• Beechwood handle • Handle length 130 cm
• Handle dia. 28mm • Rake made from plastic
• No. of teeth - 20

Code	Width [mm]	
12263	460	5

9 PLASTIK GARDEN RAKE WITH WOODEN HANDLE
• ГРАБЛИ ПЛАСТМАССОВЫЕ С ЧЕРЕНКОМ
• PLPLASTIKHARKE MIT STIEL



• Beechwood handle • Handle length 120cm
• Handle dia. 22mm • Rake made from plastic
• No. of teeth - 23

Code	Width [mm]	
12264	420	5

10 PLASTIC GARDEN RAKE WITHOUT STEM
• ГРАБЛИ ПЛАСТМАССОВЫЕ
• PLASTIKHARKE OHNE STIEL



• Handles:
12945, 12922, 12923, 12924

Code	Tooth number	Width (mm)	
12252	20	460	20

1 PLASTIC GARDEN RAKE WITHOUT STEM

• ГРАБЛИ ПЛАСТМАССОВЫЕ • PLASTIKHARKE OHNE STIEL



- Tooth length 80 mm
- Handles: 12945, 12922, 12923, 12924

Code	Tooth number	Width (mm)	
12251	18	600	20

2 PLASTIC GARDEN RAKE WITHOUT STEM

• ГРАБЛИ ПЛАСТМАССОВЫЕ • PLASTIKHARKE OHNE STIEL



- Handles: 12941, 12942, 12943

Code	Tooth number	Width (mm)	
12253	23	420	25

3 PLASTIC GARDEN RAKE WITHOUT STEM

• ГРАБЛИ ПЛАСТМАССОВЫЕ • PLASTIKHARKE OHNE STIEL

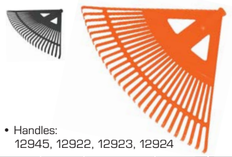


- Handles: 12945, 12922, 12923, 12924

Code	Tooth number	Width (mm)	Head colour	
12258	24	610	Colouro-we	20
12259	24	610	czarne	20

4 PLASTIC GARDEN RAKE WITHOUT STEM

• ГРАБЛИ ПЛАСТМАССОВЫЕ • PLASTIKHARKE OHNE STIEL



- Handles: 12945, 12922, 12923, 12924

Code	Tooth number	Width (mm)	Head colour	
12254	27	430	Colouro-we	20
12255	27	430	czarne	20
12256	27	580	Colouro-we	20
12257	27	580	czarne	20

5 PLASTIC GARDEN RAKE WITHOUT STEM

• ГРАБЛИ ПЛАСТМАССОВЫЕ • PLASTIKHARKE OHNE STIEL



- Tooth length 80 mm
- Handles: 12945, 12922, 12923, 12924

Code	Tooth number	Width (mm)	
12250	16	550	20

6 REINFORCED RAKE WITHOUT STEM

• ГРАБЛИ УСИЛЕННЫЕ • VERSTÄRKTE HARKE OHNE STIEL



- Metal rake without handle
- Handles: 12945, 12922, 12923, 12924

Code	Width (mm)	Height (mm)	Tooth number	
12383	360	80	14	10
12384	410	80	16	10

7 WIRE RAKE WITHOUT STEM

• ГРАБЛИ ПРОВОЛОЧНЫЕ • DRAHTHARKE OHNE STIEL



- Metal rake without handle
- Handles: 12945, 12922, 12923, 12924

Code	Width (mm)	Height (mm)	Tooth number	
12382	405	170	20	5

8 PLASTIC WATERING CANS

• ПЛАСТИКОВЫЕ ЛЕЙКИ • GIESSKANNEN AUS KUNSTSTOFF



Code	Volume (l)	Colour	
35111	5		1
35112	5		1
35121	10		1
35122	10		1

9 VEGETABLE SHOVEL WITH WOOD STEM

• СОВОК ДЛЯ ОВОЩЕЙ • GEMÜSESCHAUFEL



- Wooden handle

Code	Width (mm)	Length (mm)	
12279	150	350	5

10 COMPOST FORK WITH WOOD STEM

• ВИЛЫ ДЛЯ КОМПОСТА
• HEUGABEL ZUM GRABEN



- Wooden handle with T holder, 100 cm long

Code	Width (mm)	Height of head	
12281	200	255	5

1 COMPOST FORK
• ВИЛЫ ДЛЯ КОПАНИЯ • HEUGABEL ZUM GRABEN



- Wooden handle with T holder 90 cm long
- The handle fixed to the head bushing with a single rivet

Code	Width (mm)	Height of head	
12289	195	280	5

2 PITCHFORK
• ВИЛЫ САДОВЫЕ • HEUGABEL



- Straight wooden handle, 100 cm long

Code	Width (mm)	Height of head	Tooth number	
12283	230	330	3	5
12284	230	305	4	5

3 POTATOE FORK
• ВИЛЫ ДЛЯ КОПАНИЯ КАРТОФЕЛЯ
• KARTOFFELHEUGABEL



- Wooden handle with T holder, 100 cm long
- Teeth with balls to protect the material moved from damage

Code	Width (mm)	Height of head	
12286	240	340	5

4 RUBBLE FORK WITH WOOD STEM
• ВИЛЫ ДЛЯ КАМНЕЙ • STEINHEUGABEL



- Wooden handle with T holder, 100 cm long
- Teeth with balls to facilitate material landing

Code	Width (mm)	Height of head	
12288	275	370	5

5 HOE
• МОТЫГА • HACKE



- Wooden handle, 110 cm long

Code	Width (mm)	
12291	160	5

6 SIMPLE HOE WITH FORK
• МОТЫГА С ГРАБЛЯМИ • GERADE HACKE MIT ZINKEN



- Wooden handle, 110 cm long

Code	Width (mm)	Height of head	
12295	50	190	5

7 CORDIAL HOE WITH FORK
• МОТЫГА С ГРАБЛЯМИ
• HACKE HERZFÖRMIG MIT ZINKEN



- Wooden handle, 110 cm long

Code	Width (mm)	Height of head	
12296	50	190	5

8 AUGERS
• БУРЫ • FÖRDERSCHNECKEN



- For drilling holes in soil
- Ergonomic plastic handles

Code	Head diameter [mm]	Colour	
40127	90	green	1
40123	170	black	1
40125	250	black	1
40124	170	random	1
40126	250	random	1

9 SPIKES FOR LAWN ROLLER
• ШИПЫ ДЛЯ КАТКА ДЛЯ УКАТЫВАНИЯ ГАЗОНА
• STACHELN FÜR RASENWALZE



- Metal, random colour • To be installed on rollers 40115 or 40118 • When installed on the roller, for soil fertilising, lawn aerating

Code	Diameter [mm]	Length of spikes [mm]	
40119	280	80	5

1 LAWN ROLLERS

• КАТКИ ДЛЯ УКАТЫВАНИЯ ГАЗОНА • RASENWALZEN



- Metal, random colour • For levelling the ground, soil • Can be loaded with water
- Rubber plug • Possibility to install spikes 40119 sold separately • Delivered for self-assembly

Code	Head diameter (mm)	Width (mm)	
40115	280	500	1
40118	280	800	1

2 COALCAN

• КОВШИ ДЛЯ УГЛЯ И ЗОЛЫ • KOHLEBEHÄLTER



- Designed for: manual handling of coal, coke, wood and other solid fuel, as well as cold cinder and other waste left by burning in stoves, fireplaces, coal ovens and grills, where solid fuels are used • Made from profiled and coated steel sheet

Code	Width x length x height (mm)	
12796	210 x 395 x 190	3
12798	220 x 450 x 230	3

3 SMALL DUSTPAN

• СОВОК МАЛЫЙ • SCHAUFEL KLEIN



- Designed for: stoves, fireplaces, coal-fired ovens or grills where solid fuel is used, when adding or removing fuel, cinder or leftovers
- Can be used also for litter, dust and other small solid waste • Wooden handle 22 mm long, dia. 300 mm • Made from profiled and coated steel sheet

Code	Width (mm)	
12791	100	10

4 DUSTPANS

• СОВКИ СРЕДНИЕ • SCHAUFELN



- Designed for: stoves, fireplaces, coal-fired ovens or grills where solid fuel is used, when adding or removing fuel, cinder or leftovers
- Can be used also for litter, dust and other small solid waste • Wooden handle dia. 22 mm and 300 mm long • Made from profiled and coated steel sheet

Code	Width (mm)	
12792	147	10
12793	175	5

5 POKERS

• КОЧЕРГИ • FEUERHAKEN



- Designed for stoves, fireplaces, coal-fired ovens or grills where solid fuels are used
- Made from profiled, coated rod with a wooden handle

Code	Length (mm)	
12745	500	5
12748	800	5

6 WIRES FOR CHIMNEY BRUSH

• РУЧКИ ДЛЯ ЕРШЕЙ • REINIGUNGSSTÄBE



- Designed for: after installing a flue brush, for cleaning boilers, but also fireplaces, coal-fired ovens or grills where solid fuels are used
- Made from steel wire dia. 7mm, with inner thread M12 on the one end, and a wooden handle on the other

Code	Length (mm)	
12766	600	5
12768	800	5
12770	1000	5

7 CHIMNEY WIRES

• СТАЛЬНЫЕ ТРОСЫ • SCHORNSTEINFEGERDRAHT



- Designed to be a component of chimneysweep sets for unblocking or cleaning of flues • Wire dia. 3.5mm with inner M12 thread

Code	Length (mm)	
12786	6.0	5
12787	8.0	5
12788	10.0	5
12789	12.0	5

8 CHIMNEY BALLS

• ГИРИ ДЛЯ ЧИСТКИ ДЫМОХОДОВ • SCHORNSTEINFEGERKUGEL



- Designed for cleaning flues and loading chimneysweep sets with brushes • The balls have an ear for connecting with a chimneysweep wire or brush • Weight tollerance +\- 10%

Code	Weight (kg)	
12781	0,75	1
12783	1,50	1
12785	3,00	1

9 BRUSHES FOR CENTRAL HEATING

• ЩЕТКИ - ЁРШИ ДЛЯ ТЕПЛООБМЕННИКА
• REINIGUNGSBÜRSTEN FÜR HEIZUNGSANLAGEN



- Designed for: after installing a chimneysweep set, for cleaning boilers, but also fireplaces, coal-fired ovens or grills where solid fuels are used • Made from resilient steel wire dia. 0.35mm, the core made from two twisted wires dia. 3.5mm, with M12 thread on one end, which can be attached a rod or wire for flue brushes

Code	Diameter (mm)	
12753	30	50
12754	40	50
12755	50	50
12756	60	35
12757	70	35
12758	80	30
12759	90	20
12760	100	20

10 CHIMNEY BRUSH

• ЩЕТКИ - ЁРШИ ДЛЯ ЧИСТКИ ДЫМОХОДОВ • REINIGUNGSBÜRSTEN FÜR KAMINE

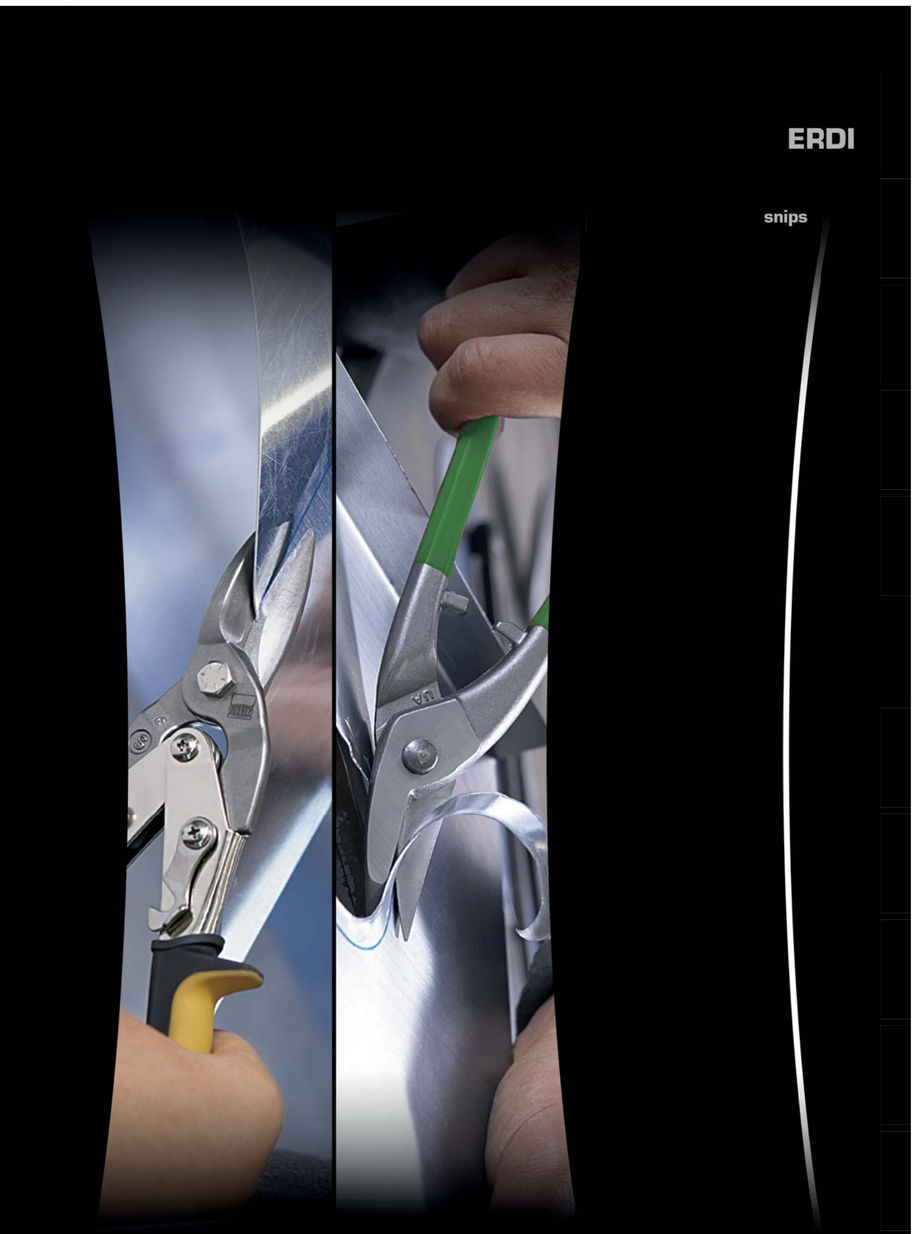


- Designed especially for flue cleaning • Made from resilient steel wire dia. 0.50mm, the core made from two twisted wires dia. 3.5mm, on the one end with M12 thread which can be attached a rod or wire for the flue brush, on the other with an ear, opening dia. 7mm, where you can attach e.g. a chimneysweep ball, using an appropriate fixing component

Code	Diameter (mm)	
12772	120	60
12775	150	50
12777	175	30
12778	200	30

ERDI

snips



1 STRAIGHT SNIPS

• НОЖНИЦЫ ПО МЕТАЛЛУ • FORMSCHERE



• For short straight and shaped cuts with high angle rightwards and leftwards • Blades with micro-teeth preventing slipping • Straight

Code	Size (mm)	Type	
17366	240	straight	10

2 AVATION SNIPS

• НОЖНИЦЫ ПО МЕТАЛЛУ ШАРНИРНЫЕ
• GELENKSCHERE



• For short and shaped cuts • Jointed structure makes work easier
• One blade with small teeth, preventing the cut material from slipping
• Ergonomic PVC holders • For cutting steel sheet 1.8 mm thick, stainless steel 1.2 mm

Code	Size (mm)	Type	
17364	240	right/ straight	5
17365	240	left/ straight	5

3 BERLIN TYPE SNIPS

• ЛИСТОВЫЕ НОЖНИЦЫ ПО ЖЕСТИ (БЕРЛИНСКИЙ ТИП)
• BERLINER-SCHERE



• For long, straight cuts • Right

Code	Size (mm)	Type	
17325	250	straight	5

4 PUNCH SNIPS

• НОЖНИЦЫ ПО МЕТАЛЛУ ДЛЯ ОТВЕРСТИЙ
• SCHERE FÜR ÖFFNUNGEN



• For short and shaped cuts

Code	Size (mm)	Type	
17335	250	right	5
17337	275	right	5
17336	250	left	5
17338	275	left	5

5 STRAIGHT AND SHAPED CUTTING SNIPS

• НОЖНИЦЫ ПО МЕТАЛЛУ „ИДЕАЛ"
• SCHERE „IDEAL"



• Straight and shaped cutting snips

Code	Size (mm)	Type	
17348	280	right	5
17349	280	left	5

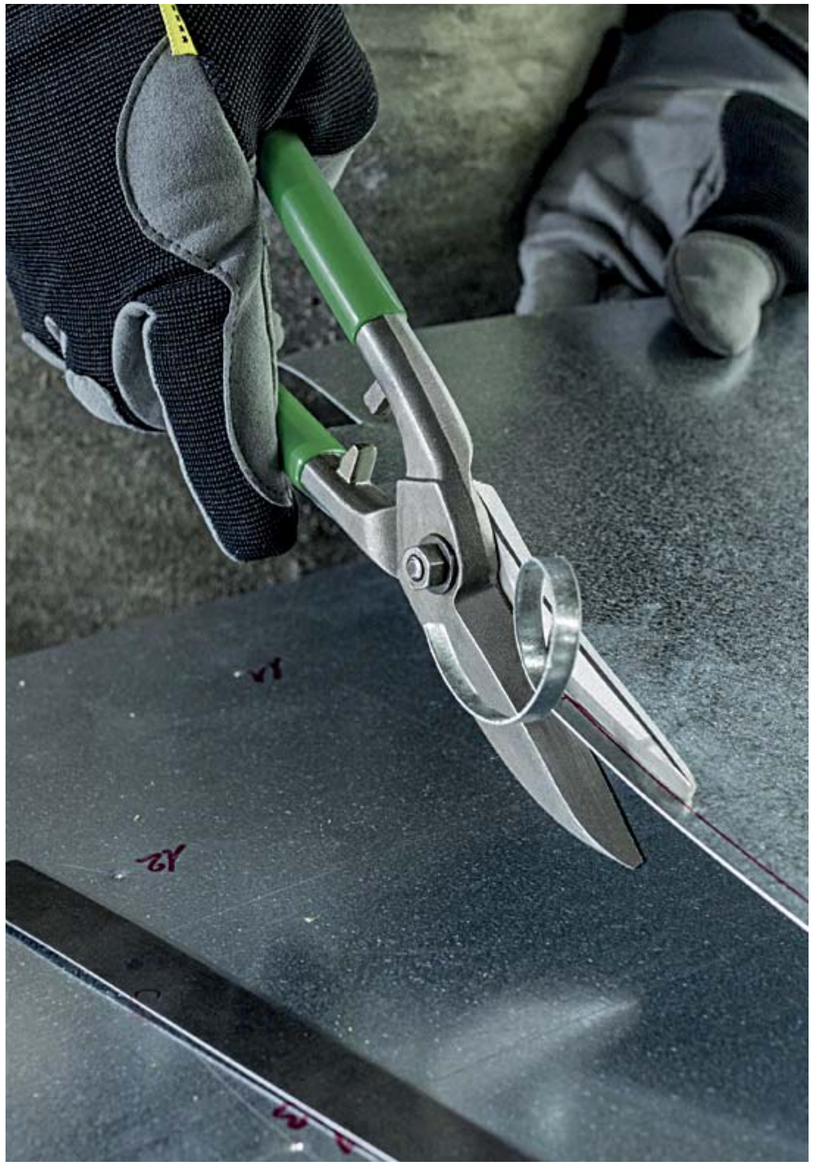
6 PELICAN SNIPS

• НОЖНИЦЫ ПО МЕТАЛЛУ „ПЕЛИКАН" • SCHERE „PELIKAN"



• Recommended especially for long, straight cuts

Code	Size (mm)	Type	
17350	300	right	5
17351	300	left	5




KLINGSPOR
abrasive belts
abrasive discs
cutting discs
diamond discs
flap discs
grinding discs
sanding sheets
DT 600 U
Kronenflex
A 24 Extra
Kronenflex
A 24 N Supra
INOX

1 SEGMENTED DIAMOND DISCS

• АЛМАЗНЫЕ ДИСКИ СЕГМЕНТНЫЕ
• DIAMANT-SEGMENTSCHEIBEN



- DT600U • Hole 22.2mm • All-purpose
- High performance • Durable thanks to high-quality materials and diamond
- Smooth edges

Code	Diameter (mm)	Qty of teeth	Thickness x Height (mm)	
KL322631	125	15	2.4 x 9.0	1
KL322634	230	30	2.6 x 9.0	1

2 SEGMENTED DIAMOND DISC

• АЛМАЗНЫЕ ДИСКИ СЕГМЕНТНЫЕ
• DIAMANT-SEGMENTSCHEIBEN



- DT300U • Hole 22.2mm • Universal product for all multi-purpose building materials • Good performance • Cost effective

Code	Diameter (mm)	Qty of teeth	Thickness x Height (mm)	
KL325346	125	8	1.6 x 7.0	1
KL325348	230	16	2.3 x 7.0	1

4 TURBO DIAMOND DISCS

• ДИСКИ АЛМАЗНЫЕ TURBO • URBO DIAMANTSCHEIBEN



- DT 300 UT EXTRA • Hole 22.2 mm
- Universal purpose • Good performance
- Cost effective • Turbo cut for smooth edges without breaks

Code	Diameter (mm)	Thickness x Height (mm)	Max. number of turns [1/min.]	
KL325354	125	1.9 x 7.0	12200	1
KL325356	230	2.5 x 7.0	6600	1



3 CONTINOUS DIAMOND DISC

• АЛМАЗНЫЙ ДИСК ПОЛНЫЙ
• DURCHGEHENDE DIAMANTSCHEIBE



- DT 300 F EXTRA • Hole 22.2 mm
- Smooth edges when cutting ceramic tiles
- High-quality disc, cost effective

Code	Diameter (mm)	Thickness x Height (mm)	Max. number of turns [1/min.]	
KL325358	125	1.6 x 7.0	12200	1

5 GRINDING DIAMOND DISC

• АЛМАЗНЫЕ ДИСКИ ДЛЯ ШЛИФОВКИ
• DIAMANTSCHLEIFSCHEIBE



- DS 300 B EXTRA • Hole 22.2 mm
- Two-row cup grinding disc • Highly aggressive at low pressure • Excellent cost to quality rate • Max. number of turns [1/min]

Code	Diameter (mm)	Qty of teeth	Thickness x Height (mm)	
KL325362	125	20	7.0 x 5.5	1

1 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR METALLE

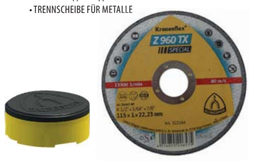


- CONVEX DISCS
- Type A 980 TZ Disc only 0.8 mm thick cuts even hard materials, e.g. stainless steel sheets, ensuring precise, clean cuts, with hardly any fin, requiring only minimum extra machining • The disc can be used for quick and safe machining of extremely hard or plastic materials • The disc generates less heat than thicker discs • For cutting stainless steel, steel, non-ferrous metals
- Delivered by several collective packagings

Code	Size (mm)	Hole (mm)	
KL322182	115 x 0.8	22.2	25
KL322183	125 x 0.8	22.2	25

2 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR METALLE



- FLAT DISCS
- Type Z 960 TX is a perfect disc for cutting hard and plastic materials, e.g. titanium or high-alloy steels • Dedicated blend of grain with zirconium oxide guarantees continuous disc sharpening when cutting • For cutting stainless steel, alloy steel, carbon steel, titanium • Delivered by several collective packagings

Code	Size (mm)	Hole (mm)	
KL322184	115 x 1.0	22.2	25
KL322185	125 x 1.0	22.2	25

3 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR METALLE



- FLAT DISCS
- 960 TZ is the most all-purpose thin disc by Klingspor among all high-performance discs
- Optimised binder system ensures improved lifetime • For cutting high-grade stainless steel and steel • Delivered by several collective packagings

Code	Size (mm)	Hole (mm)	
KL322180	115 x 1.0	22.2	25
KL322181	125 x 1.0	22.2	25

4 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR METALLE



- FLAT DISCS
- A24 R SUPRA – high-performance discs for steel cutting
- Possible replacements: 45432A - KL13287
  45437A - KL13456
  45439A - KL13464

Code	Size (mm)	Hole (mm)	
45432A	115 x 2.5	22.2	25
KL13295	125 x 2.5	22.2	25
45437A	180 x 3.0	22.2	25
45439A	230 x 3.0	22.2	25
45509A	300 x 3.0	22.2	10
45087A	350 x 3.5	25.4	10
KL13536	350 x 3.5	32	10
45274A	400 x 4.5	32	10

5 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR METALLE



- A24 EXTRA – all-purpose discs to be used in any metal machining sector
- Possible replacement: 45447A - KL13490

Code	Size (mm)	Hole (mm)	
45447A	180 x 3.0	22.2	25
45449A	230 x 3.0	22.2	25

6 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR METALLE



- FLAT DISCS
- Type A60 EXTRA – all-purpose discs for metal cutting

Code	Size (mm)	Hole (mm)	
45466A	125 x 1.0	22.2	25
45467A	115 x 1.0	22.2	25

7 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR METALLE



- Type A 60 TZ SPECIAL
- FLAT DISCS
- Thin, high-performance steel cutting discs
- Highly durable, produce minimum waste and save energy • Application - for cutting stainless and acid-resistant steel, for sheet metal work, for cutting thin metal sheets, thin-walled profiles and stainless steel, acid-proof pipes, non-ferrous metals, for cross-cutting metal bars and wires, as well as combined materials

Code	Size (mm)	Hole (mm)	
KL202400	115 x 1.0	22.2	25
KL202401	125 x 1.0	22.2	25

8 CUTTING DISCS FOR METAL

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
• TRENNSCHEIBE FÜR STAHL, SPEZIAL



- Type A 46 TZ SPECIAL
- FLAT DISCS
- Thin, high-performance discs for steel cutting • Are highly durable, ensure minimum waste and energy savings
  • Designed for - cutting stainless and acidproof steel, for tinsworks, for cutting thin metal sheets, thin-walled sections and pipes made from stainless and acid-proof steel, non-ferrous metals, for cutting crosswise metal bars and wires, as well as combination materials

Code	Size (mm)	Hole (mm)	
45452A	115 x 1.6	22.2	25
KL187171	125 x 1.6	22.2	25
KL221161	180 x 1.6	22.2	25
KL224084	230 x 1.9	22.2	25

1 CUTTING DISCS FOR METAL

- ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
- TRENNSCHEIBE FÜR METALLE



- CONVEX DISCS
- A24 R/36 SPECIAL – high-performance discs for cutting stainless and acidproof steel

Code	Size (mm)	Hole (mm)	
45343A	115 x 2.5	22.2	25
45344A	125 x 2.5	22.2	25
45261A	180 x 3.0	22.2	25
45254A	230 x 3.0	22.2	25

2 CUTTING DISCS FOR METAL

- ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
- TRENNSCHEIBE FÜR METALLE



- CONVEX DISCS
- A24 EXTRA – all-purpose discs to be used in any metal machining sector
- Possible replacements: 45454A - KL188461, 45458A - KL188463, 45459A - KL189000, 45461A - KL189002

Code	Size (mm)	Hole (mm)	
45454A	115 x 2.5	22.2	25
45456A	125 x 2.5	22.2	25
45459A	180 x 3.0	22.2	25
45461A	230 x 3.0	22.2	25

3 CUTTING DISCS FOR METAL

- ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
- TRENNSCHEIBE FÜR METALLE



- CONVEX DISCS
- A24 EXTRA – all-purpose discs to be used in any metal machining sector
- Possible replacements: 45441A - KL13466, 45450A - KL13738, 45443A - KL13470, 45445A - KL13478

Code	Size (mm)	Hole (mm)	
45441A	115 x 2.5	22.2	25
45450A	125 x 2.5	22.2	25
45443A	180 x 3.0	22.2	25
45445A	230 x 3.0	22.2	25

4 CUTTING DISCS FOR METAL

- ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ МЕТАЛЛА KRONENFLEX
- TRENNSCHEIBE FÜR METALLE



- FLAT DISCS • Type A 24 R SUPRA – high-performance discs for steel cutting

Code	Size (mm)	Hole (mm)	
KL6807	300 x 3.0	22.2	10

5 UNIVERSAL CUTTING DISCS FOR METAL

- УНИВЕРСАЛЬНЫЕ ОТРЕЗНЫЕ ДИСКИ ДЛЯ МЕТАЛЛА
- TRENN- UND SCHLEIFSCHEIBE FÜR METALLE



- CONVEX DISCS
- Type A 46 VZ SPECIAL – Ultrathin discs for efficient cutting and safe grinding with a single tool, ensuring excellent work parameters

Code	Size (mm)	Hole (mm)	
45471	115 x 2.0	22.2	25
45472	125 x 2.0	22.2	25

6 DEPRESSED CENTRE GRINDING DISCS FOR METAL

- ШЛИФОВАЛЬНЫЕ ДИСКИ ДЛЯ МЕТАЛЛА KRONENFLEX
- SCHLEIFSCHEIBE FÜR STAHL



- CONVEX DISCS
- Type A 24 R/36 SPECIAL – discs for grinding stainless and acid-proof steel, with high material removal efficiency

Code	Size (mm)	Hole (mm)	
45005A	115 x 6.0	22.2	10
45027A	125 x 6.0	22.2	10
45002A	180 x 6.0	22.2	10

7 DEPRESSED CENTRE GRINDING DISCS FOR METAL

- ШЛИФОВАЛЬНЫЕ ДИСКИ ДЛЯ МЕТАЛЛА KRONENFLEX
- SCHLEIFSCHEIBE FÜR STAHL



- CONVEX DISCS
- Type A 24 N SUPRA – discs for grinding stainless and acid-proof steel

Code	Size (mm)	Hole (mm)	
45072	125 x 6.0	22.2	10
45075A	230 x 6.0	22.2	10

8 DEPRESSED CENTRE GRINDING DISCS FOR METAL

- ШЛИФОВАЛЬНЫЕ ДИСКИ ДЛЯ МЕТАЛЛА KRONENFLEX
- SCHLEIFSCHEIBE FÜR STAHL



- CONVEX DISCS
- Type A 24 R SUPRA – discs for grinding steel
- Possible replacement: 45433A - KL13401

Code	Size (mm)	Hole (mm)	
45433A	115 x 6.0	22.2	10
KL13402	125 x 6.0	22.2	10
45076A	180 x 6.0	22.2	10
45079	230 x 8.0	22.2	10

1 DEPRESSED CENTRE GRINDING DISCS FOR METAL

• ШЛИФОВАЛЬНЫЕ ДИСКИ ДЛЯ МЕТАЛЛА KRONENFLEX
• SCHLEIFSCHEIBE FÜR STAHL



- CONVEX DISCS
- Type A 46 SUPRA – soft standard disc for grinding aluminium and other non-ferrous metals

Code	Size (mm)	Hole (mm)	
45890	115 x 6.0	22.2	10

2 DEPRESSED CENTRE GRINDING DISCS FOR METAL

• ШЛИФОВАЛЬНЫЕ ДИСКИ ДЛЯ МЕТАЛЛА KRONENFLEX
• SCHLEIFSCHEIBE FÜR STAHL



- CONVEX DISCS
- Type A 24 EXTRA – all-purpose discs to be used in any metal machining sector
- Possible replacements: 45462A - KL188465
  45458A - KL188466
  45435A - KL13444

Code	Size (mm)	Hole (mm)	
KL13446	180 x 8.0	22.2	10
KL13447	115 x 6.0	22.2	10
45435A	180 x 6.0	22.2	10
45458A	125 x 6.0	22.2	10
45652A	115 x 6.0	22.2	10

3 CUTTING DISCS FOR STONE

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ КАМНЯ KRONENFLEX
• TRENNSCHEIBEN FÜR STEIN



- CONVEX DISCS
- Type C 24 R SUPRA – high-performance discs for machining mineral materials
- Possible replacements: 45444A - KL13475

Code	Size (mm)	Hole (mm)	
45442A	180 x 3.0	22.2	25
45444A	230 x 3.0	22.2	25

4 CUTTING DISCS FOR STONE

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ КАМНЯ KRONENFLEX
• TRENNSCHEIBEN FÜR STEIN



- CONVEX DISCS
- Type C 24 EXTRA – economic discs for machining mineral materials
- Possible replacements: 45455A - KL188462
  45457A - KL188464

Code	Size (mm)	Hole (mm)	
45455A	115 x 2.5	22.2	25
45457A	125 x 2.5	22.2	25

5 CUTTING DISCS FOR STONE

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ КАМНЯ KRONENFLEX
• TRENNSCHEIBEN FÜR STEIN



- FLAT DISCS
- Type C 24 R SUPRA – high-performance discs for machining mineral materials

Code	Size (mm)	Hole (mm)	
KL13465	115 x 2.5	22.2	25
45429A	125 x 2.5	22.2	25
45339A	180 x 3.0	22.2	25
KL13461	230 x 3.0	22.2	25

6 CUTTING DISCS FOR STONE

• ОТРЕЗНЫЕ ДИСКИ ДЛЯ РЕЗКИ КАМНЯ KRONENFLEX
• TRENNSCHEIBEN FÜR STEIN



- FLAT DISCS
- Type C 24 EXTRA – economic discs for machining mineral materials

Code	Size (mm)	Hole (mm)	
KL13489	180 x 3.0	22.2	25
KL13491	230 x 3.0	22.2	25



7 FLAP WHEELS

• ТОРЦЕВЫЕ ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ ДИСКИ С ХВОСТОВИКОМ Ø 6 MM • SCHLEIFMOP



- KM 613 • Flap discs made from abrasive cloth with aluminium oxide grain applied radially on the pin Ø 6 mm • Application: general, cleaning, finish polishing of components with complex shapes for handheld machines

Code	Dia. x width (mm)	Granulation	
45602X	30 x 15	40	10
45603X	30 x 15	60	10
45399	40 x 20	40	10
45400	40 x 20	60	10
45401	40 x 20	80	10
45402	40 x 20	100	10
45403	40 x 20	120	10
45404	60 x 30	40	10
45405	60 x 30	60	10
45406	60 x 30	80	10
45407	60 x 30	100	10
45408	60 x 30	120	10
45509X	60 x 30	150	10
45409	80 x 30	40	10
45410	80 x 30	60	10
45411	80 x 30	80	10
45412	80 x 30	100	10
45413	80 x 30	120	10

8 FLAP DISCS OF ALUMINIUM OXIDE

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ ДИСКИ
• SCHLEIFMOPTELLER



- SMT 324 • Leaf grinding discs for multi-purpose metal machining, primarily edge grinding • Good value for money • Convex • Hole dia. 22.2 mm

Code	Diameter (mm)	Granulation	
KL321509	115	40	10
KL321511	115	60	10
KL321513	115	80	10

1 FLAP DISCS OF ALUMINIUM OXIDE

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ ДИСКИ
• SCHLEIFMOPTELLER



• Type SMT 325 • Flap discs made from abrasive linen with zirconium oxide grain, applied evenly on the plastic body reinforced with glass fibre
• Straight • Application: grinding surfaces, metal, steel, steel sheets, brass, bronze • Hole dia. 22.2 mm • Convex

Code	Diameter (mm)	Granulation	
KL321653	115	40	10
KL321655	115	60	10
KL321657	115	80	10

2 FLAP DISCS OF ALUMINIUM OXIDE

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ ДИСКИ
• SCHLEIFMOPTELLER



• Type SMT 624 • Application: for machining steel and highgrade stainless steel • For edge grinding • Flap discs (fin plates) with aggressive zirconium oxide • Convex • Hole dia. 22.2 mm

Code	Diameter (mm)	Granulation	
KL322771	125	36	10
KL322772	125	40	10
KL322774	125	60	10
KL322775	125	80	10
KL322776	125	120	10

3 FLAP DISCS OF ALUMINIUM OXIDE

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ ДИСКИ • SCHLEIFMOPTELLER



• Type SMT 626 • Application: for machining steel and highgrade stainless steel • For grinding edges and seams, also for grinding frontal surfaces of objects and large surfaces • Flap discs (fin plates) with aggressive zirconium oxide • Convex • Hole dia. 22.2 mm

Code	Diameter (mm)	Granulation	
KL321689	115	40	10
KL321694	115	60	10
KL321697	115	80	10
KL321690	125	40	10
KL321695	125	60	10
KL321698	125	80	10

4 FLAP DISCS OF ALUMINIUM OXIDE

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ ДИСКИ
• SCHLEIFMOPTELLER



• SMT 926 • Leaf grinding discs for multi-purpose professional application • Perfect durability and high performance of grinding
• Convex • Hole dia. 22.2 mm

Code	Diameter (mm)	Granulation	
KL321704	125	40	10
KL321707	125	60	10
KL321709	125	80	10

5 FLAP DISCS OF ALUMINIUM OXIDE

• ШЛИФОВАЛЬНЫЕ ЛЕПЕСТКОВЫЕ ДИСКИ
• SCHLEIFMOPTELLER



• Type SMT 314 • Flap discs made from abrasive linen with aluminium oxide grain, applied evenly on the glass fibre body • Convex 12°
• Application: perfect for machining edges, welding seams on stainless steel, steel sheets, aluminium, brass, bronze, wood, plastic, paints and varnishes
• Hole dia. 22.2 mm

Code	Diameter (mm)	Granulation	
KL322809	115	40	10
KL322811	115	60	10
KL322812	115	80	10
KL322813	115	120	10
KL322815	125	40	10
KL322817	125	60	10
KL322818	125	80	10
KL322819	125	120	10
KL322821	180	40	10
KL322822	180	60	10
KL322823	180	80	10

6 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND



• Type PS 22 K - with dust ports
• Base – heavy paper; E Type • Grit – aluminium oxide, semi-continuous • Binder – artificial resin • Application: for grinding metal and wood, including hardwood, plywood, MDF, wooden floors • Sold in packs of 1 pc.

Code	Diameter (mm)	Granulation	
45115	115	40	50
45116	115	60	50
45117	115	80	50
45118	115	100	50
45119	115	120	50

7 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND



• Type PS 22 K - with dust ports
• Base – heavy paper; E Type • Grit – aluminium oxide, semi-continuous • Binder – artificial resin • Application: for grinding metal and wood, including hardwood, plywood, MDF, wooden floors
• Sold in packs of 5 pcs.

Code	Diameter (mm)	Granulation	
45293	125	40	5
45294	125	60	5
45295	125	80	5
45297	125	120	5

1 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND



- Type PS 22 K - without dust ports
- Base – heavy paper, E Type • Grit – aluminium oxide, semi-continuous • Binder – artificial resin • Application: for grinding metal and wood, including hardwood, plywood, MDF, wooden floors • Sold in sets of 5 pc

Code	Diameter (mm)	Granulation	
45536	125	40	10
45537	125	60	10
45538	125	80	10
45540	125	120	10

2 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND



- Type PL 28 CK - without dust ports
- Base - lightweight paper C • Grit - aluminium oxide, continuous • Binder - glue - resin
- Application: all-purpose, for grinding wood, metal, varnishes and plastic • Sold in packs of 1 pc.

Code	Diameter (mm)	Granulation	
45782C	125	36	50
45740C	125	40	50
45741C	125	60	50
45742C	125	80	50
45743C	125	100	50
45365C	125	120	50
45744C	125	150	50
45745C	125	180	50
45746C	125	220	50
45747C	125	240	50

3 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND



- Type PS 21FK
- Base - paper • Grit - full zirconium oxide
- Binder - artificial resin • Recommended for aggressive grinding due to the self-sharpening zirconium alumina • High durability • Sold by 1 pc.

Code	Diameter (mm)	Granulation	
45791C	125	40	50
45792C	125	60	50
45793C	125	80	50
45794C	125	100	50
45795C	125	120	50
45796C	125	150	50
KL237786	125	320	50
KL237787	125	400	50

4 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND

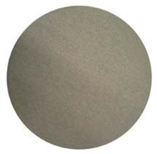


- Type PS 33 CK - with dust ports
- Base – paper C • Grit – aluminium oxide, semi-continuous • Binder - artificial resin
- Application: for machining paints, varnishes and fillers, especially for car repairs • Sold by 1 pc.

Code	Diameter (mm)	Granulation	
45535F	150	60	100
45535D	150	80	100
45869E	150	120	100
45543F	150	150	100
45546F	150	180	100
KL294609	225	100	50
KL292437	225	120	50
KL293646	225	150	50
KL293647	225	180	50
KL293648	225	220	50
holes scheme GLS52			
KL302042	225	40	100
KL302043	225	60	100
KL302044	225	80	100
KL302045	225	100	100
KL302046	225	120	100
KL302049	225	220	100

5 SELF ADHESIVE PAPER DISCS

• КРУЖКИ ШЛИФОВАЛЬНЫЕ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ
• SCHLEIFSCHEIBEN AUS PAPIER, HAFTEND



- Type PS 33
- Base - paper C (45361-45364), B (45365-45366) • Grit - aluminium oxide, semicontinuous
- Binder - artificial resin • High-quality sanding papers, especially for machining paints, varnishes and fillers • Can be used for grinders THZ600 and THZ800 • Sold by 1 pc..

Code	Diameter (mm)	Granulation	
45361	225	60	50
45362	225	80	50
45363	225	100	50
45364	225	120	50
45365	225	150	50
45366	225	180	50

6 SELF ADHESIVE FIBRE DISCS

• ФИБРОВЫЕ ШЛИФОВАЛЬНЫЕ ДИСКИ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ • SCHLEIFSCHEIBEN AUS FASERN

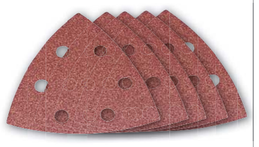


- Type CS 561 FIBRA
- Base - fibre • Grit - full aluminium oxide
- Binder - artificial resin • Application: for machining metal, removing corrosion, lagging, seam grinding • For angle grinders with a displacement disc (see product no. 27023, 27024, 27026) • Sold in packs of 1 pc.

Code	Diameter (mm)	Granulation	
45344X	115	16	25
45268A	115	24	25
45269A	115	36	25
45351A	115	40	25
45271A	115	60	25
45272A	115	80	25
45342A	115	100	25
45267A	115	120	25
45352A	125	16	25
45274X	125	24	25
45275A	125	36	25
45359A	125	40	25
45277A	125	60	25
45278A	125	80	25
45360A	125	100	25
45273A	125	120	25
45362A	180	16	25
45280A	180	24	25
45281A	180	36	25
45369A	180	40	25
45283A	180	60	25
45284A	180	80	25
45490A	180	100	25
45279A	180	120	25

1 SANDING SHEETS DELTA

• ДЕЛЬТОВИДНЫЕ ШЛИФОВАЛЬНЫЕ ЛИСТЫ НА САМОЗАЦЕПЛЯЕМОЙ ОСНОВЕ • SCHLEIFBLÄTTER TYPE „DELTA", HAFTEND



- Type PS 22 K - DELTA with dust ports • Base – E paper reinforced with a technical textile
- Grit – aluminium oxide, semicontinuous
- Binder – artificial resin • Application: for grinding wood, paints, varnishes, rubber, and especially wooden floors and parquet • Sold in sets of 5 pcs.

Code	Size (mm)	Granulation	
45602	94 x 94	40	10
45603	94 x 94	60	10
45604	94 x 94	80	10
45606	94 x 94	120	10

2 SANDING SHEETS

• ШЛИФОВАЛЬНЫЕ ЛИСТЫ • SCHLEIFPAPIER IN BOGENFORM



- Type PS 30 D
- Base - lightweight paper D • Grit - semi-continuous aluminium oxide • Binder - artificial resin • Application: for deciduous and coniferous wood and gypsum • Sold by 1 pc..

Code	Size (mm)	Granulation	
45555	230 x 280	60	50
45557	230 x 280	100	50
45558	230 x 280	120	50

3 WET AND DRY PAPER SHEETS

• ШЛИФОВАЛЬНЫЕ ВОДОСТОЙКИЕ ЛИСТЫ • NASS UND TROCKEN SCHLEIFBLÄTTER



- Type PS 8 A
- Base - latex covered paper A • Grit - full silicon carbide • Application: for metal and plastic surfaces, paints, varnishes, glass etc.
- In particular, wet machine grinding of sheet metal after priming, grinding paints, varnishes, plastics, both dry and wet, preparation of metallographic compositions
- Sold by 1 pc.

Code	Size (mm)	Granulation	
45015Z	280 x 230	60	50
45016	280 x 230	80	50
45017	280 x 230	100	50
45018	280 x 230	120	50
45019	280 x 230	150	50
45020	280 x 230	180	50
45021Z	280 x 230	220	50
45022	280 x 230	240	50
45023Z	280 x 230	280	50
45023	280 x 230	320	50
45025	280 x 230	360	50
45026	280 x 230	400	50
45027	280 x 230	500	50
45028	280 x 230	600	50
45029	280 x 230	800	50
45030	280 x 230	1000	50
45031	280 x 230	1200	50
45032Z	280 x 230	1500	50
45033Z	280 x 230	2000	50
45034Z	280 x 230	2500	50

4 CLOTH BACKED SANDING SHEETS

• ШЛИФОВАЛЬНЫЕ ЛИСТЫ • SCHLEIFBLÄTTER



- Type KL 375 J • Base - cloth J • Grit - continuous aluminium oxide • Binder - glue - resin • Application: standard sanding sheet, for manual prosessing of metal, very elastic
- Sold by 1 pc.

Code	Size (mm)	Granulation	
45314B	230 x 280	40	50
45315B	230 x 280	60	50
45316B	230 x 280	80	50
45317B	230 x 280	100	50
45318B	230 x 280	120	50
45319B	230 x 280	150	50
45320B	230 x 280	180	50
45712C	230 x 280	220	50

5 SANDING SHEETS

• ШЛИФОВАЛЬНЫЕ ЛИСТЫ • SCHLEIFPAPIER IN BOGENFORM



- Type PL 28 C
- Base - paper C • Grit - ordinary aluminium oxide, continuous • Binder - glue - resin
- Application: all-purpose, for grinding wood, metal, varnishes and plastic • Sold by 1 pc..

Code	Size (mm)	Granulation	
45800B	230 x 280	40	50
45801B	230 x 280	60	50
45763B	230 x 280	80	50
45354C	230 x 280	100	50
45764B	230 x 280	120	50
45355C	230 x 280	150	50
45356C	230 x 280	180	50
45748C	230 x 280	220	50
45982D	230 x 280	240	50

6 ABRASIVE ROLLS

• ШЛИФОВАЛЬНЫЕ ЛЕНТЫ В РУЛОНАХ • SCHLEIFPAPIER IN ROLLENFORM



- PS 30 D • Base - paper D • Grit - semicontinuous aluminium oxide • Binder - artificial resin • Application: for wood, paints, varnishes and filler • Sold in rolls of 5 m

Code	Size Width x Length	Granulation	
45431	115 mm x 5 m	40	10 rolls
45432	115 mm x 5 m	60	10 rolls
45433	115 mm x 5 m	80	10 rolls
45434	115 mm x 5 m	100	10 rolls
45435	115 mm x 5 m	120	10 rolls

1 ABRASIVE ROLLS

• ШЛИФОВАЛЬНЫЕ ЛЕНТЫ В РУЛОНАХ • SCHLEIFPAPIER IN ROLLENFORM



- PS 30 D
- Base - paper D • Grit - semi-continuous aluminium oxide • Binder - artificial resin
- Application: for grinding wood, paints, varnishes and filler • Sold based on roll length

Code	Width (mm)	Granulation	Length (m)
45702CM	93	40	30
45923BM	93	60	50
45924BM	93	80	50
45925BM	93	100	50
45926BM	93	120	50
45927BM	93	150	50
45975CM	93	180	50
45976CM	93	240	50
45704CM	115	40	30
45930BM	115	60	50
45931BM	115	80	50
45503BM	115	100	50
45932BM	115	120	50
45504BM	115	150	50
45505BM	115	180	50
45506BM	115	240	50

2 CLOTH BACKED ABRASIVE ROLLS

• ШЛИФОВАЛЬНЫЕ ТКАНЕВЫЕ ЛЕНТЫ В РУЛОНАХ
• SCHLEIFPAPIER IN BOGENFORM



- Type KL 381 J
- Base - lightweight cloth J - brown • Grit - ordinary continuous aluminium oxide
- Binder - glue - resin • Application: standard product for machine and manual grinding of metal and wood • Sold based on roll length

Code	Width (mm)	Granulation	Length (m)
45348	150	40	30
45351	150	60	50
45353	150	80	50
45354	150	100	50
45355	150	120	50
45282CM	200	24	30
45360CM	200	36	30
45263CM	200	40	30
45999BM	200	60	50
45000CM	200	80	50
45001CM	200	100	50
45002CM	200	120	50
45003CM	200	150	50
45004CM	200	180	50
45005CM	200	220	50
45006CM	200	240	50



3 ABRASIVE BELTS

• ШЛИФОВАЛЬНЫЕ БЕСКОНЕЧНЫЕ ТКАНЕВЫЕ ЛЕНТЫ
• SCHLEIFBAND



- LS 309 XH
- Base - heavy flexible textile X • Grit - ordinary continuous aluminium oxide • Binder - artificial resin • Application: for grinding cast iron, steel, nonferrous metals, plastic, paints, varnishes and wood using handheld power tools • Sold in sets of 3 pcs.

Code	Size (mm)	Granulation	
45541	75 x 457	40	6
45542	75 x 457	60	6
45543	75 x 457	80	6
45544	75 x 457	100	6
45545	75 x 457	120	6
45335	75 x 533	40	6
45336	75 x 533	60	6
45337	75 x 533	80	6
45338	75 x 533	100	6
45339	75 x 533	120	6
45340	100 x 610	40	6
45341	100 x 610	60	6
45342	100 x 610	80	6
45343	100 x 610	100	6
45344	100 x 610	120	6

4 ABRASIVE BELTS

• ШЛИФОВАЛЬНЫЕ БЕСКОНЕЧНЫЕ ТКАНЕВЫЕ ЛЕНТЫ
• SCHLEIFBAND



- LS 307 X
- Base - heavy flexible textile X • Grit - ordinary continuous aluminium oxide • Binder - artificial resin • Application: for grinding cast iron, steel, nonferrous metals, plastic, paints, varnishes and wood using handheld power tools • Sold in sets of 1 pc.

Code	Size (mm)	Granulation	
45128B	75 x 457	40	10
45310B	75 x 457	60	10
45131B	75 x 457	80	10
45247B	75 x 457	100	10
45248B	75 x 457	120	10
45096B	75 x 533	40	10
45097B	75 x 533	60	10
45098B	75 x 533	80	10
45099B	75 x 533	100	10
45100B	75 x 533	120	10
45646	75 x 533	150	10
45043	75 x 533	180	10
45129B	100 x 610	40	10
45130B	100 x 610	60	10
45133B	100 x 610	80	10
45132B	100 x 610	100	10
45311B	100 x 610	120	10

5 GRINDING FELT SHEET

• ЛИСТОВОЕ ШЛИФОВАЛЬНОЕ ВОЛОКНО • FILZ-SCHLEIFPLATTE



- For deburring, cleaning and surface treatment. • Application: for grinding paints, varnishes and stainless steel.

Code	Width x Length (mm)	Granulation	
45345	152x229	180	

EXPRESS

flame resistant sheets
gas cartriges
power torches



1 POWER TORCH

• ПАЯЛЬНАЯ ЛАМПА • LÖTLAMPE





- Flame temp. 1850°C
- Gas consumption 110g/h
- Rapid flame stabilization (1.5 min)
- Perfect for heating, plumbing, airconditioning systems
- Easy to use, ergonomic, stable base
- Replaceable, high-performance disposable LPG container (E8191- 190g)
- Metal body

Code	Temperature of flame		
E8700	1850°C	x	6

2 AUTO POWER TORCH

• ПАЯЛЬНАЯ ЛАМПА • LÖTLAMPE PIEZO





- Flame temp. 1850°C
- Gas consumption 110g/h
- Convenient piezoelectric ignition
- Rapid flame stabilization (1.5 min)
- Perfect for heating, plumbing, airconditioning systems
- Easy to use, ergonomic, stable base
- Replaceable, high-performance disposable LPG container (E8191- 190g)
- Metal body

Code	Temperature of flame		
E8800	1850°C	x	6

3 AUTO POWER TORCH

• ПАЯЛЬНАЯ ЛАМПА • LÖTLAMPE PIEZO







- Flame temp. 1850°C
- Gas consumption 110g/h
- Convenient piezoelectric ignition
- Possible instant turn with flame stabilization after 15 sec.
- Perfect for heating, plumbing, airconditioning systems
- Easy to use, ergonomic, stable base
- Replaceable, high-performance disposable LPG container (E8191- 190g)
- Metal body

Code	Temperature of flame		
E8900	1850°C	x	6

1 POWER TORCH

• ПАЯЛЬНАЯ ЛАМПА • LÖTLAMPE EXPRESS, KLASSISCH MIT DÜSE FÜR EINE KONZENTRIERTE FLAMME





- Flame temp. 1850°C with gas container E5550
- Perfect for heating, plumbing, airconditioning systems
- The set with a gas container E5550 - 340g work time 2 - 10h depending on the load
- Container with an European valve enables to mount/dismount without any gas loss
- After 2 minutes of heating can be used in any position

Code	Temperature of flame		
E5110	1850°C	x	2

2 PLUMBER POWER TORCH

• ПАЯЛЬНАЯ ЛАМПА • LÖTLAMPE EXPRESS FÜR HYDRAULIKER MIT 2 DÜSEN





- Flame temp. 2015°C with gas container E2015
- Perfect for heating, plumbing, air-conditioning systems
- The set includes gas container E2015 - 326g
- Work time 2-10h depending on the load
- Container with an European valve enables to mount/dismount without any gas loss
- After 2 minutes of heating can be used in any position

Code	Temperature of flame		
E5250	2015°C	x	2

3 POWER TORCH

• ПАЯЛЬНАЯ ЛАМПА • MULTIFUNKTIONSLÖTLAMPE EXPRESS MIT 3 DÜSEN







- Flame temp. 1850°C with gas container E5550
- The set includes the following nozzles: enveloping, concentrated flame and flat flame
- Perfect for heating, plumbing, airconditioning systems
- The set includes gas container E5550 - 340g
- Work time 2-10h depending on the load
- Container with an European valve enables to mount/dismount without any gas loss
- After 2 minutes of heating can be used in any position

Code	Temperature of flame		
E5310	1850°C	x	2

4 POWER TORCH

• ПАЯЛЬНАЯ ЛАМПА • BUTANLÖTBRENNER MIT ZUBEHÖR





- Flame temp. 1850°C
- The set includes nozzles: Cercoflam for soldering copper tubes Ø 24mm, for heat-removal of varnish coats, supply hose 1.5m
- Gas consumption 312g/h
- Burner output 4.3 kW

Code	Temperature of flame		
E5200	1850°C	x	4

5 LAME RESISTANT SHEET

• ОГНЕУПОРНЫЙ МАТ • FEUERBESTÄNDIGE MATTE



- For protecting the soldering/brazing site
- Does not contain asbestos, made from glass fibre

Code	Size (mm)		
E5459	200 x 250	x	50

1 POWER TORCH
• ПАЯЛЬНАЯ ЛАМПА • LÖTLAMPE PIEZO



- Flame temp. depending on the container used: 1850°C for E5550 2015°C for E2015 • Application: Plumbing systems, soldering and brazing, heatremoval, defrosting, corrosion removal • Continuous operation 100 min. • Container with an European valve enables to mount/dismount without any gas loss • After 10-15 sec. of heating can be used in any position

Code	Temperature of flame		
E3420	1850°C	x	2

2 POWER TORCH
• ПАЯЛЬНАЯ ЛАМПА • LÖTLAMPE PIEZO



- Flame temp. depending on the container used: 1850°C for E5550; 2015°C for E2015 • Application: Plumbing systems, soldering and brazing, heat-removal, defrosting, corrosion removal • Continuous operation 80 min.
- Container with an European valve enables to mount/dismount without any gas loss • After 10-15 sec. of heating can be used in any position

Code	Temperature of flame		
E3430	2015°C	x	2

3 PROFESSIONAL AUTO POWER TORCH
• ПАЯЛЬНАЯ ЛАМПА • PROFESSIONELLER BRENNER VULCANE EXPRESS



- Flame temp. 2400°C • Nozzle for soldering copper tubes with dia. up to 22 mm • Plumbing, heating and air-conditioning systems
- Spinning Turbo flame - ensures even heat distribution round the perimeter of the soldered/brazed tubes • Piezoelectric ignition
- Double flame work - interrupted and continuous • Instant work in any position • „Hands free" support - to rest the burner on the ground when the work requires two hands • Gas container 399g MAP/Pro (cat. no. E2400) • Ergonomic burner made from friendly and safe materials

Code	Temperature of flame		
E4700	2400°C	x	1

4 HOT AIR GUN
• АВТОМАТИЧЕСКИЙ ПИСТОЛЕТ ГОРЯЧЕГО ВОЗДУХА • AUTOMATISCHE HEISSLUFTPISTOLE



- Work temperature range: 400°C - 750°C • Automatic ignition
- Work even at - 8°C • For heating galvanised surfaces without damaging them • Processing coats and PVC pipes • Shrinking plastic and selfadhesive strips • Facilitates installation of adhesive floorings • Welding and repairing PCV covers • Drying gypsumboard connections • Drying or heat-removing paint and varnish coats • Defrosting plumbing systems and locks • For loosening corroded bolts and nuts • With E4440 container - 60g

Code	Range of temperatures		
E4500V	400°C - 750°C	x	1

1 GAS CARTRIDGE

• КАРТРИДЖ С ГАЗОМ • GASPPATRO NE



• For burners E4700, E4720

Code	Volume (g)	
E2400	399	12

2 BUTANE-PROPANE-PROPYLENE CARTRIDGE

• ГАЗОВЫЙ КАРТРИДЖ • PROPAN-BUTAN-PROPYLEN GASPPATRONE



• For E5110, E5250, E5310, E3420, E3430

Code	Volume (g)	
E2015	326	12

3 BUTANE-PROPANE-PROPYLENE CARTRIDGE

• ГАЗОВЫЙ КАРТРИДЖ • PROPAN - BUTAN - PROPYLEN GASPPATRONE



• For E5110, E5250, E5310, E3420, E3430, E4500
• Can be operated in any position

Code	Volume (g)	
E4440	60	12

4 BUTANE-PROPANE CARTRIDGE

• ГАЗОВЫЙ КАРТРИДЖ • PROPAN - BUTAN GASPPATRONE



• For E5110, E5250, E5310, E3420, E3430

Code	Volume (g)	
E5550	340	12

5 BUTANE-PROPANE CARTRIDGE

• ГАЗОВЫЙ КАРТРИДЖ • GASPPATRONE BUTAN - PROPAN MIT ABSICHERUNG "STOP GAS"



• Unique system preventing gas leak if the torch gets detached from the cartridge
• For E8700, E8800, E8900

Code	Volume (g)	
E8191	190	36

ACTION CAN

chemical products
cleaning agents
greases
oils
removers
rust converters



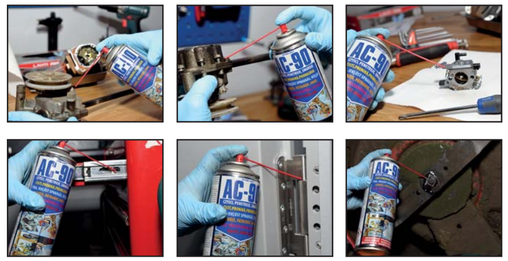
1 AC90 ANTICORROSION MAINTENANCE SPRAY

• AC 90 УНИВЕРСАЛЬНЫЙ ПРЕПАРАТ - ТЫСЯЧА ОДИН СПОСОБ ПРИМЕНЕНИЯ • AC90 MULTIFUNKTIONSREINIGUNGS- UND KONSERVIERUNGSMITTEL

ACTION CAN made in U.K. 60 years of experience on the global aerosol market



PENETRATES, LUBRICATES, REMOVES CORROSION, REMOVES MOISTURE



- Quickly releases corroded and baked-on components • Cleans and protects devices against corrosion • Removes any squeaks and creaks of hinges, locks, curtain rails and other mechanical devices • Improves operation of ignition system exposed to water or moisture • Penetrates under the moist layer, creating a protective barrier between water and metals • Eliminates short circuits caused by water • Recommended for electrical ignition • Protects vehicle locks from moisture and freezing • Removes dirt, dust, marks left by crayons and felt-tip markers, chewing gum and adhesives • 1001 applications in industry, workshop, household

Code	Volume (ml)	
42358	500	15

2 CS90 COPPER ANTI-SEIZE GREASE

• CS90 ВЫСОКОТЕМПЕРАТУРНАЯ СМАЗКА НА БАЗЕ МЕДИ С ДОБАВКОЙ ГРАФИТА • CS90 CU-FETT HOCH-TEMP. 1200°C



- High-temperature solid grease • Based on copper and graphite, waterresistant and lead-free • Penetrates inside chains, ropes, locks and clamps, brakes and bearings
- Does not contain silicone or chlorides • Up to 1200°C• Offers anti-corrosion protection

Code	Weight (g)	
42340	500	12

3 CT90 CUTTING & TAPING FLUID

• CT90 ПРЕПАРАТ ДЛЯ ОБРАБОТКИ МЕТАЛЛА В СПРЕЕ
• CT90 PRÄPARAT ZUR SPANBEARBEITUNG: METALLE



- Spray for cutting and drilling metals and stainless steels (except for non-ferrous metals) • Facilitates cutting, threading, drilling also in mineral materials
- Significantly shortens the machining and expands life of tools • Minimises the risk of tube wall damage when threading

Code	Volume (ml)	
42341	500	15


ACTION CAN
AC-90

1 TF90 FAST DRYING CLEANING SOLVENT

- TF90 ПРОМЫШЛЕННЫЙ БЫСТРОСОХНУЩИЙ РАСТВОРИТЕЛЬ
- TF90 INDUSTRIE-LÖSUNGSMITTEL



- Fast-drying solvent. Removes dirt, e.g. oil, grease, tar, wax, coal • Can be used also for cleaning electrical components

Code	Volume (ml)	
42342	500	15

3 SL90 VISCOUS LUBRICATING OIL + P.T.F.E.

- SL90 МИНЕРАЛЬНОЕ МАСЛО С ПТФЕ В СПРЕЕ
- SL90 MINERALÖL MIT P.T.F.E



- High-quality all-purpose mineral oil spray with P.T.F.E. • Perfect corrosion protection of any surface • Up to 250°C • Does not contain silicone

Code	Volume (ml)	
42343	500	15

5 CG90 GENERAL CLEAR GREASE + P.T.F.E.

- CG90 МИНЕРАЛЬНАЯ ВОДООДПОРНАЯ СМАЗКА (ПРОЗРАЧНАЯ) С ПТФЕ • CG90 MINERALSCHMIERMITTEL REIN, MIT ZUSATZ VON P.T.F.E.



- Mineral grease with P.T.F.E., waterproof
- All-purpose grease • Designed for work temperatures up to 250°C • Perfect for bearings, chains and springs

Code	Volume (ml)	
42348	500	15

2 RP90 RAPID PENETRATING & RELEASE FLUID

- RP90 ПРЕОБРАЗОВАТЕЛЬ РЖАВЧИНЫ В СПРЕЕ
- RP90 ROSTNEUTRALISATOR



- For cleaning very rusty surfaces of moving parts, e.g. bolts • Quickly penetrates to even smallest apertures • Low density, high penetrating properties

Code	Volume (ml)	
42344	500	15

4 SP90 SILICONE RELEASE/NON-STICK LUBRICANT

- SP90 СИЛИКОНОВАЯ СМАЗКА В СПРЕЕ
- SP90 SILIKONPRÄPARAT



- Leaves a non-marking, dry film protecting surfaces • Prevents sticking of plastic and rubber components • Designed for application in a wide range of temperatures, up to +250 °C

Code	Volume (ml)	
42346	500	15

6 ZG90 COLD ZINC GALVANISE

- ZG90 ЦИНК ГАЛЬВАНИЧЕСКИЙ В СПРЕЕ
- ZG90 KALTVERZINKT



- Pure zinc preventing corrosion, all-purpose
- Perfect for galvanised surfaces and welded components • Quickly dries, binding with metal • Do not use inside cisterns • Light colour

Code	Volume (ml)	
42349	500	15

1 AMAZE DASH&BUMPER CLEANER

- AMAZE СРЕДСТВО ПО УХОДУ И ЧИСТКЕ РЕЗИНОВЫХ И ПЛАСТИКОВЫХ ПОВЕРХНОСТЕЙ В САЛОНЕ АВТОМОБИЛЯ
- VALET KING PRÄPARAT ZUR REINIGUNG VON TEPPICHEN, POLSTERUNGEN



- This product is designed for cleaning PVC, rubber, wood, leather, bumpers, mudguards, dashboards, windscreen wipers and side mirrors

Code	Volume (ml)	
42352	500	15

2 BC90 ZMYWACZ DO TARCZ HAMULCOWYCH

- BC90 BRAKE AND CLUTCH CLEANER • BC90 СРЕДСТВО ДЛЯ ЧИСТКИ ТОРМОЗНЫХ ДИСКОВ

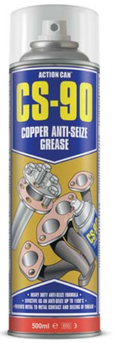


- Cleaner for brake discs, clutch plates, and other soiled or oily parts and assemblies
- Effectively removes oil and grease

Code	Volume (ml)	
42353	500	15

3 CS90 COPPER GREASE ANTI-SEIZE LUBRICANT

- CS90 ВЫСОКОТЕМПЕРАТУРНАЯ СМАЗКА В СПРЕЕ
- CS90 CU-SCHMIERMITTEL FÜR HOHE TEMPERATUREN 1200°C



- High-temperature solid grease • Based on copper and graphite, waterresistant and lead-free • Penetrates inside chains, ropes, locks and clamps, brakes and bearings
- Does not contain silicone and chlorides
- Up to 1200°C • Offers anti-corrosion protection

Code	Volume (ml)	
42354	500	15

4 AT90 AIR TOOL LUBRICANT

- AT90 СМАЗКА ДЛЯ ПНЕВМОИНСТРУМЕНТА
- AT90 SPEZIALÖL FÜR PNEUMATISCHE GERÄTE



- Special additives in this product provide anticorrosion protection and even lubrication, increasing the lifetime of tools
- AT-90 is easy to apply and does not foam
- The product can be used for any air tools and compressors • Can be mixed with any mineral oil-based cures without the risk of excess drying of the lubricating system
- Oil parameters enable to use it for amateur and professional air tools at home or in your workshop

Code	Volume (ml)	
42356	500	12



5 BLUE CRYSTAL GLASS CLEANER

- ЖИДКОСТЬ ДЛЯ ОЧИСТКИ СТЕКЛА И ОБОРУДОВАНИЯ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ • BLUE CRYSTAL GLASREINIGER



- Universal cleaning agent for glass, plastics, ceramic tiles, metal, and other hard surfaces • Ready to use spray for quick and easy cleaning thanks to an antistatic additive that prevents dust accumulation • No streaks or smudges

Code	Volume (ml)	
42359	750	12

TRYTON



Tryton is a family of nearly 200 electrical and internal combustion-based power tools. It’s a range of products designed for advanced users who need a wide range of power tools in their work. Tryton works great in shops and craft companies, supporting renovation and construction crews. The brand has been on the Polish market since 2006.

Tryton tools are designed based on proven solutions and components of the highest quality. The latter are selected, so as to guarantee long-term trouble-free operation at the most attractive price possible. Tryton power tools have all kinds of solutions that improve work comfort.

Tryton tools have a great advantage in that they guarantee availability of professional service, both during the warranty period and after. The brand’s owner ensures permanent availability of spare parts, allowing periodic inspections and upgrades.

Tryton - линейка изделий, насчитывающая около 200 электроинструментов и устройств на двигателях внутреннего сгорания. Это продукты, предназначенные для опытных пользователей, которым для работы требуется широкий спектр электроинструментов. Tryton прекрасно себя покажет в ремесленных компаниях и предприятиях в качестве поддержки для ремонтных и строительных бригад. Марка присутствует на польском рынке с 2006 года.

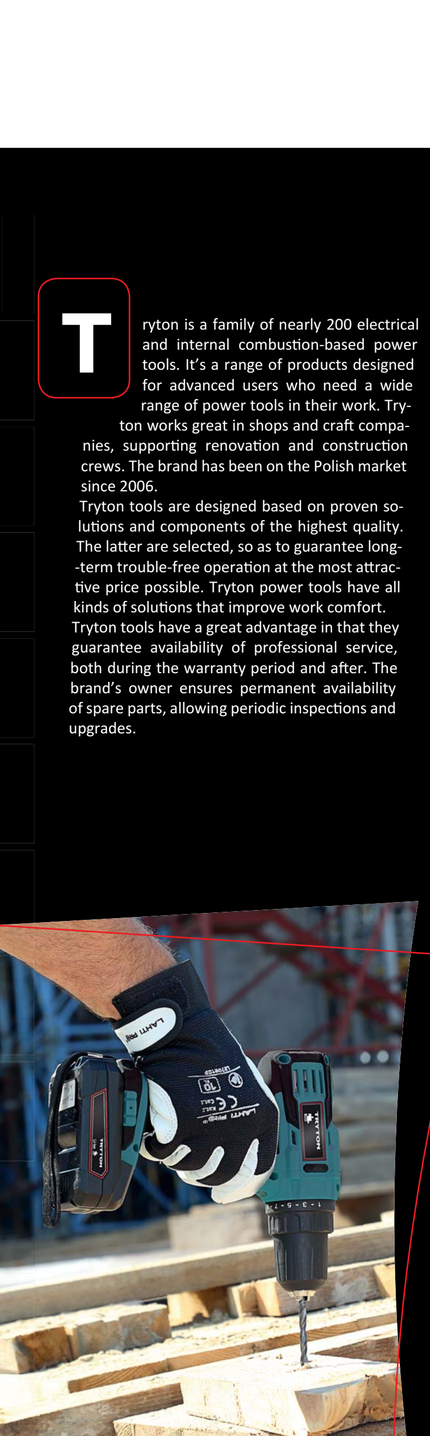
Устройства Tryton спроектированы на базе проверенных технических решений и подузлов наивысшего качества. Эти подузлы подобраны таким образом, чтобы обеспечить продолжительную безаварийную работу за наиболее привлекательную цену. В Power Tools, обозначенных маркой Tryton, мы найдем всевозможные приспособления, повышающие комфорт работы.

Огромным преимуществом машин Tryton является гарантия их профессионального сервисного обслуживания как в течение срока действия гарантии, так и по его окончании. Владелец марки обеспечивает постоянную доступность запчастей, что позволяет выполнять периодические техосмотры и модернизацию.

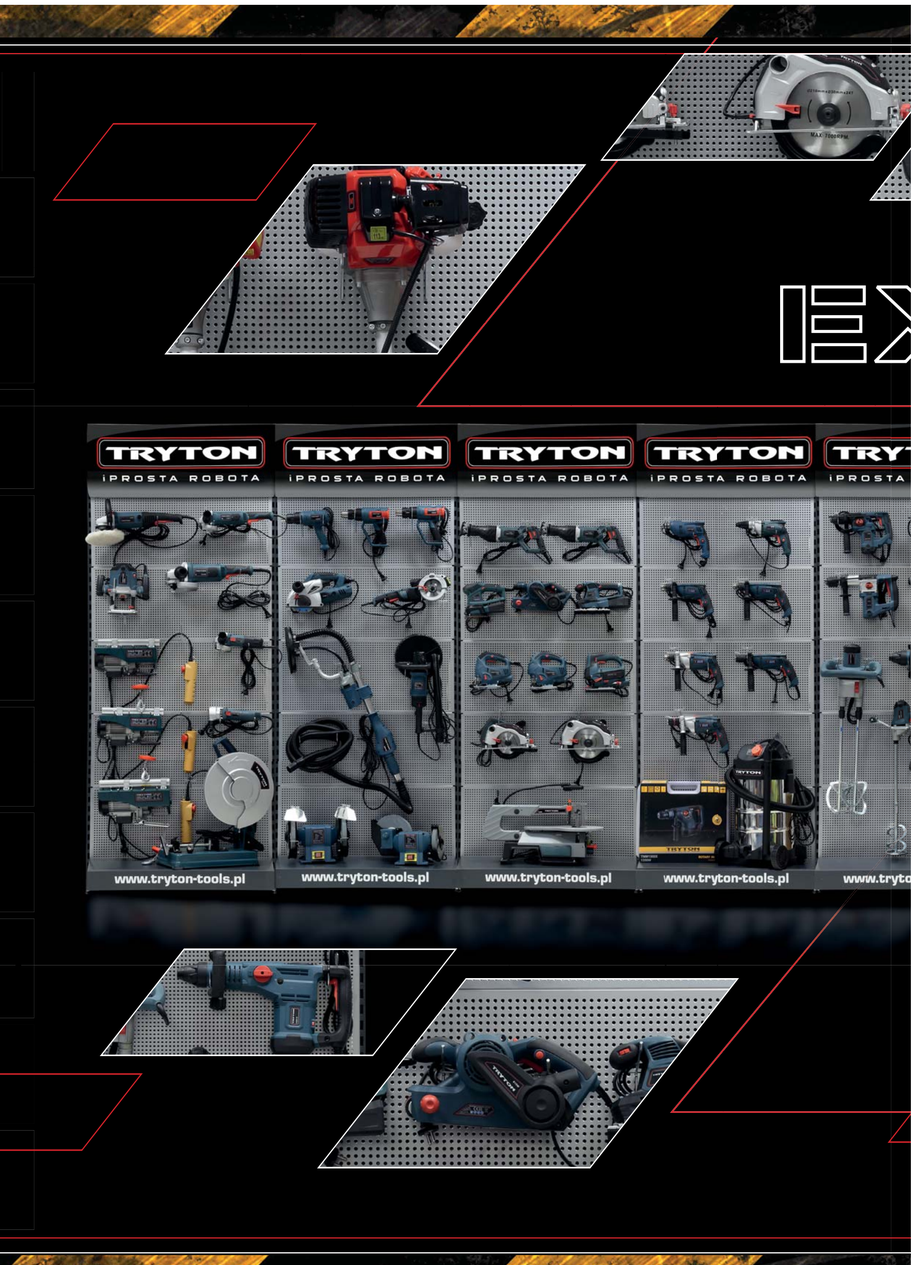
Tryton ist eine Familie von fast 200 Elektrowerkzeugen und Motormaschinen. Dies ist eine Produktlinie für fortgeschrittene Benutzer, die bei ihrer Arbeit ein breites Spektrum an Elektrowerkzeugen benötigen. Tryton wird in Fabriken und Handwerksbetrieben hervorragend zur Unterstützung von Reparatur- und Baupersonal eingesetzt. Die Marke ist seit 2006 auf dem polnischen Markt vertreten.

Tryton-Maschinen basieren auf bewährten Lösungen und hochwertigen Komponenten. Letztere sind so ausgewählt, dass sie einen langen störungsfreien Betrieb zum attraktivsten Preis gewährleisten. In Werkzeugen, die mit der Marke Tryton gekennzeichnet sind, finden wir alle Arten von Annehmlichkeiten, die den Komfort der Arbeit verbessern.

Der große Vorteil der Maschinen von Tryton ist die Gewährleistung eines professionellen Services während des Garantiezeitraums sowie nach dessen Ende. Der Markeninhaber gewährleistet die permanente Verfügbarkeit von Ersatzteilen, die regelmäßige Inspektionen und Aufrüstungen ermöglichen.






TRYTON
iPROSTA ROBOTA
www.tryton-tools.pl


TRYTON
iPROSTA ROBOTA
www.tryton-tools.pl

POWER TOOLS, GARDEN TOOLS



accessories
chain saws
drills
grinders
impact drills
jig saws
mixers
mowers
power generators
pumps
rotary hammers
trimers
vacuum cleaners
and many others...

SYSTEM 20V



ONE BATTERY
COUNTLESS POSSIBILITIES

At least a few combinations. Endless possibilities. And it all starts with one battery that can drive power tools included in the TRYTON System 20V. Drilling, driving, cutting, grinding - one battery and every job becomes more pleasant.

Tools in the TRYTON 20V system offer professional technical parameters. They were designed to assure that the user can work conveniently and to limit effects that reduce work comfort.

SYSTEM 20V



ОДИН АККУМУЛЯТОР МНОГО ВОЗМОЖНОСТЕЙ

По меньшей мере несколько комбинаций. Неограниченные возможности. А все начинается от одного аккумулятора, от которого Вы можете запитать электроинструменты, входящие в состав TRYTON System 20V.

Сверлите, закручиваете, режете, шлифуете - один аккумулятор, и любая работа становится наслаждением.

SYSTEM 20V



EIN AKKU VIELE MÖGLICHKEITEN

Zumindest ein paar Kombinationen. Unbegrenzte Möglichkeiten. Und alles beginnt mit einem Akku, den Sie mit den im TRYTON System 20V enthaltenen Elektrowerkzeugen betreiben können.

Sie bohren, schrauben, schneiden, schleifen - ein Akku und jede Arbeit ist angenehmer.

1 CORDLESS DRILL SYSTEM 20V

• АККУМУЛЯТОРНАЯ ДРЕЛЬ-ШУРУПОВЁРТ SYSTEM 20V • AKKU-BOHRMASCHINE SYSTEM 20V



TJ3LD

TJ15AK

20V d.c. | 25Nm

L R | Ø 10mm | 1-21 | n_1 0-350/min n_2 0-1300/min | 1 x Li-Ion | 3-5h

• 20V, 2 speeds • 21+1 positions of clutch • LED • Keyless chuck 0,8-10 mm

Code	TJV10AL
rated voltage	20V
max. torque	25Nm
speeds	I speed 0-350/min, II speed 0-1300/min
equipment	TJ3LD charger 3-5h, TJ15AK battery Li-ion 1,5 Ah
carton quantities	5

2 CORDLESS DRILL SYSTEM 20V

• АККУМУЛЯТОРНАЯ ДРЕЛЬ-ШУРУПОВЁРТ SYSTEM 20V • AKKU-BOHRMASCHINE SYSTEM 20V



20V d.c. | 25Nm | L R | Ø 10mm | 1-21 | n_1 0-350/min n_2 0-1300/min

• 20V, 2 speeds • 21+1 positions of clutch • LED • Keyless chuck 0,8-10 mm

Code	TJV10
rated voltage	20V
max. torque	25Nm
speeds	I speed 0-350/min, II speed 0-1300/min
equipment	without charger; battery included
carton quantities	5

3 CORDLESS IMPACT DRILL SYSTEM 20V

• АККУМУЛЯТОРНАЯ ДРЕЛЬ-ШУРУПОВЁРТ С УДАРОМ SYSTEM 20V • AKKU-SCHLAGBOHRMASCHINE SYSTEM 20V



20V d.c. | 44Nm | L R | Ø 13mm | 1-21 | n_1 0-400/min n_2 0-1500/min

• 20V • 2 speeds • 21+3 positions of clutch • LED • Keyless chuck 0,8-13mm • Impact

Code	TJV20
rated voltage	20V
max. torque	44Nm
speeds	I speed 0-400/min, II speed 0-1500/min
equipment	without charger; battery included
carton quantities	5



1 CORDLESS ANGLE GRINDER SYSTEM 20V

• АККУМУЛЯТОРНАЯ УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА SYSTEM 20V
• AKKU-WINKELSCHLEIFER SYSTEM 20V

SYSTEM 20V



20V d.c. | ⌀115mm | n0 9000/min | M14 | CE

• 20V • Disc diameter 115mm

Code	TJS40
rated voltage	20V
speeds	8000/min
equipment	without charger; battery included
carton quantities	5

2 CORDLESS JIG SAW SYSTEM 20V

• АККУМУЛЯТОРНЫЙ ЛОБЗИК SYSTEM 20V • AKKU-STICHSÄGE SYSTEM 20V

SYSTEM 20V



20V d.c. | 65mm | 6mm | T (A) | 0-45° | LASER | CE

• 20V • Laser cutting line indicator • Foot adjustment for diagonal cuts
• T blade holder (A) • Pendulum function • Quick chuck system

Code	TJR50
rated voltage	20V
strokes	0-2400/min
max. cutting capacity wood /steel	65/6mm
equipment	without charger; battery included
carton quantities	5

3 CORDLESS CIRCULAR SAW SYSTEM 20V

• АККУМУЛЯТОРНАЯ ЦИРКУЛЯРНАЯ ПИЛА SYSTEM 20V • AKKU-KREISSÄGE SYSTEM 20V

SYSTEM 20V



20V d.c. | ⌀150mm | 48mm | n0 4000/min | LASER | CE

• 20V • Laser cutting line indicator • Foot adjustment for diagonal cuts
• Saws diameter 150 mm

Code	TJP60
rated voltage	20V
No-load speed	4000/min
max. cutting capacity	48mm
equipment	without charger; battery included
carton quantities	2

4 CORDLESS RECIPROCATING SAW SYSTEM 20V

• АККУМУЛЯТОРНАЯ САБЕЛЬНАЯ ПИЛА SYSTEM 20V • AKKU-SÄBELSÄGE SYSTEM 20V

SYSTEM 20V



20V d.c. | 175mm | 12mm | CE

• 20V • Quick blade fixing system • LED support lighting

Code	TJPS70
rated voltage	20V
strokes	0-3000/min
max. cutting capacity wood/steel	175/12mm
equipment	without charger; battery included
carton quantities	5

1 CORDLESS HEDGE TRIMMER SYSTEM 20V

• АККУМУЛЯТОРНЫЕ КУСТОРЕЗЫ SYSTEM 20V • AKKU-HECKENSCHERE SYSTEM 20V

SYSTEM 20V



20V d.c. | 46cm | 22mm | CE

• 20V • Rotating handle

Code	TJD90
rated voltage	20V
cutting bar lengh	460mm
strokes	1400/min
equipment	without charger; battery included
carton quantities	4

2 CORDLESS GARDEN BLOWER 20 V

• АККУМУЛЯТОРНАЯ САДОВАЯ ВОЗДУХОДУВКА SYSTEM 20V • KABELLOSER GARTENBLÄSER 20 V

SYSTEM 20V



20V d.c. | I: 30km/h II: 75km/h | CE

• 20V • 2 speeds

Code	TJE100
rated voltage	20V
air stream speed at the nozzle end	I speed -30km/h, II speed- 75km/h
equipment	without charger; battery included
carton quantities	4



1 CHARGERS FOR LI-ION BATTERY SYSTEM20V

• ЗАРЯДНОЕ УСТРОЙСТВО ДЛЯ АККУМУЛЯТОРНЫХ ИНСТРУМЕНТОВ LI-ION SYSTEM 20V
• LADEGERÄTE FÜR LI-IONEN-AKKU SYSTEM20V

SYSTEM 20V



• Charger SYSTEM 20V

Code	TJ1LD
rated voltage	20V
charging time	1h
carton quantities	20

2 CHARGERS FOR LI-ION BATTERY SYSTEM20V

• ЗАРЯДНОЕ УСТРОЙСТВО ДЛЯ АККУМУЛЯТОРНЫХ ИНСТРУМЕНТОВ LI-ION SYSTEM 20V
• LADEGERÄTE FÜR LI-IONEN-AKKU SYSTEM20V

SYSTEM 20V



• Charger SYSTEM 20V

Code	TJ3LD
rated voltage	20V
charging time	3-5h
carton quantities	50

3 BATTERY LI-ION FOR POWERTOOLS SYSTEM 20V

• АККУМУЛЯТОРЫ LI-ION ДЛЯ АККУМУЛЯТОРНЫХ ИНСТРУМЕНТОВ SYSTEM 20V • AKKU LI-ION FÜR POWERTOOLS SYSTEM 20V

SYSTEM 20V



• Battery SYSTEM 20V

Code	TJ15AK
rated voltage	20V
battery capacity	1,5 Ah
carton quantities	50

4 BATTERY LI-ION FOR POWERTOOLS SYSTEM 20V

• АККУМУЛЯТОР LI-ION ДЛЯ АККУМУЛЯТОРНЫХ ИНСТРУМЕНТОВ SYSTEM 20V
• AKKU LI-ION FÜR POWERTOOLS SYSTEM 20V

SYSTEM 20V



• Battery SYSTEM 20V

Code	TJ2AK
rated voltage	20V
battery capacity	2 Ah
comments	SAMSUNG cells
carton quantities	40

1 CORDLESS DRIVER
• ОТВЕРТКА АККУМУЛЯТОРНАЯ • AKKU-SCHRAUBER



• 9-positioned torque clutch • Two-positioned regulated chuck

Code	**TUV36**
rated voltage	3.6 V
battery type	Li-Ion
battery capacity	1.0 Ah
hexagonal chuck	6.35 mm (1/4")
no-load speed	180/min.
max. torque	3 Nm
equipment	3-hour charger
carton quantities	10

2 CORDLESS DRILL
• АККУМУЛЯТОРНАЯ ДРЕЛЬ-ШУРУПОВЁРТ • AKAKKU-BOHRSCHRAUBER



• Quick action drill chuck • Metal gears • Torch included

Code	**TUV10L**
rated voltage	10.8 V
battery type	Li-Ion
battery capacity	1.3 Ah
handle type	0.8-10 mm
speeds	2
no-load speed	0-400 /0-1500/min.
max. torque	12 Nm
equipment	1-1-h charger, 2 battery Li-Ion 1.3 Ah, torch, accessories, transportation box
carton quantities	5

3 CORDLESS DRILLS
• АККУМУЛЯТОРНЫЕ ДРЕЛИ-ШУРУПОВЕРТЫ • AKKU-BOHRSCHRAUBER



• Keyless chuck 0.8-10 mm • Metal gears • 21+1 clutch positions

Code	**TFV12/TFV18**
rated voltage	12V/ 18V
battery type	Li-Ion
battery capacity	1.5Ah
handle type	0.8-10 mm
speeds	1
no-load speed	0-700/min.
max. torque	15/18 Nm
equipment	3-hour charger, battery Li-Ion 1.5 Ah, transportation box
carton quantities	5

4 CORDLESS DRILL
• АККУМУЛЯТОРНАЯ ДРЕЛЬ-ШУРУПОВЁРТ • AKKU-BOHRSCHRAUBER



• Quick action drill chuck 0.8-10 mm • Metal gears
• 21+1 clutch positions

Code	**TFV18B2**
rated voltage	18 V
battery type	Li-Ion
battery capacity	1.5 Ah
handle type	0.8-10 mm
speeds	2
no-load speed	I speed 0-400/min, II speed 0-1500/min.
max. torque	25 Nm
equipment	3-hour charger, 2 battery Li-Ion 1.5 Ah, transportation box
carton quantities	5

1 CORDLESS DRILLS

• АККУМУЛЯТОРНЫЕ ДРЕЛИ-ШУРУПОВЕРТЫ • AKKKU-BOHRSCHRAUBER



Batteries of increased capacity 2Ah available (EATCV182)

• Two-speed gears • Quick action drill chuck • 15 clutch positions
• Metal gears

Code	TCV18L2
rated voltage	18V
battery capacity	1.5 Ah
quick action drill chuck	0.8-10 mm
speeds	2
no-load speed	I 0-400/min. / II 0-1200/min.
max. torque	28 Nm
equipment	1-1-h charger, accessories, 2 battery Li-Ion 1.5 Ah, transportation box
carton quantities	5

2 DRILL-DRIVER

• ДРЕЛЬ-ШУРУПОВЕРТ СЕТЕВАЯ ДВУХСКОРОСТНАЯ • 2-2-GANG-NETZSCHRAUBBOHRER



230V -50Hz

• Two gears • Metal planet gear (sintered powder metallurgy) • 22 clutch positions • Cord 3 m

Code	TCU300
power	300 W
quick action drill chuck	0.8-10 mm
no-load speed	I 0-550/min. / II 0-2100/min.
max. torque	I -36 Nm II - 23.5 Nm
drilling in steel/aluminum/wood	Ø10/16/20 mm
carton quantities	10

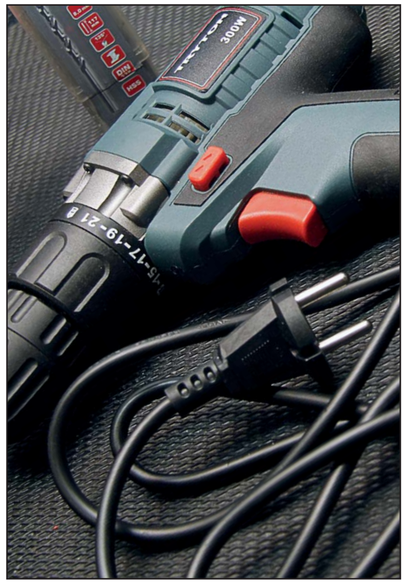
3 IMPACT SCREWDRIVER

• ШУРУПОВЕРТ АККУМУЛЯТОРНЫЙ УДАРНЫЙ • IMPACT SCHRAUBENDREHER



• Torque to 200 Nm • Hexagonal grip 6,35 mm (1/4")
• Battery charge indicator • Metal gears

Code	THV18UL
rated voltage	18 V
battery capacity	1.5 Ah
drill chuck	6.35 mm (1/4")
impact frequency	3000/min.
no-load speed	0-2400/min.
max. torque	200 Nm
equipment	1-1-h charger, 2 battery Li-Ion 1.5 Ah
carton quantities	5



1 ELECTRIC IMPACT WRENCH

• ГАЙКОВЕРТ УДАРНЫЙ ЕЛЕКТРИЧЕСКИЙ • ELEKTRISCHER SCHLAGSCHLÜSSEL



230V -50Hz · 3 m · CE

Code	TKU1000
power	1010W
driver	1/2"
max. torque	450 Nm
no-load speed	2200/min
equipment	4 sockets (17mm, 19mm, 21mm, 22mm), transportation box
carton quantities	4

2 DRYWALL SCREWDRIVER

• ШУРУПОВЕРТ ДЛЯ ГИПСОКАРТОННЫХ ПЛИТ • RIGIPS-SCHRAUBER



GK · 230V -50Hz · 3 m · CE

- Power handheld tool dedicated to the gypsumboard instalation
- Ergonomic and light-weight handheld power tool • Buckle for hanging on working belt

Code	TMGK500
power	500 W
chuck	6.35 mm (1/4")
speeds	1
no-load speed	0-1600/min.
max. torque	12 Nm
max. bit diameter	6 mm
equipment	depth limiter, transportation box
carton quantities	4

3 DRILL

• ДРЕЛЬ БЕЗ УДАРА • BOHRMASCHINE



230V -50Hz · 3 m · CE

- Ball bearings • Light and ergonomic design • Reversing facility

Code	TUW550
power	550 W
max. drilling capcity in steel	10 mm
max. drilling capcity in wood	16 mm
no-load speed	0-3000/min.
equipment	3 m cord, spare engine brushes
carton quantities	10

4 HAMMER DRILLS

• ДРЕЛИ УДАРНЫЕ • SCHLAGBOHRMASCHINEN



230V -50Hz · 3 m · CE

- Ball bearings • Light and ergonomic design • Variable speed
- Reversing facility

Code	TDW550/TDW710
power	550 W/ 710 W
key chuck	13 mm
no-load speed	0-2700/min. / 0-3000/min.
max. drilling capcity in masonry	13 mm
max. drilling capcity in steel	10 mm
max. drilling capcity in wood	24 mm
equipment	auxiliary handle, depth limiter
carton quantities	6

1 HAMMER DRILL

• ДРЕЛЬ УДАРНАЯ • SCHLAGBOHRMASCHINEN





• Ball bearings • Light and ergonomic design • Variable speed
• Reversing facility • Quick action drill chuck

Code	TDW850K
power	850 W
quick action drill chuck	13 mm
no-load speed	0-3000/min.
max. drilling capcity in masonry	13 mm
max. drilling capcity in steel	10 mm
max. drilling capcity in wood	25 mm
equipment	auxiliary handle, depth limiter, transportation box
carton quantities	5

2 HAMMER DRILLS

• ДРЕЛИ УДАРНЫЕ • SCHLAGBOHRMASCHINEN



• Ball bearings • Aluminum gear box • Variable speed
• Reversing facility

Code	TDW1050
power	1050 W
key chuck	13 mm
no-load speed	0-3000/min.
max. drilling capcity in masonry	13 mm
max. drilling capcity in steel	10 mm
max. drilling capcity in wood	25 mm
equipment	auxiliary handle, depth limiter
carton quantities	5

3 POWER DRILL-MIXER

• ДРЕЛЬ-МИКСЕР • BOHRMISCHER



• Rolling bearing (dustproof) • Quenched gears • Lightweight, ergonomic structure • The set includes drill chuck and mixer • Mixer shank M14x2

Code	TMY850
power	850 W
no-load speed	0-500/min.
key chuck	1.5-13 mm
max. mixer diameter	120 mm
carton quantities	4

1 POWER MIXER

• МИКСЕР ДЛЯ КРАСОК И РАСТВОРОВ • LEISTUNGS-MISCHER



230V -50Hz · 3 m

• 2-speed gear • Aluminium gear housing • smooth start up
• Maximum stirrer diameter 120 mm • Stirrer included

Code	**TMX122**
power	1200 W
speeds	2
chuck	M14
no-load speed	0-480/0-800/min.
equipment	stirrer
carton quantities	2

2 POWER TWO SPINDLE MIXER

• МИКСЕР ДВУШПИНДЕЛЬНЫЙ • ZWEISPINDELIGES RÜHRWERK



230V -50Hz · 3 m

• • 2-spindle mixer • 2-speed gear • Aluminum gear housing
• Available stirrers (EATH1652)

Code	**THX1652**
power	1650 W
speeds	2
chuck	quick action
no-load speed	100-420 / 150-600/min.
equipment	stirrer set
carton quantities	2

3 ROTARY HAMMER

• ПЕРФОРАТОР 4 РЕЖИМА SDS+ • SCHLAGBOHRHAMMER



230V -50Hz · 3 m

• SDS plus • 4 functions: drill, impact drill, chiseling, chisel positioning
• hardened impact set and gears

Code	**TMM800**
power	800W
drill chuck	SDS plus
impact power	2.4J
no-load speed	0-850/min
max. drilling capacity in concrete	Ø 26mm
weight	3,9kg
equipment	auxiliary handle, depth limiter
carton quantities	5

4 ROTARY HAMMER

• ПЕРФОРАТОР 4 РЕЖИМА SDS+ • SCHLAGBOHRHAMMER



230V -50Hz · 3 m

• SDS plus • 4 functions: drill, impact drill, chiseling, chisel positioning
• Hardened impact set and gears

Code	**TMM900K**
power	900W
drill chuck	SDS plus
impact power	2.4J
no-load speed	0-850/min
max. drilling capacity in concrete	Ø 26mm
weight	5.1kg
equipment	3 drills, 2 chisels (flat and point), auxiliary handle, depth limiter, transportation box
carton quantities	4

1 ROTARY HAMMER 4 FUNCTIONS SDS+

• ΠΕΡΦΟΡΑΤΟΡ 4 ΡΕΫΚΙΜΑ SDS+ • SCHLAGBOHRHAMMER 4 FUNKTIONEN SDS+



230V -50Hz · 3 m

• Ergonomic • Dust-proof ball bearings • Hardened impact set and gears • Impact drilling • Drilling • Chiseling

Code	TMM710K
power	710 W
chuck	sds-plus
no-load speed	930/min.
impact power	2.6 J
impact frequency	0-5000/min.
max. drilling capcity in concrete	26 mm
max. drilling capcity in steel	13 mm
max. drilling capcity in wood	40 mm
equipment	3 drills, 2 chisels, auxiliary handle, depth limiter, transportation box
carton quantities	4

2 ROTARY HAMMER

• ΠΕΡΦΟΡΑΤΟΡ SDS+ • SCHLAGBOHRHAMMER



230V -50Hz · 3 m

• SDS Plus • 4 functions: drill, impact drill, chiseling, chisel positioning
• Accessories: drils 8, 10, 12 mm, chisels - flat and pointed • Rubber antidust ring

Code	TMM1250
power	1250W
drill chuck	SDS PLUS
impact power	5J
no-load speed	0-850/min
impact frequency	0-4500/min
drilling steel/concrete/wood	Ø13/30/40mm
carton quantities	2

3 ROTARY HAMMER SDS-MAX

• ΠΕΡΦΟΡΑΤΟΡ SDS-MAX • SCHLAGBOHRHAMMER 2 FUNKTIONEN SDS-MAX



230V -50Hz · 3 m

• Overload clutch • Dust-proof ball bearings • Hardened impact set

Code	TMM1050X
power	1050 W
chuck	sds-max
no-load speed	480/min.
impact power	9 J
impact frequency	3750/min.
max. drilling capcity in concrete	38 mm
weight	8 kg
equipment	multiposition auxiliary handle, transportation box
carton quantities	2

4 ROTARY HAMMER

• ΠΕΡΦΟΡΑΤΟΡ SDS-MAX • SCHLAGBOHRHAMMER



230V -50Hz · 3 m

• SDS Max • 3 functions: impact drill, chiseling, chisel positioning
• AVC antiwibration system

Code	TMM1350X
power	1350W
drill chuck	SDS Max
impact power	14J
no-load speed	250-500/min
impact frequency	1900-3000/min
wiercenie w betonie wiertłem (optimum/maximum)	Ø 22/48mm
hole saw drilling capacity in concrete (optimum/maximum)	Ø 40/120mm
weight	7,4kg
carton quantities	1

1 DEMOLITION HAMMER SDS-MAX

• ТЯЖЁЛЫЙ ПЕРФОРАТОР ДЛЯ ДОЛБЛЕНИЯ SDS-MAX • ABBRUCHHAMMER SDS-MAX



230V -50Hz · 3 m

• SDS MAX • Adjustable impact frequency • Bit positioning • Flat and pointed chisel included • Anti-vibration chuck • Additional straight side handle

Code	TMM1600X
chuck	SDS- MAX
power	1600 W
impact power	25 J
impact frequency	1000-2300/min.
weight narzędzia	9.7 kg
weight brutto (+accessories, transportation box)	16 kg
carton quantities	1

2 ANGLE GRINDERS

• УГЛОВЫЕ ШЛИФОВАЛЬНЫЕ МАШИНЫ • WINKELSCHLEIFER



230V -50Hz · 3 m

• Light weight, ergonomic design • Switch with increased dust resistance • Heat treated gears

Code	TDS125A/TDS125B
power	600W/650W
disc diameter	125 mm
no-load speed	11 000/min.
spindle	M14
carton quantities	6

3 ANGLE GRINDER

• УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА • WINKELSCHLEIFER



230V -50Hz · 3 m

• Adjustable rotational speed • Ergonomic design • Switch with increased dust resistance • Heat treated gears

Code	TDS125RK
power	1200W
disc diameter	125 mm
no-load speed	4 000-12 000/min.
spindle	M14
carton quantities	2

4 ANGLE GRINDER

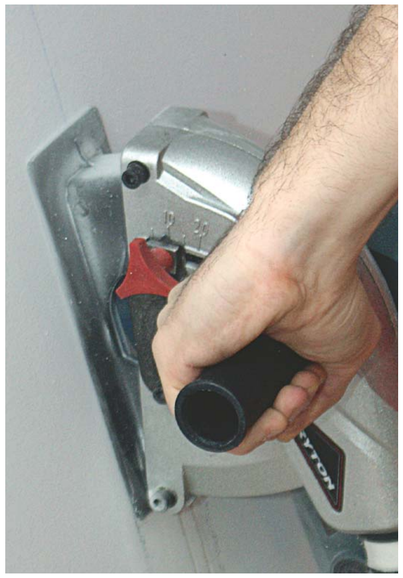
• УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА • WINKELSCHLEIFER



230V -50Hz · 3 m

• Rotary chuck • Ergonomic design • Switch with increased dust resistance • Heat treated gears

Code	TDS230
power	2350 W
disc diameter	230 mm
no-load speed	6 000/min.
spindle	M14
carton quantities	2



2 DRYWALL SANDER

• ШЛИФОВАЛЬНАЯ МАШИНА ДЛЯ СТЕН И ПОТОЛКОВ • WANDSCHLEIFER



230V -50Hz · 4.8 m · CE

• Accessories (EATHZ01): page 621

Code	THZ600
power	600 W
disc diameter	225 mm
no-load speed	1000-2000/min.
spindle	M14
equipment	6 pcs. abrasive sheets, sucking tube - 4m
carton quantities	1

1 WALL CHASER

• ШТРОБОРЕЗ • SCHLITZFRÄSE



230V -50Hz · 3 m · CE

• Dust protection • Adjustable depth and width of work • Ergonomic

Code	TMB1500K
power	1500 W
disc diameter	125 mm
no-load speed	8500/min.
spindle	M14
cutting depth	8 - 30 mm
cutting width	8 - 30 mm
equipment	2 diamond discs, key, mounting flanges, spacers, break-off wedge, transportation box
carton quantities	2

3 DRYWALL SANDER

• ШЛИФОВАЛЬНАЯ МАШИНА ДЛЯ СТЕН • WANDSCHLEIFER



230V -50Hz · 4.8 m · CE

• Accessories (EATHZ01): page 621

Code	THZ800
power	800W
disc diameter	225 mm
no-load speed	1000-2600/min.
spindle	M14
equipment	6 pcs. abrasive sheets, sucking tube - 1,5 m
carton quantities	2

1 FINISHING SANDER

• ПЛОСКОШЛИФОВАЛЬНАЯ МАШИНА • SCHWINGSCHLEIFER



230V -50Hz · 3 m · CE

• Variable speed control • Aluminum grinder foot

Code	**TMC240**
power	240 W
pad size	90 x 187 mm
no-load speed	6000-11000/min.
oscillating frequency	12000-22000/min.
paper mounting	clamps
equipment	paper punch, two abrasive sheets (80, 120), dust box
carton quantities	5

2 FINISHING SANDER

• ПЛОСКОШЛИФОВАЛЬНАЯ МАШИНА • SCHWINGSCHLEIFER



230V -50Hz · 3 m · CE

• Variable speed control • Aluminum grinder foot

Code	**TMC350**
power	350 W
pad size	115 x 230 mm
no-load speed	6000-12000/min.
oscillating frequency	12000-24000/min.
paper mounting	clamps
equipment	paper punch, two abrasive sheets (80, 120), dust box
carton quantities	5

3 ORBITAL SANDER

• ЭКСЦЕНТРИКОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА • EXZENTERSCHLEIFER



230V -50Hz · 3 m · CE

• Variable speed control • Dustproof switch and bearings

Code	**TMO450A**
power	450 W
pad size	Ø 125 mm
no-load speed	6000 - 12000/min.
oscillating frequency	12000 - 24000/min.
paper mounting	velcro
equipment	abrasive sheet, dust box
carton quantities	10

4 BELT SANDERS

• ЛЕНТОЧНЫЕ ШЛИФОВАЛЬНЫЕ МАШИНЫ • BANDSCHLEIFER



230V -50Hz · 3 m · CE

• Powerful motor and high speed of belt move increase the efficiency of this handheld power tool

Code	**TMT810/TMT810K**
power	810 W
belt size	76 x 533 mm
belt speed	380 m/min.
equipment	dust sack, abrasive tape 76 x 533 mm
carton quantities	6/3

1 BENCH GRINDERS

• ВКОМБИНИРОВАННЫЕ ШЛИФОВАЛЬНЫЕ СТАНКИ • TISCHSCHLEIFER



230V -50Hz · 3 m · CE

• Dustproof switch and bearings • Disc for initial and finishing grinding

Code	TS121501/ TS152501/ TS203501
power	150 W/250 W/350 W
abrasive disc diameter	125/ 150/200 mm
disc hole diameter	12.7/ 12.7/ 16 mm
disc thickness: ściernej	16/20/20 mm
no-load speed	2950/min.
equipment	fine grain abrasive disc, coarse grain abrasive disc, anti--splash guards, workpiece support
carton quantities	1

2 WET AND DRY BENCH GRINDER

• КОМБИНИРОВАННЫЙ ТОЧИЛЬНО-ШЛИФОВАЛЬНЫЙ СТАНОК • SCHLEIF- UND SCHÄRFMASCHINE



230V -50Hz · 3 m · CE

• Dustproof switch and bearings • Initial grinding disc and ability to sharpen wet

Code	TS015251
power	250 W
Working diameter: griding disc sharpening disc	150 mm 200 mm
disc hole diameter: griding disc sharpening disc	12.7 mm 20 mm
disc thickness: griding disc sharpening disc	20 mm 40 mm
no-load speed: griding disc sharpening disc	2950/min. 134/min.
equipment	fine grain abrasive disc (for sharpening), coarse grain abrasive disc (for grinding), anti-splash guards, workpiece support
carton quantities	1

3 JIG SAW

• ЛОБЗИК • STICHSÄGE



230V -50Hz · CE

• Quick-chuck system • Pendulum function • Variable speed

Code	TMR570
power	570 W
strokes	0-3000/min.
max. cutting depth wood/aluminum/steel	65/10/8 mm
equipment	parallel guide, blade, vacuum cleaner adapter
carton quantities	5

4 JIG SAW

• ЛОБЗИК • STICHSÄGE



230V -50Hz · CE

• Quick-chuck system • Pendulum function • Variable speed

Code	TMR712K
power	710 W
strokes	0 - 3000/min.
max. cutting depth wood/aluminum/steel	80/12/10 mm
equipment	parallel guide, blade, vacuum cleaner adapter, transportation box
carton quantities	5

1 JIG SAW

• ЛОБЗИК • STICHSÄGE



230V -50Hz · 3 m

- Quick-chuck system • Laser pointer • Pendulum function
- Variable speed • Holder for blades • Manual foot adjustment for diagonal cuts

Code	TMR800K
power	800 W
strokes	800 - 3100/min.
max. cutting depth wood/steel	110/10 mm
equipment	parallel guide, blade, transportation box
carton quantities	5

2 SCROLL SAW

• СТАНОК ЛОБЗИКОВЫЙ • DEKUPIERSÄGE



230V -50Hz · 3 m

- Aluminium worktop • Adjustable number of strokes per minute
- The set includes workspace lights • Tilted worktop
- Accessories (EATWW01, EATWW02, EATWW03): page 620

Code	TWW120
power	120 W
blade length	133 mm (127 mm between the mounting)
no. of strokes per minute	500-1700/min.
max. cutting thickness	57 mm - 90°, 27 mm - 45°
equipment	LED lamp, 2 blades, spanners
carton quantities	1



1 RECIPROCATING SAW
• ПИЛА САБЕЛЬНАЯ • SÄBELSÄGE



230V -50Hz · 3 m · CE

• Adjustable feet extension • Quick-chuck system

Code	TPS750
power	750 W
no-load speed	0-2700/min.
max. cutting depth w drewnie	115 mm
equipment	wood blade, metal blade
carton quantities	6

2 RECIPROCATING SAW
• ПИЛА САБЕЛЬНАЯ • SÄBELSÄGE



230V -50Hz · 3 m · CE

• Rotating handle • LED work area light • Speed controller • Adjustable feet extension • Quick-chuck system

Code	TPS1051
power	1050 W
no-load speed	800-2700/min.
max. cutting depth w drewnie	150 mm
equipment	wood blade, metal blade
carton quantities	6

3 CIRCULAR SAWS
• ДИСКОВЫЕ ПИЛЫ • KREISSÄGEN



230V -50Hz · 3 m · CE

• Sawing machine foot made from aluminium

Code	THP1300/THP1600/THP1800
power	1300 W/1600 W/1800 W
disc diameter	160 mm/185 mm/210 mm
blade hole diameter	16 mm/20 mm/30 mm
no-load speed	4500/5000/5300/min.
max. cutting depth	55 mm/63 mm/75 mm
equipment	Circular saw with 18/24 carbide teeth, parallel guide, and installation key
carton quantities	2

4 ELECTRIC METAL SHEET NIBBLER
• НОЖНИЦЫ ЭЛЕКТРИЧЕСКИЕ ПО МЕТАЛЛУ • ELEKTROBLECHSCHERE



230V -50Hz · 3 m · CE

• For cutting flat, corrugated and trapezoidal steel sheet • Accessories (EATNB01, EATNB02): page 621-622

Code	TNB380K
power	380 W
no. of strokes per minute	1700/min.
max cutting depth in stainless steel	1 mm
max cutting depth in aluminium	1.8 mm
max cutting depth in plastic	2.8 mm
cutting trace width	5 mm
equipment	punches and dies, chuck, spanners, transportation box
carton quantities	5

1 MULTI-FUNCTION SAW

• ОТРЕЗНАЯ МАШИНА МНОГОФУНКЦИОНАЛЬНАЯ • MULTIFUNKTIONSTRENNSÄGE



Cutting wood



Cutting ceramics





Cutting depth adjustment



Laser cutting line indicator



Vacum cleaner connection



Replaceable discs for cutting wood, plastics and ceramics

230V -50Hz

3 m

• For cutting wood, plastic, aluminium, tiles • Laser cutting line indicator • Accessories (EATPW01, EATPW02, EATPW03, EATPW04): page 623

Code	**TPW500K**
power	500 W
disc diameter	54.8 mm
disc opening diameter	111 mm
no-load speed	3900/min.
max. cutting depth	12 mm
equipment	high speed steel saw blade with 30 teeth, carbide circular saw blade with 18 teeth, diamond cutting disc for cutting ceramics, vacuum cleaner connection, spanners, transportation box
carton quantities	4

1 DUAL-BLADE SAW

• ПИЛА ДВУХДИСКОВАЯ • DOPPELKREISSÄGE



Cutting wood and plastics



Supporting foot and guide for longitudinal cutting



Cutting steel and non-ferrous metals





Cutting ceramics and concrete



Replaceable discs for cutting wood, metal, plastics, ceramics and concrete



Vacum cleaner connection

230V -50Hz 3 m

• Cutting wood, steel, plastic and aluminium with a single disc (additional diamond discs must be used for tile cutting) • No reaction • Can be used for cutting in both directionsh • Laser cutting line indicator • Accessories (EATPD01, EATPD02, EATPD03) page 622

Code	**TPD860K**
power	860 W
disc diameter	125 mm
disc opening diameter	23/17 mm
no-load speed	3000-5500/min.
max. cutting depth	25 mm (wood, plastic) 20 mm (stone, tiles - using an additional diamond disc) 5 mm (steel, aluminum)
	double circular saw with 30 carbide teeth, 10 lubricating inserts, supporting foot, parallel cutting guide, key, transportation box
carton quantities	2

1 TILE SAW
• ПЛИТКОРЕЗ • FLIESENSÄGE





230V -50Hz · 3 m · CE

- Dust protection

Code	TG18601
power	600 W
disc diameter	180 mm
disc opening diameter	22.2 mm
no-load speed	2950/min.
max. cutting capacity for 90 degree	25 mm
max. cutting capacity for 45 degree	17 mm
max. cutting lenght	510 mm
equipment	frame stand with legs, coolant tank, coolant pump, angle guide, assembly spanners
carton quantities	1

2 MITRE SAW
• УГЛОТОРЦОВОЧНАЯ ПИЛА • KIPPSÄGE



230V -50Hz · 3 m · CE

- Laser cutting line indicator • The base and bench made from high quality aluminium cast components

Code	TU1450
power	1450 W
disc diameter	210/216 mm
disc opening diameter	30 mm
no-load speed	5000/min.
cutting range (0°/0°)	62 x 340 mm
cutting range (0°/45°)	62 x 240 mm
cutting range (45°/0°)	34 x 340 mm
cutting range (45°/45°)	34 x 240 mm
equipment	clamps for material, circular saw with 24 sintered carbide teeth, assembly key, dust bag
carton quantities	1

3 MITRE SAW
• УГЛОТОРЦОВОЧНАЯ ПИЛА • KIPPSÄGE



230V -50Hz · 3 m · CE

- Laser cutting line indicator • The base and bench made from high quality aluminium cast components

Code	TU1800
power	1800 W
disc diameter	250/255 mm
disc opening diameter	30 mm
no-load speed	4500/min.
cutting range (0°/0°)	70 x 340 mm
cutting range (0°/45°)	70 x 240 mm
cutting range (45°/0°)	40 x 340 mm
cutting range (45°/45°)	40 x 240 mm
equipment	clamps for material, circular saw with 40 sintered carbide teeth, assembly key dust bag
carton quantities	1

1 ELECTRIC PLANER
• РУБАНОК ЭЛЕКТРИЧЕСКИЙ • HOBEL



230V -50Hz · 3 m · CE

• Planing depth control knob

Code	THG600
power	600 W
no-load speed	17000/min.
max. planing depth	2 mm
planing width	82 mm
equipment	double-sided blades, parallel guide, spare drive belt, dust extraction adapter
carton quantities	6

2 ELECTRIC PLANER
• РУБАНОК ЭЛЕКТРИЧЕСКИЙ • HOBEL



230V -50Hz · 3 m · CE

• Powerful engine enables planing up to 3 mm • Forming function
• Planing depth control knob

Code	THG900
power	900 W
no-load speed	16000/min.
max. planing depth	3 mm
planing width	82 mm
equipment	double-sided blades, parallel guide, rabbeting depth limiter, spare drive belt, dust extraction adapter
carton quantities	6

3 ROUTER
• ФРЕЗЕРНАЯ МАШИНА • FRÄSMASCHINE



230V -50Hz · 3 m · CE

Code	TF1201
power	1200 W
clamping bushing size	6-8 mm
no-load speed	11000-30000/min.
clamping bushing size	55 mm
equipment	parallel guide, 6 mm and 8 mm collets, dust extraction adapter
carton quantities	4

4 BISCUIT JOINER
• СТАНОК ДЛЯ ФРЕЗЕРОВАНИЯ ПАЗОВ • NUTFRÄSE



230V -50Hz · 3 m · CE

• Adjustable height, depth and angle of milling • Accessories (EATFR01, EATFR02): page 623

Code	TFR900K
power	900 W
er diameter	100 mm
cutter opening diameter	22 mm
no-load speed	11000/min.
max. milling depth	14 mm
equipment	6-toothed carbide milling cutter, chip bag, vacuum cleaner connection, key, cutters (60 pieces), transportation box
carton quantities	4

1 MULTI-FUNCTION ROUTER

• ФРЕЗЕРНЫЙ ИНСТРУМЕНТ УНИВЕРСАЛЬНЫЙ • MULTIFUNKTIONSFRÄSMASCHINE



Frezowanie



Grinding



Guide for longitudinal cutting



Cutting



Multiposition handle



Cutting, milling and grinding accessories



Vacum cleaner connection

230V -50Hz

3 m

• Offers cutting, milling and grinding • Two-position handle • Accessories (EATFW01, EATFW02, EATFW03, EATFW04): page 622

Code	**TFW150K**
power	150 W
chuck diameter	4.8 mm
no-load speed	8500-25000/min.
body stroke	35 mm
equipment	2 carbide cutting tips, flat cutter, grinding mandrel and 8 grinding belts, edge/spine guide, vacuum cleaner connection, key, transportation box
carton quantities	2

1 VACUUM CLEANER
• ПРОМЫШЛЕННЫЙ ПЫЛЕСОС
• STAUBSAUGER



230V -50Hz · 4 m

- The set includes: universal nozzle, slot nozzle • EPA filter, foam filter, paper bag • Accessories (EATTHK01, EATTHK02, EATTHK03, EATP5, EATP3): page 621

Code	THK20
power	1250 W
displacement volume	20 l
sucking force	13kPa
air flow	58l/s
carton quantities	1

2 VACUUM CLEANER
• ПРОМЫШЛЕННЫЙ ПЫЛЕСОС
• STAUBSAUGER



230V -50Hz · 4 m

- The set includes: universal nozzle, slot nozzle • EPA filter, foam filter, paper bag, paper bag • Accessories (EATTHK01, EATTHK02, EATTHK03, EATP5, EATP3): page 621

Code	THK31G
power	1500 W
displacement volume	30 l
sucking force	18kPa
air flow	58l/s
carton quantities	1

3 ELECTRIC HOISTS
• КАНАТНЫЕ ЛЕБЕДКИ • SEILWINDEN



230V -50Hz

Code	TW2001/ TW3001/ TW4001
power	450 W/550 W/750 W
max. weight: single line double line	 100 kg/150 kg/200 kg 200 kg/300 kg/400 kg
lift height: single line double line	 12 m 6 m
carton quantities	1

4 WORK STATION WITH CLAMP
• РАБОЧЕЕ МЕСТО С ЗАЖИМОМ • ARBEITSPLATZ MIT KLEMME



Code	TSR100
max. weight	100 kg
clamping range	0-420 mm
working position size (DxSxW)	680 (1040) x 900 x 840 mm
transport position size (DxSxW)	750 x 300 x 300 mm
carton quantities	1



2 MULTI-FUNCTION TOOL

• УНИВЕРСАЛЬНЫЙ ОСЦИЛЛИРУЮЩИЙ ИНСТРУМЕНТ • MULTIFUNKTIONSGERÄT



230V -50Hz

- Smooth oscillation setting • Electronic stabilisation of rotations at changing loads • Function for cutting wood, non-ferrous metals, plastics and grinding • Accessories 40 pcs.
- Accessories (93126, 93110, EATM301A) page 238, 621

Code	**TM300**
power	300 W
oscillating frequency	10000-18000/min.
equipment	delta foot, delta sanding sheets, straight saw, semi-circular saw, extended semi-circular saw, coarse file
carton quantities	10

1 CORDLESS IMPACT WRENCH

• УНИВЕРСАЛЬНЫЙ ОСЦИЛЛИРУЮЩИЙ ИНСТРУМЕНТ • KABELLOSER SCHLAGSCHLÜSSEL



230V -50Hz

- Quick chuck system • Variable speed control
- Accessories (EATM301A, EATM301P): page 621

Code	**TM301**
power (W)	280W
oscillating frequency (1/min.)	10 000-23 000/min.
equipment	delta foot 1 pc, delta sanding sheets 4 pcs, straight saw 1 pc, semi-circular saw 1 pc, HSS semi-circular saw 1 pc, coarse file 1 pc, 3 m cord
carton quantities	4

3 MINISZLIFIERKA WIELOFUNKCYJNA

• MINI GRINDER • МИНИ-ШЛИФОВАЛЬНАЯ МУЛЬТИФУНКЦИОНАЛЬНАЯ МАШИНА



230V -50Hz

- Variable speed control • Flexible drive shaft • Accessories 40 pcs.
- Accessories (93171): page 237

Code	**TMG170**
power	170 W
no-load speed	8 000-35 000/min.
equipment	flexible shaft, reduction sleeves, cutting and grinding accessories
carton quantities	10

1 MINI GRINDER

• МИНИ-ШЛИФОВАЛЬНАЯ МУЛЬТИФУНКЦИОНАЛЬНАЯ МАШИНА • MINISCHLEIFGERÄT



Cutting with an abrasive disc



Grinding



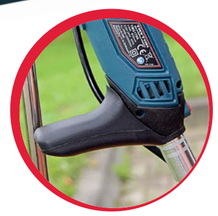
Polishing



Electronic speed control with LCD display



Hanging facility



Auxiliary handle





Milling attachment

230V -50Hz

• Variable speed control • LCD display • Milling attachment • Accessories (93171): page 237

Code	TMG170K
power	170 W
no-load speed	8 000-35 000/min.
equipment	flexible shaft, stand, mounting bracket, reduction sleeves, cutting and grinding accessories
carton quantities	6

1 HEAT GUN
• ПИСТОЛЕТ ГОРЯЧЕГО ВОЗДУХА • HEISSLUFTPISTOLE



230V -50Hz · 3 m · CE

- Cord 3 m • 3 working range • Control method preventing machine overheatingm • For removing paint coatings, forming and welding plastics, shrinking shrink films, softening glue and defrosting water pipes

Code	**THL1800**
power	1800 W
working range	I-50˚C,250l/min; II-450˚C, 250l/min; III-550˚C, 500l/min
carton quantities	8

2 HEAT GUN
• ПИСТОЛЕТ ГОРЯЧЕГО ВОЗДУХА • HEISSLUFTPISTOLE



230V -50Hz · 3 m · CE

- Cord 3m • Smooth, electronic temperature and air flow control
- Control method preventing machine overheatingm • For removing paint coatings, forming and welding plastics, shrinking shrink films, softening glue and defrosting water pipes

Code	**THL2000B**
power	2000 W
working range	I-50˚C,250l/min; II-50-450˚C, 250l/min; III-90-600˚C, 500l/min
carton quantities	8

3 HEAT GUN
• ПИСТОЛЕТ ГОРЯЧЕГО ВОЗДУХА • HEISSLUFTPISTOLE



LCD · 230V -50Hz · 3 m · CE

- Cord 3 m • Smooth, electronic temperature and air flow control
- LCD display • Control method preventing machine overheatingm
- 4 ranges of settings memory • For removing paint coatings, forming and welding plastics, shrinking shrink films, softening glue and defrosting water pipes

Code	**THL2000C**
power	2000W
working range	I-50˚C,250-500l/min; II-50-650˚C, 250-500l/min
carton quantities	8

4 HEAT GUN ACCESSORIES
• ПРИНАДЛЕЖНОСТИ ДЛЯ ПИСТОЛЕТОВ ГОРЯЧЕГО ВОЗДУХА • ZUBEHÖR FÜR HEISSLUFTGEBLÄSE



- Nozzles, 4 items • Scraper, 1 piece

Code	**EATL5**
carton quantities	40

1 ELECTRIC CHAINSAW

• ПИЛА ЦЕПНАЯ ЭЛЕКТРИЧЕСКАЯ • ELEKTRO-KETTENSÄGE



230V -50Hz

- Sawing machine with transverse engine
- Toolless control of chain saw tension

Code	TOC40203
power	2000 W
guide bar	40 cm
chain pitch	3/8"
weight	5 kg
equipment	chain, guide, fixing spanners
carton quantities	2

2 ELECTRIC CHAINSAW

• ПИЛА ЦЕПНАЯ ЭЛЕКТРИЧЕСКАЯ • ELEKTRO-KETTENSÄGE



230V -50Hz

- Sawing machine with lengthwise engine
- Toolless control of chain saw tension

Code	TOC40242
power	2400 W
guide bar	40 cm
chain pitch	3/8"
weight	6 kg
equipment	chain, guide, fixing spanners
carton quantities	2



1 PETROL CHAINSAW
• ЦЕПНАЯ БЕНЗИНОВАЯ ПИЛА • BENZIN-KETTENSÄGE



CE

• Sawing machine for a demanding do-it-yourselfer

Code	TOR45231
engine type	two stroke
displacement volume	45,2 cm^3
max power	1,5 kW (2,1 KM)
guide bar	45 cm
chain pitch	0,325"
weight	4,85 kg
equipment	chain, guide, fixing spanners, container for the fuel mixture
carton quantities	1

2 PETROL CHAINSAW
• ЦЕПНАЯ БЕНЗИНОВАЯ ПИЛА • BENZIN-KETTENSÄGE



CE

• Sawing machine for a demanding do-it-yourselfer

Code	TOR50291
engine type	two stroke
displacement volume	49,2 cm^3
max power	2,1 kW (2,9 KM)
guide bar	50 cm
chain pitch	0,325"
weight	5,4 kg
equipment	chain, guide, fixing spanners, container for the fuel mixture
carton quantities	1

3 PETROL CHAINSAW
• ЦЕПНАЯ БЕНЗИНОВАЯ ПИЛА • BENZIN-KETTENSÄGE



CE

• Sawing machine for a demanding do-it-yourselfer and for professional applications

Code	TOR201P
engine type	two stroke
displacement volume	39,6 cm^3
max power	1,5 kW (2,1 KM)
guide bar	40 cm
chain pitch	3/8"
weight	4.3 kg
equipment	chain, guide, fixing spanners, container for the fuel mixture
carton quantities	1

4 PETROL CHAINSAW
• ЦЕПНАЯ БЕНЗИНОВАЯ ПИЛА • BENZIN-KETTENSÄGE



CE

• Sawing machine for a demanding do-it-yourselfer and for professional applications

Code	TOR241P
engine type	two stroke
displacement volume	45,6 cm^3
max power	1,8 kW (2,5 KM)
guide bar	45 cm
chain pitch	0,325"
weight	4,9 kg
equipment	chain, guide, fixing spanners, container for the fuel mixture
carton quantities	1

1 ELECTRIC HEDGE TRIMMER

• ЭЛЕКТРИЧЕСКИЕ НОЖНИЦЫ ДЛЯ ЖИВОЙ ИЗГОРОДИ • HECKENSCHERE MIT DREHGRIFF



230V -50Hz

• Rotating handle

Code	TOD51501
power	500 W
cutting bar lengh	51 cm
max. cutting thickness	16 mm
weight	2,35 kg
carton quantities	4

2 ELECTRIC HEDGE TRIMMER

• ЭЛЕКТРИЧЕСКИЕ НОЖНИЦЫ ДЛЯ ЖИВОЙ ИЗГОРОДИ • HECKENSCHERE MIT DREHGRIFF



230V -50Hz

• Rotating handle • Quenched blades

Code	TOD61621
power	620 W
cutting bar lengh	61 cm
max. cutting thickness	20 mm
weight	3,85 kg
carton quantities	4



1 GARDEN VACUUM / BLOWER

• ПЫЛЕСОС САДОВЫЙ ДЛЯ УБОРКИ ЛИСТЬЕВ • GARTENSTAUBSAUGER / GEBLÄSE



230V -50Hz

- Convenient switching between the vacuum with grinder and the blower functions • Smooth speed control allow adjustment of blower power to the working conditions

Code	TOE3000
power	3000 W
no-load speed	8000 - 14000 /min.
max. air flow	13.5 m^3/min.
max. airflow speed	275 km/h
weight	4.5 kg
equipment	shoulder strap, 45 litre bag
carton quantities	1

2 GRASS TRIMMER

• ЭЛЕКТРИЧЕСКИЙ ТРИМЕР • GRASTRIMMER



230V -50Hz

- Automatic string extension during „Tap&Go" operation

Code	TOB25301
power	300 W
width of trimming with a string	24 cm
no-load speed	11500/min.
weight	2 kg
carton quantities	6

3 GRASS TRIMMER

• ЭЛЕКТРИЧЕСКИЙ ТРИМЕР • GRASTRIMMER



230V -50Hz

- Adjustable rod length and head position

Code	TOB650
power	650 W
planing width	29 cm
no-load speed	11000/min.
weight	3 kg
carton quantities	4



1 PETROL BRUSH CUTTER

• БЕНЗИНОВАЯ КОСИЛКА • BENZIN-RASENTRIMMER



• Trimmer with two-stroke engine • Divided drive shaft for easier transport and storage

Code	TOP252S
engine type	two stroke
displacement volume	51,7 cm^3
placement volume	1,4 kW (1,9 KM)
width of trimming with a string	44 cm
width of trimming with a blade	25 cm
weight	7,5 kg
equipment	knife, trimmer line head, braces, container for the fuel mixture
carton quantities	1

2 PETROL BRUSH CUTTER

• БЕНЗИНОВАЯ КОСИЛКА • BENZIN-RASENTRIMMER



• Trimmer with four-stroke engine (no need to use a fuel mixture)
• Divided drive shaft for easier transport and storage

Code	TOP431S
engine type	four stroke
displacement volume	31,0 cm^3
placement volume	0,8 kW (1,09 KM)
width of trimming with a string	44 cm
width of trimming with a blade	25 cm
weight	7,6 kg
equipment	knife, trimmer line head, braces
carton quantities	1

3 SUBMERSIBLE PUMP FOR DIRTY AND CLEAN WATER

• НАСОС ПОГРУЖНОЙ ДЛЯ ЧИСТОЙ И ГРЯЗНОЙ ВОДЫ • TAUCHPUMPE FÜR VERSCHMUTZTES UND SAUBERES WASSER



230V -50Hz 10 m

• Three flow settings for clean and dirty water • Powerful motor with copper winding • Float switch

Code	TPB750
power	750 W
max. immersion depth	7 m
max. pumping height	9 m
capacity	13000 l/h
weight	5.4 kg
carton quantities	4

4 SUBMERSIBLE PUMP FOR DIRTY WATER

• НАСОС ПОГРУЖНОЙ ДЛЯ ГРЯЗНОЙ ВОДЫ • TAUCHPUMPE FÜR SCHMUTZWASSER



230V -50Hz 10 m

• Body cover made of stainless steel • Powerful motor with copper winding • Float switch

Code	TPB1100
power	1100 W
max. immersion depth	7 m
max. pumping height	11 m
capacity	15000 l/h
weight	5.8 kg
carton quantities	4

1 PRESSURE WASHERS
• МОЙКИ ВЫСОКОГО ДАВЛЕНИЯ • HOCHDRUCKREINIGER





230V -50Hz · 5 m

• Aluminum pump • AUTO-STOP function

Code	TM16105	TM18135
engine type	brush	brush
power	1650 W	1850 W
maximum pressure	10.5 Mpa (105 bar)	13.5 Mpa (135 bar)
working pressure	7 Mpa (70 bar)	9 Mpa (90 bar)
max. capacity	7.1 l/min.	7.1 l/min.
max. rated capacity	5.7 l/min.	5.7 l/min.
water temperature	5° - 50°C	5° - 50°C
weight	10.5 kg	11 kg
equipment	spray gun, fan lance with flow regulation, lance extension, 5 meter pressure hose	spray gun, fan lance with flow regulation, rotary lance, lance extension, 5 meter pressure hose
carton quantities	1	1

2 PRESSURE WASHER
• МОЙКА ВЫСОКОГО ДАВЛЕНИЯ
• HOCHDRUCKREINIGER



230V -50Hz · 5 m

• Durable inductive engine • Aluminum pump • AUTO-STOP function

Code	TM18165
engine type	inductive
power	1800 W
maximum pressure	16.5 Mpa (165 bar)
working pressure	11 Mpa (110 bar)
max. capacity	6,8 l/min.
max. rated capacity	5.5 l/min.
water temperature	5° - 50°
weight	18 kg
equipment	spray gun, fan lance with flow regulation, rotary lance, lance extension, 5 meter pressure hose
carton quantities	1



1 ELECTRIC LAWN MOWER

• ЭЛЕКТРИЧЕСКАЯ ГАЗОНОКОСИЛКА • ELEKTRO-RASENMÄHER



230V -50Hz

Code	T0A32122
power	1100 W
planing width	32 cm
height regulation	3 steps
cart material	plastic
basket material	plastic
weight	6,8 kg
carton quantities	1

2 ELECTRIC LAWN MOWER

• ЭЛЕКТРИЧЕСКАЯ ГАЗОНОКОСИЛКА • ELEKTRO-RASENMÄHER



230V -50Hz

Code	T0A38141
power	1400 W
planing width	38 cm
height regulation	3 steps
cart material	plastic
basket material	plastic
weight	8,7 kg
carton quantities	1

3 SELF PROPELLED PETROL LAWN MOWER

• ГАЗОНОКОСИЛКА БЕНЗИНОВАЯ САМОХОДНАЯ • BENZIN-RASENMÄHER MIT ANTRIEB



• 3-in-1 mower with a drive • Wheels with bearings • High-quality gearing

Code	T0K4642B
engine	Briggs&Stratton series 500E
displacement volume	140 cm^3
max. torque	6,8 Nm
planing width	46 cm
height regulation	central (25 - 90 mm)
wheel size	front 7" / rear 8"
functions	discharge to the basket, side discharge, mulching
basket material	textil
basket displacement volume	60 l
weight	30 kg
carton quantities	1

4 SELF PROPELLED PETROL LAWN MOWER

• ГАЗОНОКОСИЛКА БЕНЗИНОВАЯ САМОХОДНАЯ • BENZIN-RASENMÄHER MIT ANTRIEB



• 3-in-1 mower with a drive • Wheels with bearings • High-quality gearing

Code	T0K5362B
engine	Briggs&Stratton 750EX Ready Start series
displacement volume	161 cm^3
max. torque	9,5 Nm
planing width	53 cm
height regulation	central (25 - 80 mm)
wheel size	front 8" / rear 9,5"
functions	discharge to the basket, side discharge, mulching
basket material	plastic/textil
basket displacement volume	65 l
weight	37 kg
carton quantities	1

1 SELF PROPELLED PETROL LAWN MOWER

• ГАЗОНОКОСИЛКА БЕНЗИНОВАЯ САМОХОДНАЯ • BENZIN-RASENMÄHER MIT ANTRIEB



• 3-in-1 mower with a drive • Wheels with bearings • High-quality gearing

Code	TOK4633C
engine type	four stroke, overhead valve
displacement volume	139 cm³
max power	1,5 kW (2,1 KM)
planing width	46 cm
height regulation	central (25 - 90 mm)
wheel size	front 7" / rear 8"
functions	discharge to the basket, side discharge, mulching
basket material	textil
basket displacement volume	60 l
weight	33,5 kg
carton quantities	1

2 SELF PROPELLED PETROL LAWN MOWER

• ГАЗОНОКОСИЛКА БЕНЗИНОВАЯ САМОХОДНАЯ • BENZIN-RASENMÄHER MIT ANTRIEB



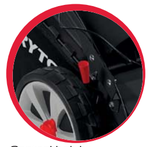
•4-in-1 mower with a drive • Additional back discharge • Wheels with bearings • High-quality gearing

Code	TOK5152B
engine	Briggs&Stratton 625E Ready Start series
displacement volume	150 cm³
max. torque	8,5 Nm
planing width	51 cm
height regulation	central (20 - 75 mm)
wheel size	front 8" / rear 9,5"
functions	discharge to the basket, side discharge, back discharge, mulching
basket material	plastic/textil
basket displacement volume	65 l
weight	35 kg
carton quantities	1

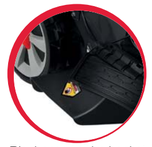
3 SELF PROPELLED PETROL LAWN MOWER

• ГАЗОНОКОСИЛКА БЕНЗИНОВАЯ САМОХОДНАЯ • BENZIN-RASENMÄHER MIT ANTRIEB





Central height adjustment



Discharge to the basket, side discharge, back discharge, mulching



Auxiliary handle for carrying



Electronic engine start

•Electronic starter • 4-in-1 mower with a drive • Additional back discharge • Wheels with bearings • Large rear wheels • High-quality gearing

Code	TOK5362I
engine	Briggs&Stratton 775IS Instart series
displacement volume	161 cm³
max. torque	9,5 Nm
planing width	53 cm
height regulation	central (15 - 80 mm)
wheel size	front 8" / rear 12"
functions	discharge to the basket, side discharge, back discharge, mulching
basket material	plastic/textil
basket displacement volume	65 l
weight	40 kg
carton quantities	1

1 PETROL POWER GENERATOR

• ГЕНЕРАТОР ЭЛЕКТРИЧЕСКОГО ТОКА • BENZIN-STROMERZEUGER



- AVR voltage stabilization system • *Folded handles and transport wheels (model TOG2000K)

Code	TOG2000 / TOG2000K*
Engine	
model	168F
type	four stroke
placement volume	163 cm^3
max power / no-load speed	5.5 kW / 3000/min
fuel tank	15 l
Generartor	
placement volume	2,0 kW
max power	2,2 kW
outputs:	2 x 230V
	1 x 12V
AVR system	yes
maximum working time with a single tank top-up	10,6 h
weight	35 kg/37 kg
carton quantities	1

2 PETROL POWER GENERATOR

• ГЕНЕРАТОР ЭЛЕКТРИЧЕСКОГО ТОКА • BENZIN-STROMERZEUGER



- Supplying devices with 230V (single-phase) and 400V (three-phase) voltage • Copper generator winding • AVR voltage stabilization system
- Folded handles and transport wheels

Code	TOG5000K
Engine	
model	188F
type	four stroke
placement volume	389 cm^3
max power / no-load speed	8 kW / 3600/min
fuel tank	25 l
Generator (three-phase)	
placement volume	5,0 kW
max power	5,5 kW
outputs:	1 x 400V
	2 x 230V
	1 x 12V
AVR system	tak
maximum working time with a single tank top-up	8,2 h
weight	83 kg
carton quantities	1



1 GARDEN MACHINERY OILS

• СМАЗКИ ДЛЯ САДОВОЙ ТЕХНИКИ • ÖLE FÜR GARTENGERÄTE



1l

SAPP: Can be mixed with other oils for chain saw guides, based on mineral and vegetable oils
VISCOSITY PN-EN-ISO 3104:2004 - 70-90 mm²/
SA2T: API TC, JASO FC, ISO EGC. Semi-synthetic oil for lubricating 2-stroke combustion engines - lubricated with a mixture system
VISCOSITY PN-EN-ISO 3104:2004 - 9.0 - 11.0 mm²/s
SA4T: API SG/CD Oil for 4-stroke engines in gardening equipment
LVISCOSITY TO SAE - 30

Code	Used	
SAPP	saw guides	12
SA2T	2 stroke engines	12
SA4T	4 stroke engines	12

2 DRILL CHUCKS

• ПАТРОНЫ СВЕРЛИЛЬНЫЕ • BOHRFUTTER



- Spindle 1/2 UNF
- EATM3UWB, EATM4UWB: Automatic LOCK-SYSTEM to prevent the handle from getting loose during the work
- EATM4UWB: for impact drills

Code	**EAVM1UWK**
range	1.5-13
type	key
Code	**EATM2UWB**
range	1.5-13
type	quick action
Code	**EATM3UWB**
range	1.5-13
type	quick coupling with a lock
Code	**EATM4UWB**
range	1.5 - 13
type	quick coupling with a lock, full-metal
carton quantities	5/50

3 DRILL CHUCK KEYS

• КЛЮЧИ ДЛЯ СВЕРИЛЬНЫХ ПАТРОНОВ • SCHLÜSSEL FÜR BOHRFUTTER



HRC 45±12 | 10, 11 | 6/8/10/13

- Made from high-quality materials, hardness 45HRC • Designed for the most popular drills with a key chuck • For chuck 6/8/10mm - 11 teeth, for chuck 10/13mm - 11 teeth, for chuck 13mm - 10 teeth

Code	Length (mm)		
31388	6/8/10 mm - 11 teeth	x	24/96
31389	10/13 mm - 11 teeth	x	24/96
31390	13 mm - 10 teeth	x	24/96

4 VICE FOR BENCH DRILLS

• ТИСКИ ДЛЯ НАСТОЛЬНО-СВЕРИЛЬНЫХ СТАНКОВ
• SCHRAUBSTOCK FÜR TISCHBOHRMASCHINEN



EATWS01 - dedicated to drill TWS350
EATWS02 - dedicated to drill k TWS500, TWS550

Code	Jaw width (mm)	BOX	
EATWS01	65	x	10
EATWS02	80	x	10

5 SCROLL SAW BLADES FOR TWW120

• ПОЛОТНА ПИЛЬНЫЕ ДЛЯ ЛОБЗИКОВОГО СТАНКА TWW120
• DEKUPIERSÄGEBLÄTTER FÜR TWW120



- Length 133 mm (127 mm between the mounting)

Code	Quantity (pcs.)	Tooth quantity/cal		
EATWW01	3	10	x	12/120
EATWW02	3	18	x	12/120
EATWW03	3	24	x	12/120



1 ACCESSORIE SET FOR MULTIFUNCTION TOOLS

• ПРИНАДЛЕЖНОСТИ ДЛЯ УНИВЕРСАЛЬНОГО ОСЦИЛЛИРУЮЩЕГО ИНСТРУМЕНТА (НАПР. TM301, TM300)
• ZUBEHÖRSET FÜR MULTIFUNKTIONSWERKZEUGE



• Straight saw 1 pc • Semi-circular saw 1 pc
• Delta foot 1 pc • Coarse file 1 pc • Semi-circular saw

Code		
EATM301A	x	40

2 SAND SHEETS „DELTA“ FOR MULTI-FUNCTION TOOL (EX. TM300,TM301) AND FINISHING SANDERS

• БУМАГА НАЖДАЧНАЯ DELTA ДЛЯ УНИВЕРСАЛЬНОГО ОСЦИЛЛИРУЮЩЕГО ИНСТРУМЕНТА (НАПР. TM300, TM301) И ОСЦИЛЛЯЦИОННЫХ ШЛИФОВАЛЬНЫХ МАШИН • SANDPLATTEN „DELTA“ FÜR MULTIFUNKTIONSWERKZEUG (EX. TM300, TM301) UND BEARBEITUNGSSCHLEIFER



• 10 pcs. (granulation 2x80, 2x120, 3x180, 3x240)

Code		
EATM301P	x	60

3 SAND DISCS

• ШЛИФОВАЛЬНЫЕ КРУГИ • SANDSCHEIBEN



• For THZ600 i THZ800 • Ø 225 mm
• Granulation: 80/100/120/150/180/240
• 6 pcs.

Code	
EATHZ01	100

4 EPA FILTER

• EPA-ФИЛЬТР • EPA-FILTER



• Dedicated to vacuum cleaner THK31G

Code	
EATTHK02	1

5 EPA FILTER

• EPA-ФИЛЬТР • EPA-FILTER



• Dedicated to vacuum cleaner THK20

Code	
EATTHK09	1

6 SPONGE FILTER

• ГУБЧАТЫЙ ФИЛЬТР • SCHWAMMFILTER



• Dedicated to vacuum cleaner THK31G

Code	
EATTHK03	1

7 SPONGE FILTER

• ГУБЧАТЫЙ ФИЛЬТР • SCHWAMMFILTER



• Dedicated to vacuum cleaner THK20

Code	
EATTHK10	1

8 PAPER DUST BAG

• БУМАЖНЫЕ ПАКЕТЫ • PAPIERSTAUBBEUTEL



• Dedicated to vacuum cleaner THK31G, THK20 • 5 pcs.

Code		
EATTHK01	x	40

9 PAPER DUST BAG

• БУМАЖНЫЕ ПАКЕТЫ • PAPIERSTAUBBEUTEL



• Dedicated to vacuum cleaner THK31G, THK20
• 5 pcs.

Code	
EATP5	13

10 FLEECE DUST BAG

• ФЛИЗЕЛИНОВЫЕ ПАКЕТЫ • VLIESSTAUBBEUTEL



• Dedicated to vacuum cleaner THK31G, THK20 • High tear resistance • Very good air flow even with a full bag

Code	
EATP3	20

11 CUTTER BLADE AND HOLDER FOR METAL SHEET NIBBLER TNB380K

• ПУАНСОН И МАТРИЦА ДЛЯ ПЛОСКИХ И ТРАПЕЦИЕВИДНЫХ МЕТАЛЛИЧЕСКИХ ЛИСТОВ – ДЛЯ ЭЛЕКТРИЧЕСКИХ НОЖНИЦ ПО МЕТАЛЛУ TNB380K • STEMPEL UND MATRIZE FÜR FLACH - UND TRAPEZBLECHE FÜR ELEKTROBLECHSCHERE TNB380K



Code		
EATNB01	x	500

1 CUTTER BLADE AND HOLDER FOR METAL SHEET NIBBLER TNB380K

• ПУАНСОН И МАТРИЦА ДЛЯ ПЛОСКИХ И ПРОФИЛИРОВАННЫХ МЕТАЛЛИЧЕСКИХ ЛИСТОВ – ДЛЯ ЭЛЕКТРИЧЕСКИХ НОЖНИЦ ПО МЕТАЛЛУ TNB380K • STEMPEL UND MATRIZE FÜR WELLEN - UND TRAPEZBLECHE FÜR ELEKTROBLECHSCHERE TNB380K



Code		
EATNB02	x	250

2 CUTTING -SAW FOR DUAL-BLADE SAW TPD860K

• ДИСК ОТРЕЗНЫЙ ДЛЯ ДВУХДИСКОВОЙ ПИЛЫ TPD860K
• SÄGEBLÄTTER FÜR DOPPELKREISSÄGE TPD860K



• Diameter 125 mm

Code		
EATPD01	x	20

3 DIAMOND DISC FOR DUAL-BLADE SAW TPD860K

• ДИСК АЛМАЗНЫЙ ДЛЯ ДВУХДИСКОВОЙ ПИЛЫ TPD860K
• DIAMANTSÄGEBLÄTTER FÜR DOPPELKREISSÄGE TPD860K 125X30MM

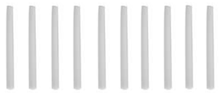


• Diameter 125 mm

Code		
EATPD02	x	20

4 LUBRICATE STICKS FOR DUALBLADE SAW TPD860K

• ВКЛАДЫШИ СМАЗОЧНЫЕ ДЛЯ ДВУХДИСКОВОЙ ПИЛЫ TPD860K – 10 ШТ • POPOLIERPAD FÜR WINKELSCHLEIFER -POLIERER TSP710K



• 10 pcs.

Code		
EATPD03	x	100



5 CUTTING AND MILLING SET FOR MULTI-FUNCTION ROUTER TFW150K

• КОМПЛЕКТ ДЛЯ РЕЗКИ И ФРЕЗЕРОВАНИЯ – ДЛЯ МНОГОФУНКЦИОНАЛЬНОГО ФРЕЗЕРНОГО СТАНКА TFW150K
• SCHNEID -FRÄS -SATZ FÜR MULTIFUNKTIONSFRÄSE TFW150K



• 2 cutting drills • 2 cutters for flatpatterns

Code		
EATFW01	x	50

6 SANDING SET FOR MULTI-FUNCTION ROUTER TFW150K

• КОМПЛЕКТ ДЛЯ ШЛИФОВКИ ДЛЯ МНОГОФУНКЦИОНАЛЬНОГО ФРЕЗЕРНОГО СТАНКА TFW150K • SCHLEIFSATZ FÜR MULTIFUNKTIONSFRÄSE TFR150K



• 25 pcs.
• Mandrel and grinding tape P40/60/80/100/120/180/220/240

Code		
EATFW02	x	30

7 ZESTAW SZLIFUJĄCY DO FREZARKI WIELOFUNKCYJNEJ TFW150K

• SANDING SET FOR MULTI-FUNCTION ROUTER TFW150K
• КОМПЛЕКТ ДЛЯ ШЛИФОВКИ ДЛЯ МНОГОФУНКЦИОНАЛЬНОГО ФРЕЗЕРНОГО СТАНКА TFW150K



• 20 pcs.
• Grinding tapes 5x P40/60/80/100

Code		
EATFW03	x	30

8 SANDING SET FOR MULTI-FUNCTION ROUTER TFW150K

• КОМПЛЕКТ ДЛЯ ШЛИФОВКИ ДЛЯ МНОГОФУНКЦИОНАЛЬНОГО ФРЕЗЕРНОГО СТАНКА TFW150K • SCHLEIFSATZ FÜR MULTIFUNKTIONSFRÄSE TFR150K



• 20 pcs.
• Grinding tapes 5x P120/180/220/240

Code		
EATFW04	x	30

1 SET OF CUTTING SAWS FOR MULTI-FUNCTION SAW TPW500K

- НАБОР ОТРЕЗНЫХ ДИСКОВ ИЗ БЫСТРОРЕЖУЩЕЙ СТАЛИ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW500K
- HSS-SÄGEBLATTSATZ FÜR MULTIFUNKTIONSTRENNSÄGE TPW500K



• 3 pcs. • 54.8 x 11.1 mm

Code		
EATPW01	x	100

5 SET OF CUTTING SAWS FOR MULTI-FUNCTION SAW TPW500K

- НАБОР ОТРЕЗНЫХ ДИСКОВ ИЗ ТВЕРДЫХ СПЛАВОВ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW500K
- HARTMETALL -SÄGEBLATTSATZ FÜR MULTIFUNKTIONSTRENN-SÄGE TPW500K



• 3 pcs. • 54.8 x 11.1 mm

Code		
EATPW02	x	100

9 SET OF DIAMOND DISCS FOR MULTI-FUNCTION SAW TPW500K

- НАБОР АЛМАЗНЫХ ДИСКОВ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW500K
- DIDIAMENTSÄGEBLATTSATZ FÜR MULTIFUNKTIONSTRENNSÄGE TPW500K



• 3 pcs. • 54.8 x 11.1 mm

Code		
EATPW03	x	100

2 SET OF CUTTING SAWS FOR MULTIFUNCTION SAW TPW500K

- НАБОР ДИСКОВ «MIX » ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW500K
- SÄGEBLATTSATZ MIX FÜR MULTIFUNKTIONSTRENNSÄGE TPW500K



• 3 pcs. • 54.8 x 11.1 mm

Code		
EATPW04	x	100

6 SET OF CUTTING SAWS FOR MULTI-FUNCTION SAW TPW600K

- НАБОР ОТРЕЗНЫХ ДИСКОВ ИЗ БЫСТРОРЕЖУЩЕЙ СТАЛИ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW600K
- HSHSS-SÄGEBLATTSATZ FÜR MULTIFUNKTIONSTRENNSÄGE TPW600K



• 3 pcs. • 89 x 10 mm • Suits Dexter tools

Code		
EATPW05	x	50

10 SET OF CUTTING SAWS FOR MULTI-FUNCTION SAW TPW600K

- НАБОР ОТРЕЗНЫХ ДИСКОВ ИЗ ТВЕРДЫХ СПЛАВОВ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW600K
- HARTMETALL -SÄGEBLATTSATZ FÜR MULTIFUNKTIONSTRENN-SÄGE TPW600KKI



• 3 pcs. • 89 x 10 mm • Suits Dexter tools

Code		
EATPW06	x	50

3 SET OF DIAMOND DISCS FOR MULTI-FUNCTION SAW TPW600K

- НАБОР АЛМАЗНЫХ ДИСКОВ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW600K
- DIAMENTSÄGEBLATTSATZ FÜR MULTIFUNKTIONSTRENNSÄGE TPW600K

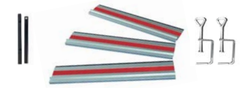


• 3 pcs. • 89 x 10 mm • Suits Dexter tools

Code		
EATPW07	x	50

7 RACK FOR MULTI-FUNCTION SAW TPW600K

- РЕЙКА НАПРАВЛЯЮЩАЯ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW600K
- FÜHRUNGSLEISTE FÜR MULTIFUNKTIONSTRENNSÄGE TPW600K



• Full length 126 mm (3 x 42 mm), 2 fittings, 2 clamps

Code		
EATPW09	x	10

11 BLADE FOR BISCUIT JOINER TFR900K

- ФРЕЗА ДЛЯ СТАНКА ДЛЯ ФРЕЗЕРОВАНИЯ ПАЗОВ TFR900K
- FRÄSER FÜR NUTFÄSE TFR900K



• 100 x 22 x 4 mm • Suits Bass, Bosh, DeWalt, Einhell, Erbauer, Fern, Makita, Meec, Meister, Virutex tools

Code		
EATFR01	x	100

4 SET OF CUTTING SAWS FOR MULTI-FUNCTION SAW TPW600K

- НАБОР ДИСКОВ «MIX » ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW600K
- SÄGEBLATTSATZ MIX FÜR MULTIFUNKTIONSTRENNSÄGE TPW500K



• 3 pcs. • 89 x 10 mm • Suits Dexter tools

Code		
EATPW08	x	50

8 MITER-BASE FOR MULTI-FUNCTION SAW TPW600K

- УГЛОВАЯ НАПРАВЛЯЮЩАЯ ДЛЯ МНОГОФУНКЦИОНАЛЬНОЙ ОТРЕЗНОЙ МАШИНЫ TPW600K



• 415 mm

Code		
EATPW10	x	10

12 BISCUITS FOR BISCUIT JOINER TFR900K

- КОМПЛЕКТ ЛАМЕЛЕЙ ДЛЯ СТАНКА ДЛЯ ФРЕЗЕРОВАНИЯ ПАЗОВ TFR900K
- LAMELLENSATZ FÜR NUTFÄSE TFR900K



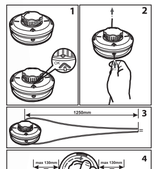
• 60 pcs. (20 x #0, 20 x #10, 20x #20)

Code		
EATFR02	x	50

1 TRIMMING HEAD

• РЕЖУЩАЯ ГОЛОВКА • TRIMMERKOPF



Reinforced construction that fits most cutter/trimmer models on the market • Easy-Load system - string replacement without the need to disassemble the head • Automatic string extension during "Tap&Go" operation

Code	EATOP01
mounting	left thread M10 x 1,25
String diameter	from 1,5 mm to 3,0 mm
starting string	round Ø 2,7 mm (2,5 m)
carton quantities	20 / 40

2 PETROL TRIMMER BLADES

• РЕЖУЩИЕ НОЖИ ДЛЯ БЕНЗИНОВЫХ КОСИЛОК • BENZIN-TRIMMER-KLINGEN



YTOP25N1



YTOP25N2



YTOP25N3

- Adapted to fit the TRYTON TOP252S and TOP431S hedge trimmers and other models available on the market with a standard 25.4mm mounting

Code	Tooth quantity	
YTOP25N1	3	1
YTOP25N2	2	1
YTOP25N3	40	1

3 PETROL TRIMMER AIR FILTER

• ВОЗДУШНЫЕ ФИЛЬТРЫ ДЛЯ БЕНЗИНОВЫХ КОСИЛОК • BENZIN-TRIMMER-LUFTFILTER



YTOP25FL



YTOP43FL

Code	Trimmer model	
YTOP25FL	TOP252S	1
YTOP43FL	TOP431S	1

4 PETROL TRIMMER SPARK PLUGS

• СВЕЧИ ДЛЯ БЕНЗИНОВЫХ КОСИЛОК • BENZIN-TRIMMER--ZÜNDKERZEN



YTOPSZ01



YTOP43SW

Code	Trimmer model	
YTOPSZ01	TOP252S	1
YTOP43SW	TOP431S	1

5 PETROL TRIMMER HARNESS

• РЕМНИ ДЛЯ БЕНЗИНОВЫХ КОСИЛОК • BENZIN-TRIMMER-GURT



YTOP25S1



YTOP25S2

- Pasują do kos spalinowych TRYTON TOP252S i TOP431S oraz innych modeli dostępnych na rynku

Code	Type	
YTOP25S1	2-arm braces	1
YTOP25S2	1-arm belt	1

6 CHAINSAW GUIDE BAR

• НАПРАВЛЯЮЩИЕ ШИНЫ ДЛЯ ЦЕПНЫХ ПИЛ • KETTENSÄGEN--FÜHRUNGSSCHIENE



Code	Length (cm)	Chainsaw model	
YTOR02PW	45	TOR4945S, TOR45231	1
YTOR03PW	50	TOR50291	1
YTOR4163	40	TOR201P	1
YTOR5194	45	TOR241P	1
YTOC0391	40	TOC40203	1

7 CHAINSAW CHAINS

• ЦЕПИ ДЛЯ ЦЕПНЫХ ПИЛ • KETTENSÄGEKETTEN



Code	Chainsaw model	
SNTTOR45	TOR4945S, TOR45231	1
SNTTOR50	TOR50291	1
YTOR4162	TOR201P	1
YTOR5193	TOR241P	1
YTOC0392	TOC40203	1

1 CHAINSAW AIR FILTERS

• ВОЗДУШНЫЕ ФИЛЬТРЫ ДЛЯ ЦЕПНЫХ ПИЛ • KETTENSÄGEN-LUFTFILTER



YTOR5067



YTOR02FL



YTOR03FL

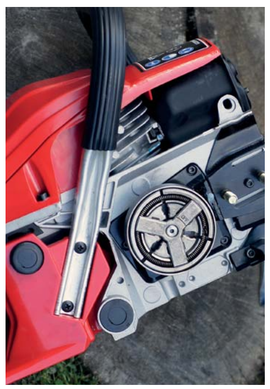


YTOR4004



YTOR5067

Code	Chainsaw model	
YTOR5067	TOR4945S	1
YTOR02FL	TOR45231	1
YTOR03FL	TOR50291	1
YTOR4004	TOR201P	1
YTOR5067	TOR241P	1



2 CHAINSAW SPARK PLUGS

• СВЕЧИ ЗАЖИГАНИЯ ДЛЯ ЦЕПНЫХ ПИЛ • KETTENSÄGEN-ZÜND-KERZEN



Code	Chainsaw model	
YTOR02SW	TOR4945S, TOR45231, TOR50291	1
YTOR4038	TOR201P, TOR241P	1

3 BLADES FOR HEDGE TRIMMERS

• РЕЖУЩИЕ НОЖИ ДЛЯ НОЖНИЦ ДЛЯ ЖИВОЙ ИЗГОРОДИ
• KLINGEN FÜR HECKENSCHNEIDER



Code	Trimmer model	
YTODO304	TOD51501	1
YTODO305	TOD51501	1
YTODO206	TOD61621	1
YTODO207	TOD61621	1

4 BLADES FOR LAWN MOWERS

• РЕЖУЩИЕ НОЖИ ДЛЯ ГАЗОНОКОСИЛОК
• KLINGEN FÜR RASENMÄHER



Code	Length (cm)	Washer model	
YTOK0866	46	TOK4632C, TOK4633C, TOK4642B	1
YTOK0558	51	TOK5152B	1
YTOK0732	53	TOK5362B, TOK5362	1
YTOA0330	32	TOA32122	1
YTOA0430	38	TOA38141	1

5 AIR FILTERS FOR PETROL LAWN MOWERS

• ВОЗДУШНЫЕ ФИЛЬТРЫ ДЛЯ БЕНЗИНОВЫХ ГАЗОНОКОСИЛОК
• LUFTFILTER FÜR BENZINRASENMÄHER



Code	Mower model	
YZ1E0905	TOK4632C, TOK4633C	1
YBS750FP	TOK5362B, TOK5362	1

1 SPARK PLUGS FOR PETROL LAWN MOWERS

• СВЕЧИ ЗАЖИГАНИЯ ДЛЯ ГАЗОНОВЫХ БЕНЗОКОСИЛОК
• ZÜNDKERZEN FÜR BENZIN-RASENMÄHER



Code	Mower model	
YZ1E0106	TOK4632C, TOK4633C	1
SNT013	TOK4642B, TOK5152B, TOK5362B, TOK53621	1

2 NOZZLES FOR PRESSURE WASHERS

•ПИСТОЛЕТЫ ДЛЯ МОЕК ВЫСОКОГО ДАВЛЕНИЯ
• DÜSEN FÜR DRUCKREINIGER



Code	Washer model	
EATM01	TM16105, TM18135, TM18165	1
EAVM01	VM1650	1

3 EXTENSIONS FOR PRESSURE WASHERS

• УДЛИНИТЕЛИ ДЛЯ МОЕК ВЫСОКОГО ДАВЛЕНИЯ
• DÜSEN FÜR DRUCKREINIGER



Code	Washer model	
EATM02	TM16105, TM18135, TM18165	1
EAVM02	VM1650	1

4 LANCES FOR PRESSURE WASHERS

• ШТАНГИ ДЛЯ МОЕК ВЫСОКОГО ДАВЛЕНИЯ
• DÜSEN FÜR DRUCKREINIGER



EATM03



EATM04



EAVM03



EAVM04

Code	Typee	Washer model	
EATM03	1 fan	TM16105, TM18135, TM18165	1
EATM04	1 rotary	TM16105, TM18135, TM18165	1
EAVM03	1 fan	VM1650	1
EAVM08	8-rotary	VM1650	1

5 HOSES FOR PRESSURE WASHERS

• ШЛАНГИ ДЛЯ МОЕК ВЫСОКОГО ДАВЛЕНИЯ • SCHLÄUCHE FÜR DRUCKREINIGER



Code	Length (m)	Washer model	
EATM06	5	TM16105, TM18135, TM18165	1
EAVM04	5	VM1650	1

6 BRUSHES FOR PRESSURE WASHERS

• ЩЕТКИ ДЛЯ МОЕК ВЫСОКОГО ДАВЛЕНИЯ • BÜRSTEN FÜR DRUCKREINIGER



EAVM06



EAVM07

Code	Typee	Washer model	
EAVM06	gerade	TM16105, TM18135, TM18165, VM1650	1
EAVM07	rotary	TM16105, TM18135, TM18165, VM1650	1

7 TERRACE WASHING ATTACHMENT FOR PRESSURE WASHERS

• НАСАДКА ДЛЯ МЫТЬЯ ТЕРРАС ДЛЯ МОЕК ВЫСОКОГО ДАВЛЕНИЯ • TERRASSEN-WASCH-AUFSATZ



Code	Washer model	
EATM05	TM16105, TM18135, TM18165, VM1650	1

8 DETERGENT CONTAINER FOR PRESSURE WASHERS

• ЕМКОСТЬ ДЛЯ МОЮЩЕГО СРЕДСТВА ДЛЯ МОЕК ВЫСОКОГО ДАВЛЕНИЯ • WASCHMITTELBEHÄLTER



Code	Washer model	
EAVM05	VM1650	1

VULCAN
concept



Vulcan Concept is a range of amateur power tools, i.e. tools primarily intended for DIYers and hobbyists. People who want to do repairs and upgrades by themselves in their free time.

Vulcan Concept machines are designed and use components that allow great usability. Vulcan Concept Power Tools offer all the functionality of professional machines, but are not recommended for commercial work. They can cope with them, but the components used will wear out faster.

Consumers often choose Vulcan Concept solutions and they have a great reputation on the market. All machines come with professional warranty and post-warranty services. The brand's owner ensures permanent access to consumables and spare parts.

Vulcan Concept is a sensible investment in equipment for every workshop.

Vulcan Concept - это линия электроинструментов любительского класса, предназначенных прежде всего для тех, кто любит помастерить на уровне хобби. Для людей, которые в свободное время хотят самостоятельно выполнять ремонты и модернизации.

Конструкция устройств Vulcan Concept, как и использованные в них подузлы, позволяют получать удовольствие от их высокой и разнообразной функциональности. Устройства Power Tools Vulcan Concept имеют все удобные приспособления, используемые в машинах профессионального класса, однако, они не рекомендуются к использованию в коммерческих работах. Могут их выполнять, но используемые подузлы в этом случае быстрее изнашиваются.

Решения Vulcan Concept очень охотно выбирает потребитель и они пользуются на рынке большим успехом. Все машины обеспечены профессиональным гарантийным и послегарантийным сервисным обслуживанием. Владелец марки гарантирует постоянный доступ к эксплуатационным и запчастям.

Vulcan Concept - это разумная инвестиция в эквипмент любой мастерской.

Bei Vulcan Concept handelt es sich um eine Reihe von Amateur-Elektrowerkzeugen, d. h. Maschinen, die hauptsächlich für Heimwerker und Bastler gedacht sind. Menschen, die in ihrer Freizeit gerne selbständig reparieren und modernisieren wollen.

Das Design der Vulcan Concept Maschinen
und die verwendeten Komponenten ermöglichen eine hohe Benutzerfreundlichkeit. Die Vulcan Concept Power Tools verfügen über alle Einrichtungen, die in professionellen Maschinen verwendet werden. Sie werden jedoch nicht für gewerbliche Zwecke empfohlen. Sie können damit umgehen, aber die verwendeten Komponenten unterliegen einem schnelleren Verschleiß.

Vulcan Concept ist eine von den Verbrauchern sehr gerngesehene Lösung und genießt einen hervorragenden Ruf auf dem Markt. Alle Maschinen verfügen über einen professionellen Garantie- und Nachgarantie-Service. Der Markeninhaber gewährleistet den permanenten Zugriff auf Verbrauchsmaterialien und Ersatzteile.

Vulcan Concept ist eine sinnvolle Investition
in die Ausstattung jeder Werkstatt.



POWER TOOLS



angle grinders
circular saws
drills
hammer drills
heat guns
high pressure washers
jig saws
planers
pumps

1 CORDLESS DRILLS

• АККУМУЛЯТОРНЫЕ ДРЕЛИ-ШУРУПОВЕРТЫ • KABELLOSE BOHRER



• Keyless chuck • Metal gears • 21+1 positions of clutch

Code	VZV12C/VZV18C
battery voltage	12V/18V
battery capacity	1.3 Ah
chuck	0.8-10 mm
speeds	1
no-load speed	0-700/min.
max. torque	12/18 Nm
equipment	3-hour charger, battery Li-Ion 1.3 Ah
carton quantities	5

2 CORDLESS DRILL

• АККУМУЛЯТОРНАЯ ДРЕЛЬ-ШУРУПОВЁРТ • AKKU -BOHRSCHRAUBER



• Keyless chuck • Metal gears
• 21+1 positions of clutch

Code	VZV18C2
battery voltage	18 V
battery capacity	1.3 Ah
chuck	0.8-10 mm
speeds	2
no-load speed	I bieg 0-400/min, II bieg 0-1500/min.
max. torque	25 Nm
equipment	3-hour charger, 2 batteries Li-Ion 1.3 Ah
carton quantities	5

3 DRILL

• СЕТЕВАЯ ДРЕЛЬ-ШУРУПОВЕРТ • NETZSCHRAUBBOHRER



230V -50Hz

• For DIY purposes • Orbital gear box provides smooth torque
• Ergonomic compact construction and light weight

Code	VZU240
input power	240 W
chuck	10 mm
speeds	1
no-load speed	0-800/min.
max. torque	22 Nm
max. bit diameter	6 mm
carton quantities	10

4 HAMMER DRILLS

• ДРЕЛИ УДАРНЫЕ • SCHLAGBOHRMASCHINEN



230V -50Hz

• Ball bearings • Light and ergonomic design
• Forward/reverse • Key chuck 1.5-13mm

Code	VZW501/VZW601
input power	500 W/600 W
no-load speed	0-2900/0-3000/min.
max. drilling capacity in concrete	13 mm
max. drilling capacity in steel	10 mm
max. drilling capacity in wood	20 mm
carton quantities	10

1 HAMMER DRILLS
• ДРЕЛИ УДАРНЫЕ • SCHLAGBOHRMASCHINEN



230V -50Hz

• Ball bearings • Light and ergonomic design
• Forward/reverse • Key chuck

Code	VZW711/VZW801
input power	710 W/800 W
no-load speed	0-2900/0-3000/min.
max. drilling capacity in concrete	13 mm
max. drilling capacity in steel	10 mm
max. drilling capacity in wood	20 mm
carton quantities	10

2 ROTARY HAMMER DRILL
• ПЕРФОРАТОР SDS-PLUS • SCHLAGBOHRHAMMER SDS-PLUS



230V -50Hz

• Dust-proof ball bearings • Hardened impact set and gears • Impact drilling • Drilling

Code	VZM650
input power	650 W
chuck	sds-plus
no-load speed	0-1600/min.
impact	1.8 J
impact rate	0-5625/min.
max. drilling capacity in concrete	18 mm
max. drilling capacity in steel	13 mm
max. drilling capacity in wood	20 mm
equipment	additional handle, depth limiter
carton quantities	5

3 ROTARY HAMMER DRILL
• ПЕРФОРАТОР SDS-PLUS • SCHLAGBOHRHAMMER SDS-PLUS



230V -50Hz 3 m

• Dust-proof ball bearings • Hardened impact set and gears • Impact drilling • Drilling

Code	VZM700
input power	700 W
chuck	sds-plus
no-load speed	0-1600/min.
impact	1.8 J
impact rate	0-5625/min.
max. drilling capacity in concrete	18 mm
max. drilling capacity in steel	13 mm
max. drilling capacity in wood	20 mm
equipment	3 bits, tradycyjny uchwyt wiertarski z adapterem, additional handle, depth limiter, kufer transportowy
carton quantities	4

4 ANGLE GRINDERS
• УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА • WINKELSCHLEIFER



230V -50Hz

• Hardened gears • Ergonomic compact construction and light weight

Code	VZS125B
input power	630 W
disc diameter	125 mm
no-load speed	12 000/min.
spindle	M14
equipment	protective disc guard, fixing spanner; kołnierze mocujące tarczę
carton quantities	6

1 ANGLE GRINDER
• УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА • WINKELSCHLEIFER



230V -50Hz

• Light and ergonomic design • Switch with increased dust resistance
Hardened gears

Code	VZS125C
input power	710 W
disc diameter	125 mm
no-load speed	11 000/min.
spindle	M14
carton quantities	6

2 ANGLE GRINDER
• УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА • WINKELSCHLEIFER



230V -50Hz

• Adjustable rotation speed • Light and ergonomic design
• Switch with increased dust resistance • Hardened gears

Code	VZS125D
input power	1010 W
disc diameter	125 mm
no-load speed	4 000-11 000/min.
spindle	M14
carton quantities	6

3 ANGLE GRINDER
• УГЛОВАЯ ШЛИФОВАЛЬНАЯ МАШИНА • WINKELSCHLEIFER



230V -50Hz

• Easy start • Rotating handle • Switch with increased dust resistance
• Hardened gears

Code	VZS230
input power	2350 W
disc diameter	230 mm
no-load speed	6000/min.
spindle	M14
carton quantities	2

4 HEAT GUN
• ПИСТОЛЕТ ГОРЯЧЕГО ВОЗДУХА • HEISSLUFTGEBLÄSE FÜR LACKE



230V -50Hz 3 m

• 2 speeds • For removing paint coatings, forming and welding plastics,
shrinking shrink films, softening glue and defrosting water pipes

Code	VML20068
input power	2000 W
working temperature	400/600°C
air flow	350/500 l/min.
carton quantities	8

1 FINISHING SANDER

• ПЛОСКОШЛИФОВАЛЬНАЯ МАШИНА • SCHWINGSCHLEIFER





230V -50Hz

Code	VZ0180
input power	180 W
pad size	90 x 187 mm
no-load speed	12000/min.
orbital speed	24000/min.
paper mounting	clamps
equipment	two abrasive sheets (80, 120), dust bag
carton quantities	10

2 ELECTRIC PLANER

• РУБАНОК ЭЛЕКТРИЧЕСКИЙ • ELEKTROHOBEL



230V -50Hz 3 m

• Rebating function • Accurate planing depth regulation

Code	VMG601
input power	600 W
no-load speed	16000/min.
max. planing depth	2 mm
planing width	82 mm
equipment	double sided blades, parallel guide ruler, rebathing depth guide, dust extractor adapter
carton quantities	6

3 JIG SAW

• ЛОБЗИК ЭЛЕКТРИЧЕСКИЙ • SCHWEIFSÄGE



230V -50Hz

• Universal quick clamp

Code	VZR402
input power	400 W
rates / min.	3300/min.
max. cutting depth in wood/aluminum/steel	55/6/6 mm
carton quantities	10

1 CIRCULAR SAW
• ЦИРКУЛЯРНАЯ ПИЛА • KREISSÄGE



230V -50Hz

Code	VZP1300
input power	1300 W
disc diameter	160 mm
blade hole diameter	20 mm
no-load speed	4700/min.
max. cutting depth	55 mm
equipment	disc saw with 18 sintered carbide teeth, parallel guide ruler
carton quantities	4

2 CIRCULAR SAW
• ЦИРКУЛЯРНАЯ ПИЛА • KREISSÄGE



230V -50Hz

• Laser cut line guide

Code	VZP1500
input power	1500 W
disc diameter	185 mm
blade hole diameter	20 mm
no-load speed	4700/min.
max. cutting depth	65 mm
equipment	disc saw with 24 sintered carbide teeth, parallel guide ruler
carton quantities	4

3 MITRE SAW
• УГЛОТОРЦОВОЧНАЯ ПИЛА • KIPPSÄGE



230V -50Hz

• Aluminium base

Code	VU1400
input power	1400 W
disc diameter	210 mm
blade hole diameter	30 mm
no-load speed	5000/min.
cutting range (0°/0°)	50x120 mm
cutting range (0°/45°)	50x80 mm
cutting range (45°/0°)	30x120 mm
cutting range (45°/45°)	30x80 mm
equipment	disc saw with 24 sintered carbide teeth, material clamp, dust bag, side supports, keys
carton quantities	1

4 TILE SAW
• ПЛИТКОРЕЗ ЭЛЕКТРИЧЕСКИЙ, НАСТОЛЬНЫЙ • FLIESENSÄGE



230V -50Hz

• Dust protection • Large cutting range and high mobility

Code	VG18601
input power	600 W
disc diameter	180 mm
blade hole diameter	22.2 mm
no-load speed	2950/min.
max. cutting depth for 90 degree	35 mm
max. cutting depth for 45 degree	20 mm
lenght of cut material	360 mm
equipment	diamond disc, parallel guide ruler, angle guide ruler, fixing spanner
carton quantities	1

1 BENCH GRINDERS

• КОМБИНИРОВАННЫЕ ШЛИФОВАЛЬНЫЕ СТАНКИ • TISCHSCHLEIFER



230V -50Hz

• Dust-proof switch and bearings • Rough and finishing grinding discs

Code	VS121301/VS152001
input power	150 W/200 W
abrasive disc diameter	125 mm/150 mm
disc hole diameter	12.7 mm
abrasive disc thickness	16 mm
no-load speed	2950/min.
equipment	tarcza ścierna z drobnym ziarnem, tarcza ścierna z grubym ziarnem, protective shields, supports
carton quantities	1

2 SUBMERSIBLE PUMP FOR DIRTY WATER

• ПОГРУЖНОЙ НАСОС ДЛЯ ГРЯЗНОЙ ВОДЫ • TAUCHPUMPE MIT SCHWIMMSCHALTER



230V -50Hz 10 m

• Float switch

Code	VPB400
input power	400 W
max depth	5 m
max. ponor	5 m
input powernost	7500 l/h
weight	4.3 kg
carton quantities	4

3 SUBMERSIBLE PUMP FOR DIRTY WATER

• ПОГРУЖНОЙ НАСОС ДЛЯ ГРЯЗНОЙ ВОДЫ • TAUCHPUMPE MIT SCHWIMMSCHALTER



230V -50Hz 10 m

• Wyłącznik pływakowy

Code	VPB750
input power	750 W
max depth	7 m
max. ponor	9 m
input powernost	13000 l/h
weight	5.4 kg
carton quantities	4

4 HIGH PRESSURE WASHER

• МОЙКА ВЫСОКОГО ДАВЛЕНИЯ • HOCHDRUCKREINIGER



230V -50Hz 5 m

• Aluminum pump • Light weight • Auto-STOP function

Code	VM1650
input power	1650 W
maximum pressure	10.5 Mpa
max. input powernost	5.7 l/min.
water temperature	5° - 50°
weight	6.5 kg
equipment	spray gun, fan lance with flow regulation, lance extension, cleaning agent container, 5 meter pressure hose
carton quantities	1

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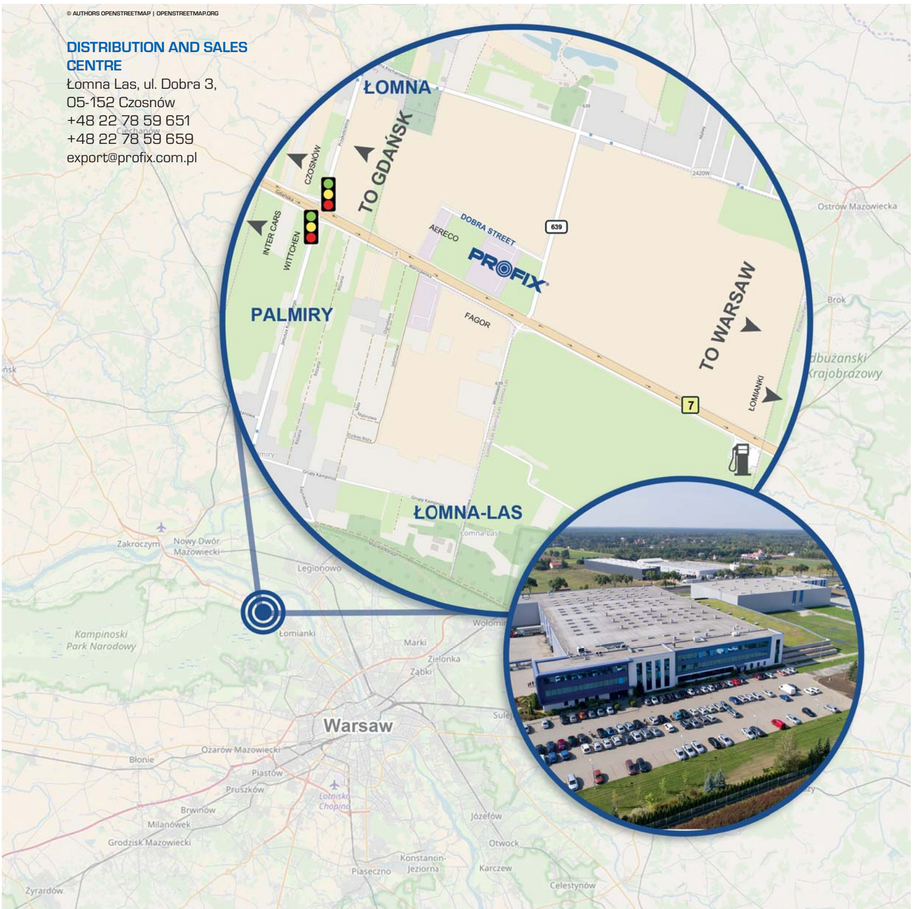
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