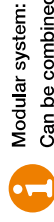
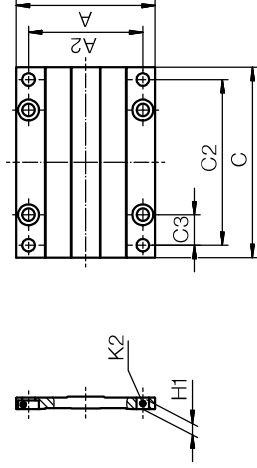




With four pillow blocks and the mounting plate, a linear carriage can be installed in less than a minute. Mounting plates are available in 3 lengths in each installation size and width.

- Robust corrosion-resistant anodised aluminium
- A variety of combinations of liners/bearings/slide plates are possible, also with manual clamp
- Required combination bearing and mounting plate also available pre-assembled



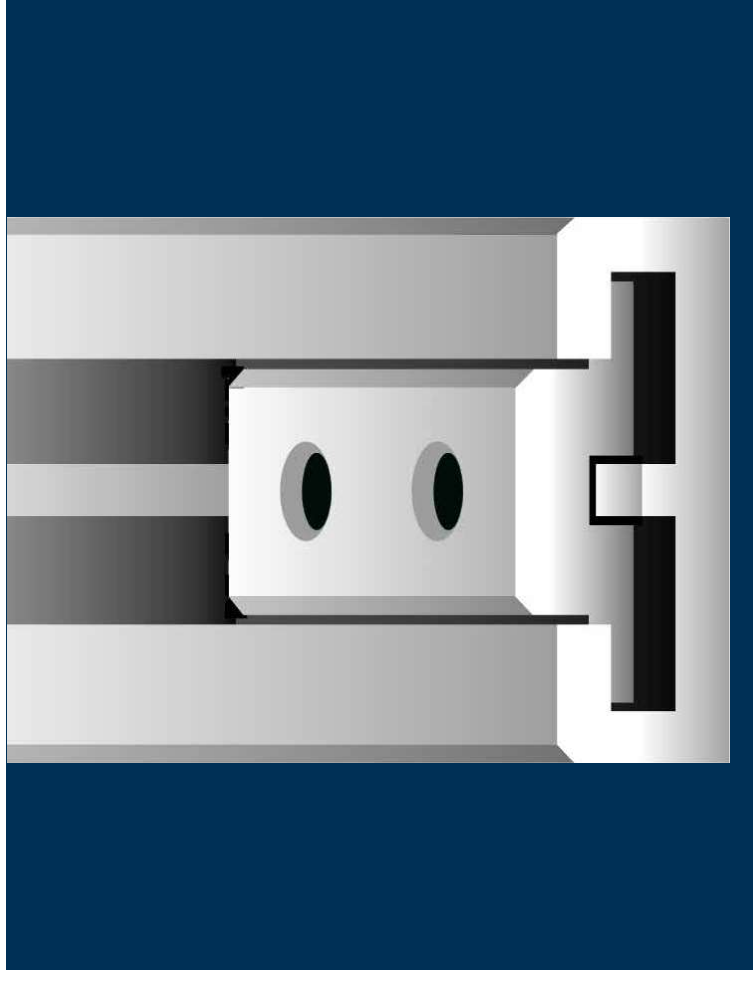
Modular system:
Can be combined with the complete drylin® linear bearing product range. 4 screws included in delivery.

Technical data and dimensions [mm]

Part No.	C	A	H1	A2	K2	Mounting screws included
WWY-06-30-06-AL New	60	54	4,0	45	M4	M4
WWY-06-30-08-AL New	80	54	4,0	45	M4	M4
WWY-06-30-10-AL New	100	54	4,0	45	M4	M4
WWY-06-60-06-AL New	60	85	4,0	76	M4	M4
WWY-06-60-08-AL New	80	85	4,0	76	M4	M4
WWY-06-60-10-AL New	100	85	4,0	76	M4	M4
WWY-10-30-08-AL New	80	63	6,5	50	M6	M6
WWY-10-30-10-AL New	100	63	6,5	50	M6	M6
WWY-10-30-15-AL New	150	63	6,5	50	M6	M6
WWY-10-40-10-AL New	100	73	6,5	60	M6	M6
WWY-10-40-15-AL New	150	73	6,5	60	M6	M6
WWY-10-40-20-AL New	200	73	6,5	60	M6	M6
WWY-10-80-10-AL New	100	107	6,5	94	M6	M6
WWY-10-80-15-AL New	150	107	6,5	94	M6	M6
WWY-10-80-20-AL New	200	107	6,5	94	M6	M6
WWY-10-120-10-AL New	100	153	6,5	140	M6	M6
WWY-10-120-15-AL New	150	153	6,5	140	M6	M6
WWY-10-120-20-AL New	200	153	6,5	140	M6	M6
WWY-16-60-10-AL New	100	104	8,5	86	M8	M8
WWY-16-60-15-AL New	150	104	8,5	86	M8	M8
WWY-16-60-20-AL New	200	104	8,5	86	M8	M8
WWY-20-80-15-AL New	150	134	8,5	116	M8	M8
WWY-20-80-20-AL New	200	134	8,5	116	M8	M8
WWY-20-80-25-AL New	250	134	8,5	116	M8	M8
WWY-25-120-15-AL New	150	195	10,0	173	M10	M10
WWY-25-120-20-AL New	200	195	10,0	173	M10	M10
WWY-25-120-25-AL New	250	195	10,0	173	M10	M10

Suitable for rails ► Page 986, 987, 988, 989, 992, 993

Suitable for bearings ► Page 976, 980, 982, 983, 984



drylin® linear technology – drylin® N low-profile linear guides

Low profile and lightweight

Lubrication-free **dry-tech®** sliding elements

Anodised aluminium rail

High speed and acceleration possible

Quiet operation



Lubrication-free low-profile linear guides – drylin® N

The low-profile range drylin® N offers extremely low profiles in several widths. Like all drylin® products the carriages run without lubrication in an anodised aluminium profile. The selected materials and the unique design make drylin® N a cost-effective and flexible guide system.

- Low profile between 6 and 12mm
- Lightweight
- Many carriage options – also with pre-load
- Maintenance-free dry operation
- Corrosion-free
- Low wear with low coefficient of friction
- Silver or black-anodised rails

Typical application areas

- Agricultural machinery
- Automotive
- Medical technology
- Facade construction
- Packaging industry



Available from stock

Detailed information about delivery time online.



Price breaks online

No minimum order value. No minimum order quantity.



Max. +90°C

Min. –40°C



17mm – 80mm



Service life calculation

► www.igus-asean.com/drylin-expert



Cleanroom certified

IPA Fraunhofer



Free from toxins

2011/65/EU (RoHS)



ESD-compatible

(electrostatic discharge)



Guide rails

- Four installation sizes: 17, 27, 40 and 80mm
- Low profile, lightweight design
- Clear anodised (silver) or black anodised surfaces

► [From page 1034](#)



Guide carriage – installation size 17

- Solid plastic made from high-performance polymer iglidur® J
- Compact for the smallest installation spaces
- Length of carriage up to 40mm

► [Page 1035](#)



Guide carriage – installation size 27

- Carriage with changeable sliding elements
- Sliding carriages with captive overmoulded sliding elements
- Variable lengths and screw on options

► [Page 1037](#)



Guide carriage – installation size 40

- Carriage with thread pin or plain hole
- Pre-load version available

► [Page 1039](#)

Guide carriage – installation size 80

- Carriage with wide load-bearing surface
- Lubrication-free due to high-performance polymers iglidur® J/J200
- Low profile design due to threaded holes

► [Page 1041](#)

Telescopic system

- Continuous lengths up to 1,200mm (total extension)
- Available with partial, total or overextension
- With locking mechanism if required

► [Page 1050](#)



Pre-load prism slides

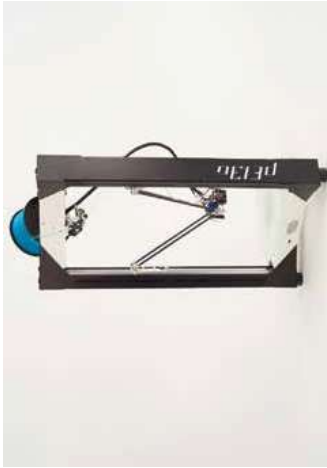
- Easy positioning of carriage
- Four pre-load classes
- Guaranteed drive force and holding force
- Extremely lightweight low-profile

► [From page 1042](#)



Based on drylin® N

drylin® SLN miniature linear module
► [From page 1417](#)



The most important decision criterion for drylin® N low-profile linear guides is the low installation height as this makes it possible to achieve a maximum load.



drylin® N low-profile linear guides and drylin® SD lead screw drives perform the height adjustments. As a black-anodised profile, drylin® N blends into the design of the 3D printer.



In the redesigning of the table guidance for this automated teller, the focus was on a ready-to-install, cost-effective, durable and lubrication-free bearing and system.



The quiet, lubrication-free, low-profile design of drylin® N made it the ideal solution and enabled it to fulfil all relevant safety requirements. The rails could be connected to the desired length.



The removal unit is moved along the X-Y axis using the space-saving and cost-saving drylin® N low-profile linear guide. The robust drylin® T guide system undertakes the vertical guidance.



The sampling device uses drylin® linear plain bearings to remove the products precisely and smoothly.

Expert for linear guides: System selection & service life calculation with CAD
Configure and calculate the service life of linear bearings – constantly expanded by new sizes and products

Easily calculate the service life of your required linear guide and configure with a few clicks. Select a drylin® system and add the relevant environmental parameters. Select the bearing size, carriage, number and position. Then enter the distance between the rails and the mounting. Define more relevant parameter of the guidance and select a rail length. The results are displayed.



► www.igus-asean.com/drylin-expert



Download the online tool
app now

Download on the
App Store

drylin® CAD configurator: Generate complete 3D models for drylin® linear technology according to your specifications

The igus® CAD online configurator gives you the ability to design and save your linear guide as a system, individual components directly as a 3D model in all commonly used formats, or to have these sent by e-mail – free of charge and without registration.



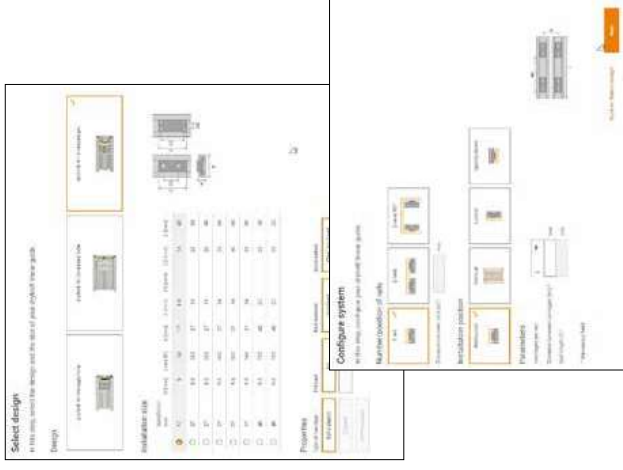
► www.igus-asean.com/drylin-CAD

More information about the products can be found in the igus® download area

- Assembly instructions
- Assembly videos
- System design
- Catalogues



► www.igus-asean.com/downloads





NW-...	NW-... LLZ	NW-... LLY	NW-... LLYZ	Floating bearing	NW-17	NW-27	NW-40	NW-80
LLZ	Floating bearing in z-direction			LLY	0.6	0.45	0.4	0.6
LLY	Floating bearing in y-direction			LLZ	0.5	0.8	0.8	0.8
LLZ	Floating bearing in yz-direction			LLYZ	Y: 0.6 Z: 0.5	Y: 0.3 Z: 0.4	Y: 0.4 Z: 0.8	Y: 0.6 Z: 0.8

 Technical details on floating bearings ► Page 963
The 2:1 Rule ► Page 963

Technical options for drylin® low-profile linear guides

Clip-on sliding elements

Depending on the installation size, up to three lubrication-free sliding elements made from the high-performance polymer iglidur® J are clipped on around the zinc die-casting carriage body. These can be changed any time simply and fast, the zinc die-casting carriage can be reused. A set of appropriate sliding elements is available for every clip-on carriage (Part No. NEK... ► Page 1048).

Pre-load function

The use of sliding elements with an integrated spring pre-load function prevents the carriages in the rail profile from rattling. Adjustment occurs silently using the pre-load principle, making the guide suitable for use in noise-sensitive environments such as the automotive, medical or furniture sectors. Pre-load increases the displacement force by max. 10N.

Overmoulded sliding elements

With this carriage type, the zinc die-casting body is made as an integral part of the high-performance polymer iglidur® J/ J200 during the injection moulding process. For the user this production process offers the advantage, that the sliding surface is connected captive and insoluble to the carriage. This makes it quicker to install the carriages in the profile. Robust storage is possible, including in the form of bulk goods, as the sliding elements cannot come loose. It is not possible to retrofit sliding elements; the carriages must be entirely replaced at the end of their service life. The continuous operating temperature for overmoulded sliding elements is +50°C.

Anodised surfaces

All drylin® N guide rails are anodised and are distinguished by good wear properties and corrosion resistance. All rail sizes are available as clear-anodised version (silver) as well as anti-reflect version with black-anodised surface. These are technical surfaces and not decorative. Slight crack formations and colour variations cannot be prevented during production, but they do not affect the resistance, the corrosion behaviour or the sliding properties. Cutting surfaces and machined surfaces are uncoated.

Tightening torque for drylin® connections between metal parts

Metric thread (Da)	Tightening torque [Nm]	Recommended tightening torque [Nm]
M3	0.5–1.1	0.7
M4	1.0–2.8	1.5
M5	2.0–5.5	3.0
M6	4.0–10.0	6.0
M8	8.0–23.0	15.0
M10	22.0–46.0	30.0

Please be aware of the minimal screw-in depth for aluminium and zinc die-casting parts: 1.5 x Da

System selection				
System	N17	N27	N40	N80
Rail width	17mm	27mm	40mm	80mm
Installation height	6mm	9.5mm	9.5mm	12mm
General properties				
Rail weight	150g/m	290g/m	450g/m	1,140g/m
Carriage weight	1.7g	9–12.5g	30g	100g
Max. rail length	2,000mm	3,000mm	3,000mm	4,000mm
Load capacity, static				
Fy	50N	500N	700N	1,000N
Fz	50N	500N	700N	1,000N
Mx	0.31Nm	5Nm	10Nm	32.4Nm
My, Mz	0.18Nm	2.5Nm	6Nm	15Nm
Carriage options				
Floating bearing in y-direction	●	●	●	●
Floating bearing in z-direction	●	●	●	●
Floating bearing in yz-direction	●	●	●	●
Pre-load (1N)	●	●	●	–
Overmoulded version	–	●	●	●
Carriage with through hole	–	●	●	–
Carriage with threaded pin	●	●	●	–
Carriage with threaded hole	–	–	–	●

Table 01: System selection ● available – not available

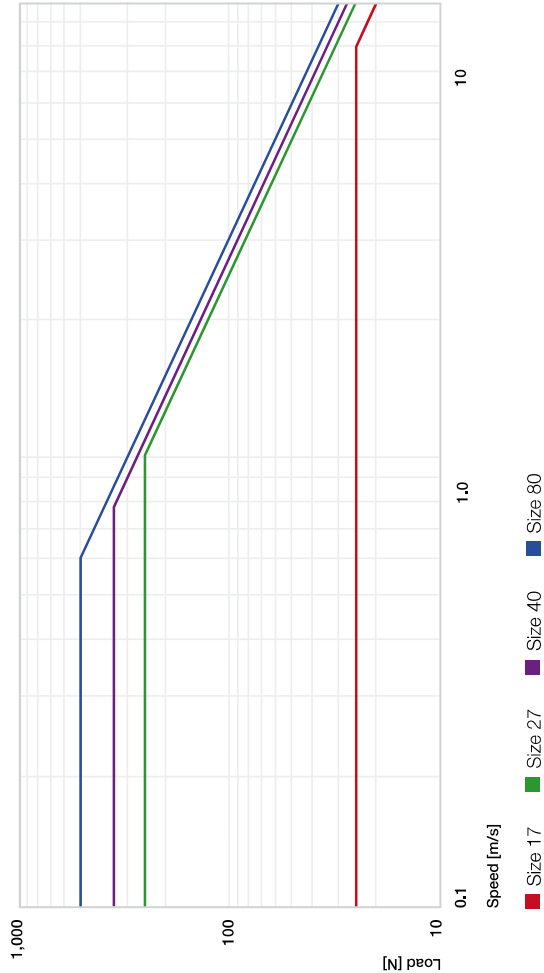


Diagram 01: F v diagram, maximum permissible dynamic load



Complete system



Order key

Type	Installation size	Options
NW - 22 - 17 - 30 - LLY		
drylin® N	Guide carriage	Type of carriage: 02: Carriage with threaded pin: 22: Double carriage with threaded pin Options: P: Pre-load Floating bearing: LLY: y-direction (not possible with the "P"
	Type of carriage	
	Rail width	
	Carriage length	
	Floating bearing in y-direction	

Guide rail – dimensions [mm]

Part No.	L		a	C4	C5 C6		h	h1	K1 ⁷³⁾	ly	lz	Weight [g/m]
	Max.				Min.	Max.						
NS-01-17-□ ⁷²⁾	2,000	17	60	20	49,5	5,5	0,9	03,5	1,700	120	150	
NS-01-17-UNGEBHRT-□ ⁷²⁾	2,000	17	-	-	-	5,5	0,9	-	1,700	120	150	
NS-01-17-AR-□ ⁷²⁾	2,000	17	60	20	49,5	5,5	0,9	03,5	1,700	120	150	

Guide carriage – dimensions [mm]

Part No.	H ±0,35	A	C	C2	K3 ⁷⁴⁾	Sp	Dp ¹⁵⁹⁾	Weight [g]
NW-02-17	6,0	9,6	20	14	M3	2,5	5,0	1,7
NW-02-17-P	6,0	9,6	20	14	M3	2,5	5,0	1,7
NW-22-17-30	6,0	9,6	30	18	M3	2,5	5,0	2,4
NW-22-17-40	6,0	9,6	40	28	M3	2,5	5,0	2,6

⁷²⁾ Please give the required length in mm, symmetrical standard hole pattern C5=C6

⁷³⁾ For cap screw with low head (e.g. DIN 7984, DIN 6912, DIN 84, EN ISO 1707)

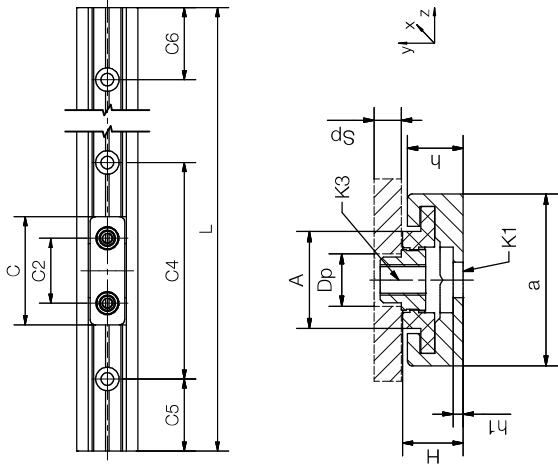
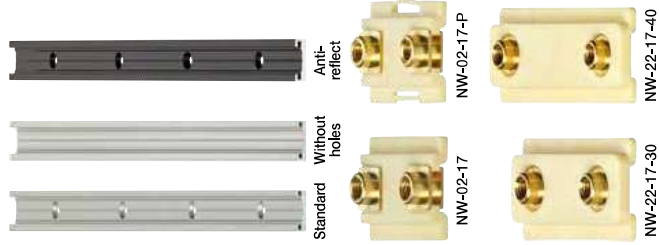
⁷⁴⁾ Metal thread

¹⁵⁹⁾ Hole min. Ø

All elements can be ordered individually or as assembled systems

NS-01-17-1500: Guide rail, installation size 17, 1.500mm length

NK-02-17-02-500-LLY: Complete system with two solid plastic guide carriages with threaded pins, installation size 17, floating bearing in y-direction and 500mm guide rails with standard holes



Selection aid – guide carriage

Part No.	Single	Double	Through hole	Threaded pin	Threaded hole	Pre-load	Solid plastic	Clipped-on	Over-moulded	High temp.
NW-02-17	●			●			●			
NW-02-17-P	●			●		●	●			
NW-22-17-30		●		●			●			
NW-22-17-40		●		●			●			



Complete system



Order key

Type	Size	Options
NW - 01 - 27 - HT - LLY		
drylin® N		
Guide carriage		
Type of carriage		
Rail width		
High temperature		
Floating bearing in y-direction		
Type of carriage: See selection aid		
Options:		
P: Pre-load		
HT: High temperature		
Floating bearing:		
LLY: y-direction		
LLZ: z-direction		
LLYZ: yz-direction		

Guide rail – dimensions [mm]

Part No.	L		a	C4	C5 C6		h	h1	K1 ^{7a)}	ly	lz	Weight [g/m]
	Max.				Min.	Max.						
NS-01-27-□ ^{7a)}	3,000	27	60	20	49.5	9	1.1	04.5	588	290		
NS-01-27-UNGEBOHRT-□ ^{7a)}	3,000	27	–	–	–	9	1.1	–	6,524	588	290	
NS-01-27-AR-□ ^{7a)}	3,000	27	60	20	49.5	9	1.1	04.5	588	290		

Guide carriage – dimensions [mm]

Part No.	H		A	C	C1	C2	H2	K ^{7a)}	K3 ^{7a)}	M ^{7a)} [Nm]	Sp	Dp ^{15a)}	Weight [g]
	±0.35												
NW-01-27	9.5	14.0	40	30	20	1.2	04.5	–	–	–	–	–	10.8
NW-11-27	9.5	14.0	34	30	20	1.2	04.5	–	–	–	–	–	10.8
NW-01-27-P	9.5	14.0	40	30	20	1.2	04.5	–	–	–	–	–	10.8
NW-01-27-HT	9.5	14.0	40	30	20	1.2	04.5	–	–	–	–	–	11.0
NW-02-27	9.5	14.0	40	30	20	–	–	M4	1.2	5.0	6.5	12.5	12.5
NW-12-27	9.5	14.0	34	30	20	–	–	M4	1.2	5.0	6.5	12.5	12.5
NW-02-27-P	9.5	14.0	40	30	20	–	–	M4	1.2	5.0	6.5	12.5	12.5
NW-02-27-HT	9.5	14.0	40	30	20	–	–	M4	–	5.0	6.5	13.0	
NW-21-27-60-P	9.5	14.0	60	60	20	0.7	04.5	–	–	–	–	–	9.0
NW-22-27-60-P	9.5	14.0	60	60	20	–	–	M4	1.2	5.0	6.5	12.0	
NW-31-27-60-P	9.5	14.0	60	60	40	0.7	–	M4	–	–	–	–	9
NW-32-27-60-P	9.5	14.0	60	60	40	–	–	M4	1.2	5	6.5	12	
NW-11-27-80	9.5	14.0	80	76	60	1.2	04.5	–	–	–	–	–	25.0
NW-12-27-80	9.5	14.0	80	76	60	–	–	M4	1.2	5.0	6.5	25.0	

^{7a)} Please give the required length in mm, symmetrical standard hole pattern C5=C6

^{7a)} For cap screw with low head (e.g. DIN 7984, DIN 6912, DIN 84, EN ISO 1707)

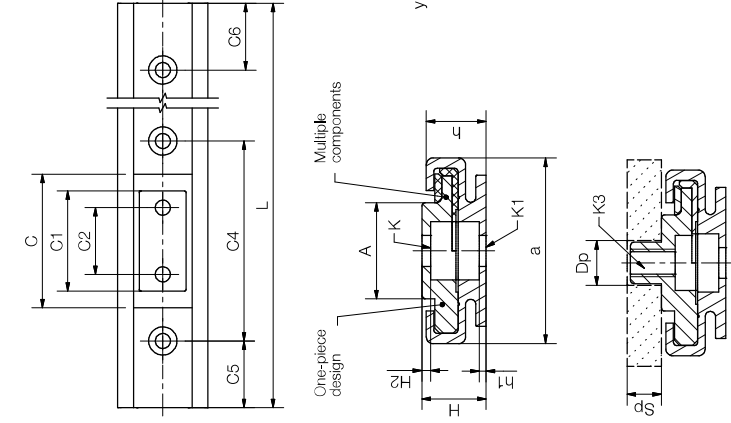
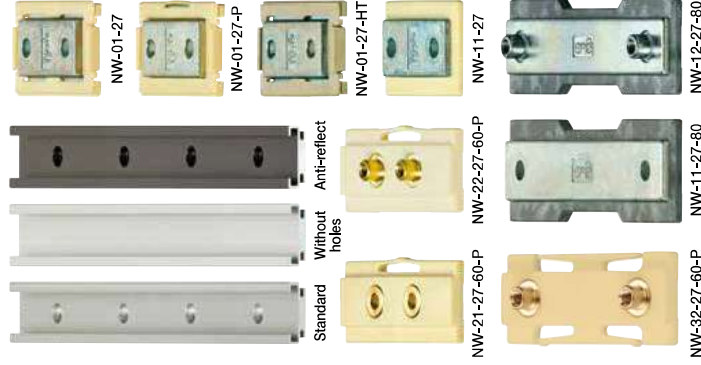
^{7a)} Metal thread ^{7a)} Max. screw tightening torque ^{15a)} Hole min. Ø

All elements can be ordered individually or as assembled systems

NS-01-27-1500: Guide rail, installation size 27, 1,500mm length

NW-02-27-P-LLY: Guide carriage with threaded pin, installation size 27, pre-load, floating bearing in y-direction

NK-02-27-02-500-LLY: Complete system with two clipped-on guide carriages with threaded pins, installation size 27, floating bearing in y-direction and 500mm guide rails with standard holes



Selection aid – guide carriage

Part No.	Single	Double	Through hole	Threaded pin	Threaded hole	Pre-load	Solid plastic	Clipped-on	Over-moulded	High temp.
NW-01-27	●		●					●		
NW-11-27	●		●						●	
NW-01-27-P	●		●			●		●		
NW-01-27-HT	●		●					●		●
NW-02-27	●			●				●		
NW-12-27	●		●	●					●	
NW-02-27-P	●		●	●		●		●		
NW-02-27-HT	●		●	●				●		●
NW-21-27-60-P	●			●		●				
NW-22-27-60-P	●			●		●				
NW-31-27-60-P	●			●		●				
NW-32-27-60-P	●			●		●				
NW-11-27-80		●	●						●	
NW-12-27-80		●		●					●	



Complete system



Order key

Type	Size	Options
NW - 01 - 40 - P - LLY		
drylin® N	Guide carriage	Type of carriage
	Pre-load	Pre-load
	Flloating bearing in	Flloating bearing:
		LLY: y-direction
		LLZ: z-direction
		LLYZ: yz-direction

Type of carriage:
See selection aid

Options:

P: Pre-load

Flloating bearing:

LLY: y-direction

LLZ: z-direction

LLYZ: yz-direction



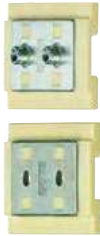
Standard



NW-01-40



NW-02-40



NW-11-40

Guide rail – dimensions [mm]

Part No.	L	A	C	C1	C2	C5	C6	h	h1	K1 ⁷³⁾	ly	lz	Weight
	Max.					Min.	Max.				[mm ²]	[mm ²]	[g/m]
NS-01-40-□ ⁷²⁾	3,000	40	60	20	49.5	20	49.5	8.7	1.3	Ø4.5	26,400	970	450
NS-01-40-UNGEBOHRT-□ ⁷²⁾	3,000	40	–	–	–	–	–	8.7	1.3	–	26,400	970	450
NS-01-40-AR-□ ⁷²⁾	3,000	40	60	20	49.5	20	49.5	8.7	1.3	Ø4.5	26,400	970	450

Guide carriage – dimensions [mm]

Part No.	H	A	C	C1	C2	H2	K ⁷³⁾	K3 ⁷⁴⁾	Sp	Dp ¹⁵⁹⁾	Weight
	±0.35										[g]
NW-01-40	9.5	23.0	50	40	20	1.3	Ø4.5	–	–	–	30.0
NW-01-40-P	9.5	23.0	50	40	20	1.3	Ø4.5	–	–	–	30.0
NW-11-40	9.5	23.0	52	40	20	1.3	Ø4.5	–	–	–	30.0
NW-02-40	9.5	23.0	50	40	20	–	–	M4	5.0	6.5	30.0
NW-02-40-P	9.5	23.0	50	40	20	–	–	M4	5.0	6.5	30.0
NW-12-40	9.5	23.0	52	40	20	–	–	M4	5.0	6.5	30.0

⁷²⁾ Please give the required length in mm, symmetrical standard hole pattern C5=C6

⁷³⁾ For cap screw with low head (e.g. DIN 7984, DIN 6912, DIN 84, EN ISO 1707)

⁷⁴⁾ Metal thread

¹⁵⁹⁾ Hole min. Ø

All elements can be ordered individually or as assembled systems

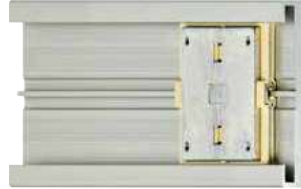
NS-01-40-1500: Guide rail, installation size 40, 1,500mm length

NW-02-40-P-LLY: Guide carriage with threaded pin, installation size 40, pre-load, floating bearing in y-direction

NK-02-40-02-500-LLY: Complete system with two clipped-on guide carriages with threaded pins, installation size 40, floating bearing in y-direction and 500mm guide rails with standard holes

Selection aid – guide carriage

Part No.	Single	Double	Through hole	Threaded pin	Threaded hole	Pre-load	Solid plastic	Clipped-on	Over-moulded	High temp.
NW-01-40	●	●	●	●	●	●	●	●	●	●
NW-01-40-P	●	●	●	●	●	●	●	●	●	●
NW-11-40	●	●	●	●	●	●	●	●	●	●
NW-02-40	●	●	●	●	●	●	●	●	●	●
NW-02-40-P	●	●	●	●	●	●	●	●	●	●
NW-12-40	●	●	●	●	●	●	●	●	●	●



Complete system



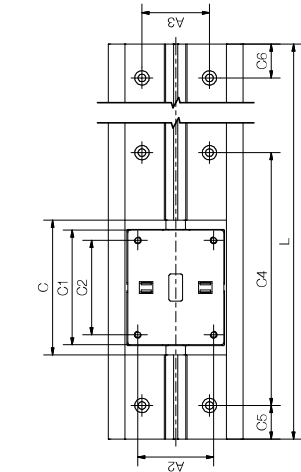
Order key

Type	Size	Options
NW - 02 - 80 - LLY		
drylin® N	Guide carriage	Floating bearing in y-direction
	Type of carriage	Rail width

Type of carriage:
See selection aid
Options:
Floating bearing:
LLY: y-direction
LLZ: z-direction
LLYZ: yz-direction



Standard



Without holes



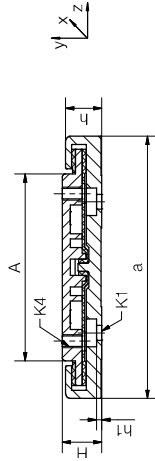
Anti-reflect



NW-12-80



NW-02-80



Guide rail (standard/without holes/AR anti-reflect) – dimensions [mm]

Part No.	L		a	C4	A3	C5 C6		h	h1	K1 ⁷³⁾	ly	lz	Weight [g/m]
	Max.					Min.	Max.						
NS-01-80-□ ⁷²⁾	4,000	80	150	40	25	99,5	11	1,5	Ø4,5	27,120	2,900	1,140	
NS-01-80-UNGEBOHRT-□ ⁷²⁾	4,000	80	–	–	–	–	–	11	1,5	–	27,120	2,900	1,140
NS-01-80-AR-□ ⁷²⁾	4,000	80	150	40	25	99,5	11	1,5	Ø4,5	27,120	2,900	1,140	

Guide carriage – dimensions [mm]

Part No.	H	A	C	C1	C2	A2	K4 ⁷⁴⁾	Weight [g]
NW-02-80	±0,35 12,0	57,0	80	68	56	45	M4	100,0
NW-12-80	12,0	57,0	83	68	56	45	M4	146,3

⁷²⁾ Please give the required length in mm, symmetrical standard hole pattern C5=C6

⁷³⁾ For cap screw with low head (e.g. DIN 7984, DIN 6912, DIN 84, EN ISO 1707)

⁷⁴⁾ Metal thread

Selection aid – guide carriage

Part No.	Single	Double	Through hole	Threaded pin	Threaded hole	Pre-load	Solid plastic	Clipped-on	Over-moulded	High temp.
NW-02-80	●				●			●		
NW-12-80	●				●			●		



All elements can be ordered individually or as assembled systems

NS-01-80-1500: Guide rail, size 80, 1,500mm length

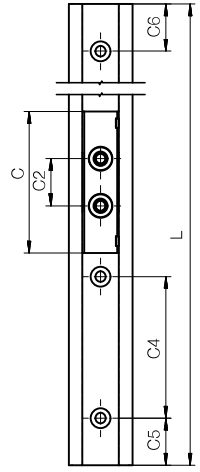
NW-02-80-LLY: Guide carriage, clip-on, installation size 80, floating bearing in y-direction,

NK-02-80-02-500-LLY: Complete system with two clipped-on guide carriages with threaded pins, installation size 80, floating bearing in y-direction and 500mm guide rails with standard holes



Order key

Type	Installation size	Options
Guide rail for pre-load prism slide	Type	Anti-reflect
NSV - 01 - 27 - AR - UNGEBOHRT	Installation size	



Guide rail – dimensions [mm]

Part No.	L	a	C4	C5	C6	h	h1	K1	Iy	Iz	Weight
NSV-01-27	3,000	27	60	20	49.5	8.8	1.1	Ø4.5	11,250	766	409
NSV-01-27-AR	New	3,000	27	60	49.5	8.8	1.1	Ø4.5	11,250	766	409
NSV-01-27-□ ⁷²⁾	3,000	27	-	-	-	8.8	1.1	-	11,250	766	409
NSV-01-27-□-AR ⁷²⁾	New	3,000	27	-	-	8.8	1.1	-	11,250	766	409

⁷²⁾ Please give the required length in mm, symmetrical standard hole pattern C5=C6

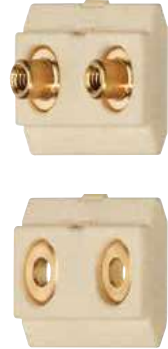


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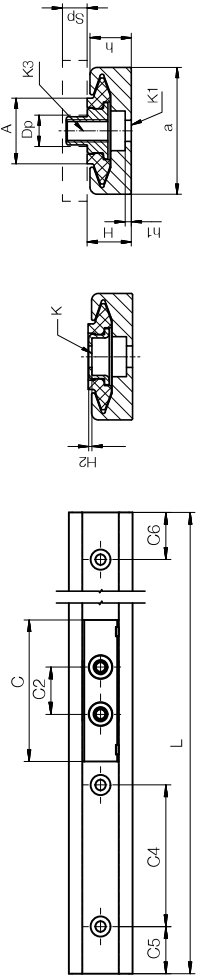


Order key

Type	Installation size	Options
Pre-load prism slide	Type of carriage	Pre-load
NWV - 21 - 27 - 35 - P05	Rail width	
	Carriage length	



With threaded pin 22 or with through hole 21



Guide carriage – dimensions [mm]

Part No.	Pre-load	H	A	C	C2	H2	K	K3	M ⁷⁵⁾	SP	Dp ¹⁵⁹⁾	Weight
NWV-21-27-35-P05	[N]	±0.35	9.5	14	35	20	0.7	Ø4.5	-	-	-	6
NWV-21-27-35-P11	1.1	9.5	14	35	20	0.7	Ø4.5	-	-	-	-	6
NWV-21-27-35-P23	2.3	9.5	14	35	20	0.7	Ø4.5	-	-	-	-	6
NWV-21-27-35-P38	3.8	9.5	14	35	20	0.7	Ø4.5	-	-	-	-	6
NWV-21-27-35-P80	New	8.0	9.5	14	35	20	0.7	Ø4.5	-	-	-	6
NWV-22-27-35-P05	0.5	9.5	14	35	20	-	-	M4	1.2	5	6.5	11
NWV-22-27-35-P11	1.1	9.5	14	35	20	-	-	M4	1.2	5	6.5	11
NWV-22-27-35-P23	2.3	9.5	14	35	20	-	-	M4	1.2	5	6.5	11
NWV-22-27-35-P38	3.8	9.5	14	35	20	-	-	M4	1.2	5	6.5	11
NWV-22-27-35-P80	New	8.0	9.5	14	35	20	-	M4	1.2	5	6.5	11

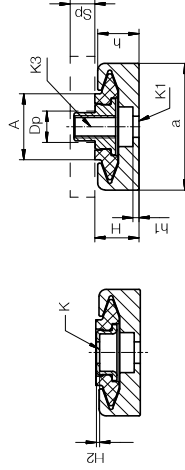
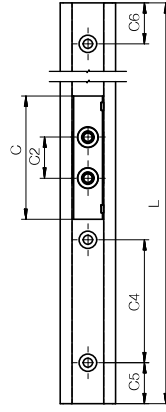
⁷⁵⁾ Max. screw tightening torque

¹⁵⁹⁾ Hole min. Ø

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With threaded pin 22 or with through hole 21



Guide carriage – dimensions [mm]

Part No.	Pre-load	H	A	C	C2	H2	K	K3	M ⁽⁷⁵⁾	SP Dp ⁽⁵⁰⁾	Weight	Min.	
												[N]	[Nm]
NWV-21-27-60-P10	1.0	9.5	14	60	20	0.7	Ø4.5	-	-	-	-	10	
NWV-21-27-60-P22	2.2	9.5	14	60	20	0.7	Ø4.5	-	-	-	-	10	
NWV-21-27-60-P46	4.6	9.5	14	60	20	0.7	Ø4.5	-	-	-	-	10	
NWV-21-27-60-P76	7.6	9.5	14	60	20	0.7	Ø4.5	-	-	-	-	10	
NWV-21-27-60-P160	New	16.0	9.5	14	60	20	0.7	Ø4.5	-	-	-	6	
NWV-22-27-60-P10	1.0	9.5	14	60	20	-	-	M4	1.2	5	6.5	13	
NWV-22-27-60-P22	2.2	9.5	14	60	20	-	-	M4	1.2	5	6.5	13	
NWV-22-27-60-P46	4.6	9.5	14	60	20	-	-	M4	1.2	5	6.5	13	
NWV-22-27-60-P76	7.6	9.5	14	60	20	-	-	M4	1.2	5	6.5	13	
NWV-22-27-60-P160	New	16.0	9.5	14	60	20	-	M4	1.2	5	6.5	11	

⁷⁵⁾ **Max. screw tightening torque**

159) Hole min. Ø



Order key

Type	Installation size	Options
NWV - 21 - 27 - 60 - P10	Pre-load prism slide Type of carriage Rail width Carriage length Pre-load	



Standard carriages

Part No.	Average displacement force [N]
NWV-21/22-27-35-P05	1.0
NWV-21/22-27-35-P11	2.2
NWV-21/22-27-35-P23	4.6
NWV-21/22-27-35-P38	7.6
NWV-21/22-27-35-P80	16.0

Part No.	Guaranteed holding force [N]
NWV-21/22-27-35-P05	0.5
NWV-21/22-27-35-P11	1.1
NWV-21/22-27-35-P23	2.3
NWV-21/22-27-35-P38	3.8
NWV-21/22-27-35-P80	8.0



Long carriages

Part No.	Average displacement force [N]
NWV-21/22-27-60-P10	2.0
NWV-21/22-27-60-P22	4.4
NWV-21/22-27-60-P46	9.2
NWV-21/22-27-60-P76	15.2
NWV-21/22-27-60-P160	32.0

Part No.	Guaranteed holding force [N]
NWV-21/22-27-60-P10	1.0
NWV-21/22-27-60-P22	2.2
NWV-21/22-27-60-P46	4.6
NWV-21/22-27-60-P76	7.6
NWV-21/22-27-60-P160	16.0



Note:

The average displacement force values apply to unloaded carriages at centric drive. The real displacement forces depend to a large extent on the displacement speed. At creep movement (few mm/min), the values are slightly over the guaranteed holding force. At higher displacement forces, the values can considerably exceed the average displacement force. The values do not apply for applications in which dirt and moisture ingress into the system. The holding force cited is a minimum value – the displacement force required to move the carriage may be higher.



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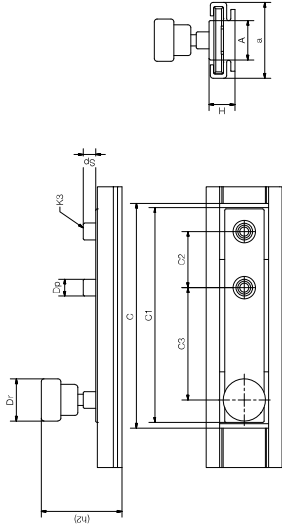
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3D CAD files, prices and delivery time online ► www.igus-asean.com/drylinN 1045



Order key

Type	Size	Version
drylin® N		
Guide carriage		
Type of carriage		
Rail width		
Carriage length		
Manual clamp		



Dimensions [mm]

Part No.	H	h2	A	a	C	C1	C2	C3	K3	M	Sp	Dp	Dr	Weight [g]
NW-12-27-80-HKA	9,5	32	14	27	80	76	20	40	M4	1,2	5	6,5	15	32

M: Permissible torque of the complete system



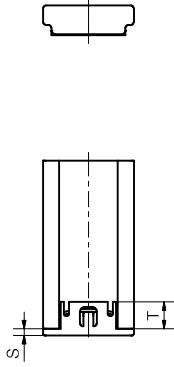
Order example:

NW-12-27-80-HKA: Manual clamp for NW-12-27-80 carriage



Order key

Type	Size
drylin® N -	
end cap	
Push-fit	
Rail width	



Dimensions [mm]

Part No.	S	T	For rail
NSKB-17	1,5	7	NS-01-17
NSKB-27	2,0	8	NS-01-27
NSK-40	1,5	8	NS-01-40
NSKB-80	2,0	17	NS-01-80



Order example:

NSK-40: End caps for guide rail size 40, bolted

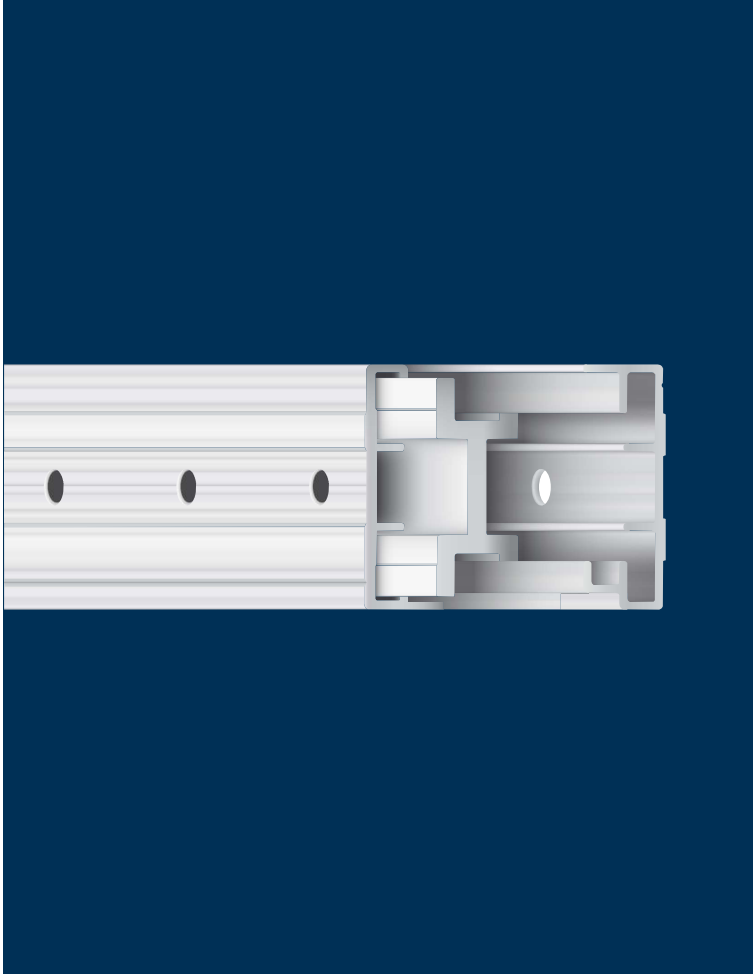


Easily assembled and disassembled by hand using a screwdriver. Part No.: NSKB

End caps for rail size 40, screwed
Part No.: NSK-40

drylin® N replacement plastic sliders (set)
Material iglidur® J

Carriage type	Part No. Sliding part set
NW-01/02-27	NEK-01-27
NW-01/02-27P	NEK-01-27-P
NW-01/02-27-LLY	NEK-01-27-LLY
NW-01/02-27-LLZ	NEK-01-27-LLZ
NW-01/02-40	NEK-02-40
NW-01/02-40P	NEK-01-40-P
NW-01/02-40-LLY	NEK-02-40-LLY
NW-01/02-40-LLZ	NEK-02-40-LLZ
NW-02-80	NEK-02-80
NW-02-80-LLY	NEK-02-80-LLY
NW-02-80-LLZ	NEK-02-80-LLZ



drylin® linear technology – drylin® N telescopic rails

- Continuously extendable
- Lubrication-free dry-tech® sliding elements
- Quiet, sliding movement
- Full extension, partial extension, overextension



drylin® N low-profile linear guides | Product range

Telescopic rails

- Robust plastic/aluminium version
- Lightweight
- Cost-effective
- Corrosion-free
- Continuous lengths up to 1,200mm (total extension)

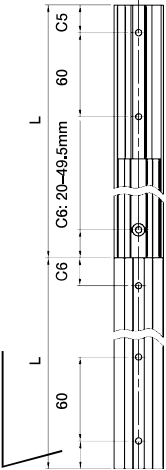


Order key

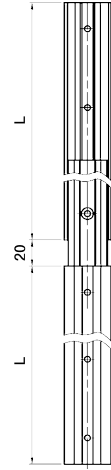
Type	Size	Option
drylin® N	N T -35-300	
Telescopic system		
Length [mm]		
Rail width		

NT-35-"L" - Total extension

C5: 20-49.5mm



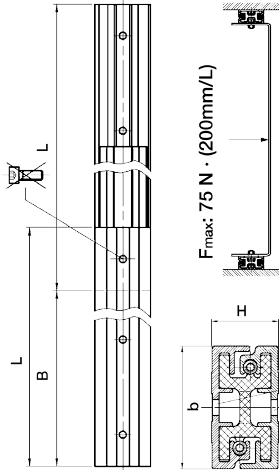
NT-35-"L"-"L"+20" - overextension



Order key overextension

Type	Size	Option
drylin® N	N T -35-300-320	
Telescopic system		
Length [mm]		
Rail width		
Overextension		

NT-35-"L"-"B" - Partial extension



Order key partial extension

Type	Size	Option
drylin® N	N T -35-300-200	
Telescopic system		
Length [mm]		
Rail width		
Partial extension		



Tip:

F_{max} calculated using this formula allows an easy manual use. Higher loads can be taken up by the system, but need a higher drive force.

Dimensions [mm]

Part No.	b	H	C4	C5 = C6	Min.	Max.	L	Min.	Max.
NT-35-... mm	35	19	60	20	49,5	100	600		

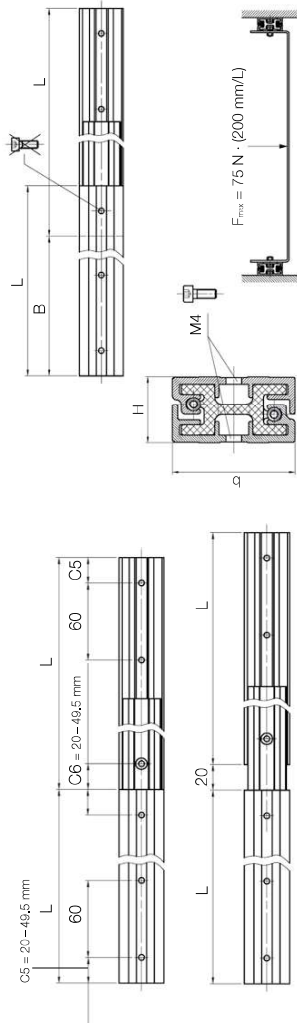
drylin® N low-profile linear guides | Product range

Telescopic rails with locking mechanism



Order key

Type	Size	Option
drylin® N	N T -LM- 35 -300	
Telescopic system		
Locking mechanism		
Rail width		
Length [mm]		



drylin® NT LM in adjustment of Perspex guard



drylin® NT LM in guard door adjustment in a machine tool

drylin® detent in end and centre position at full extension - dimensions [mm]

Part No.	b	H	Lmin	Lmax.
NT-LM-35-...mm	35	19	140	600

Individual position detent upon request; The length divided by the locking distance must be an even number.

e.g. Length 250mm, latching in 62.5mm step: $250/62.5 = 4$



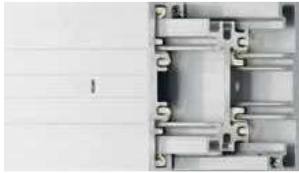
Order example:

NT-LM-35-300: drylin® N telescopic rail with locking mechanism, 35mm width, retracted length 300mm



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Telescopic guide for higher loads



- Lubrication and maintenance-free
- Continuously extendable up to 2,000mm (extended length)
- Sliders made of durable high-performance polymers
- Quiet, sliding movement
- Full extension, partial extension and overextension possible



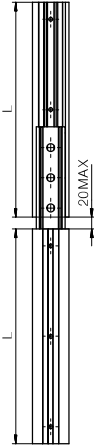
Order key

Type	Size	Length [mm]
drylin® N	N T -60 -200	
Telescopic system		Rail width

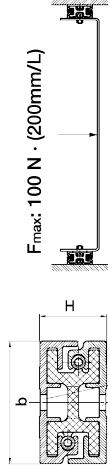
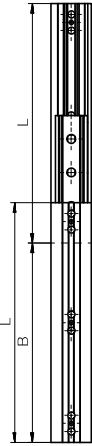
NT-60-"L" – Total extension



NT-60-"L"-L+max. 20" – overextension



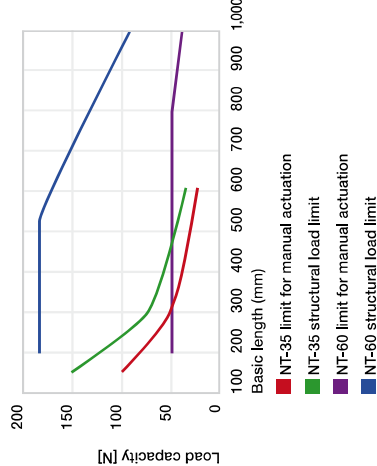
NT-60-"L"-L"B" – Partial extension



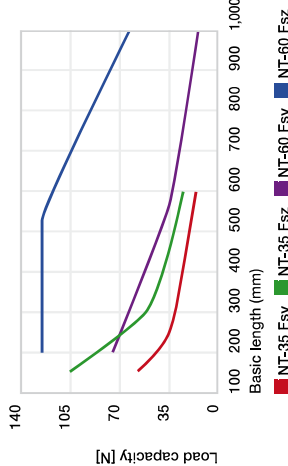
F_{max}: 100 N · (200mm/L)



Tip:
F_{max} calculated using this formula allows an easy manual use. Higher loads can be taken up by the system, but need a higher drive force.



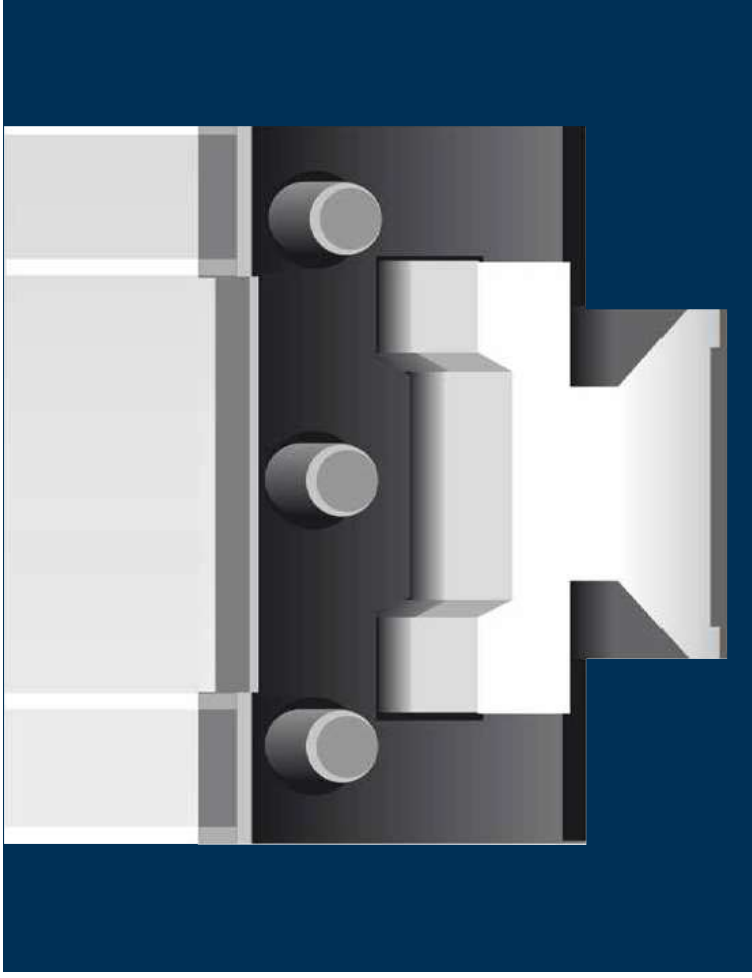
drylin® N telescope systems load capacity of a drawer with two systems installed upright



drylin® N telescope static load capacity in different load directions

Dimensions [mm]

Part No.	b	H	C4	C5 = C6	Min.	Max.	L	Min.	Max.
NT-60-... mm New	60	24	150	25	99.5	200	1,000		



drylin® linear technology – drylin® T rail guides

Robust linear guides

Adjustable bearing clearance

Wear-resistant and durable

Dimensionally identical to recirculating ball-bearing guides

Lubrication and maintenance-free



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