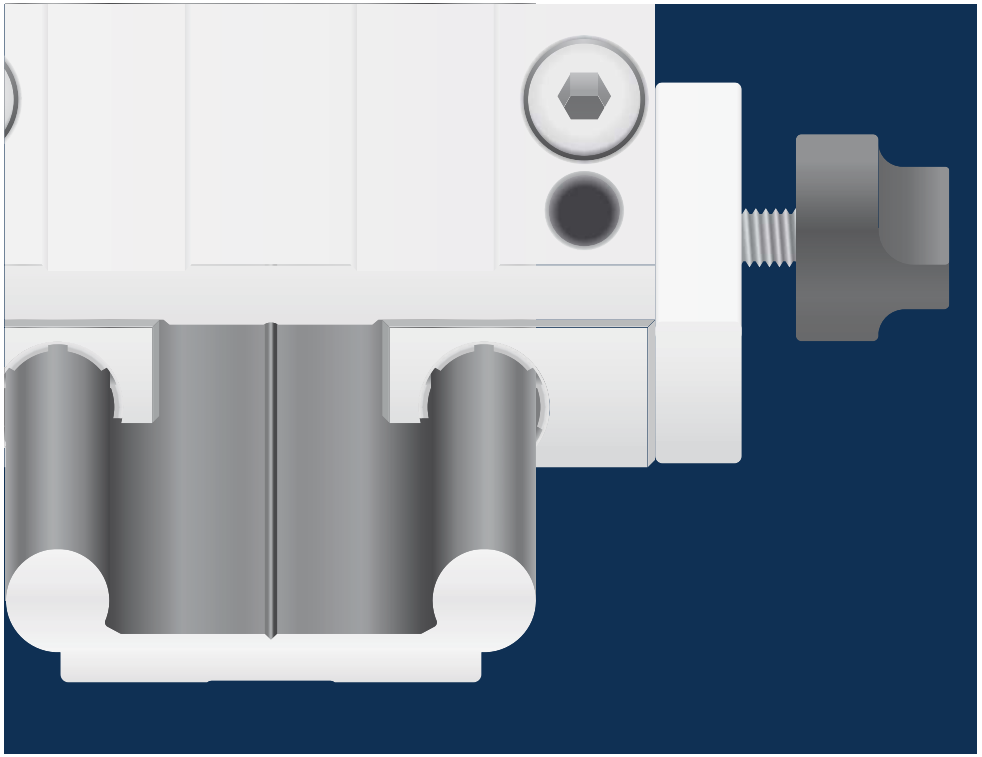
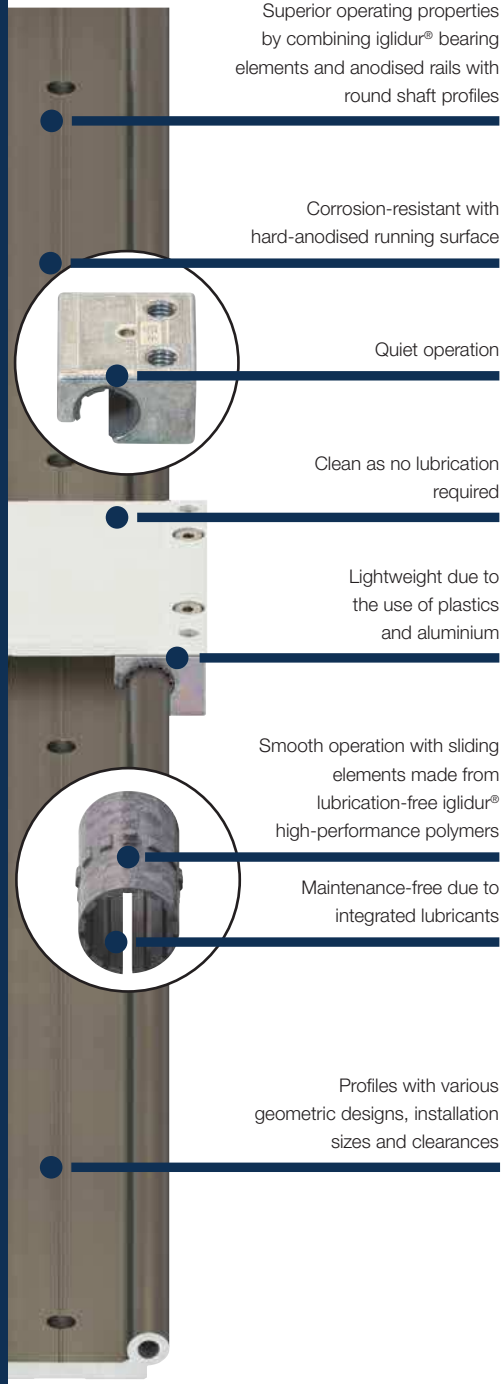


drylin® linear technology – drylin® W profile guides

- Modular linear guides
- Replaceable lubrication-free drylin® liners
- Robust linear housings
- Ready-to-install linear carriages
- Single and double rails

Lubrication-free, light, quiet, long service life, cost-effective



Lubrication-free linear system – drylin® W

drylin® W profile guides are a cost-effective pre-assembled system. The design allows extremely high flexibility in the construction and installation due to the use of individual or double rails. Hard-anodised aluminium is used as rail material and provides the best friction and wear results. The absence of lubrication makes the profile guide system extremely insensitive to dirt and, due to its cleanliness, it is also suitable for applications in clean and hygienic environments.

- Easy installation, maintenance-free
- Resistant to dirt thanks to dry operation
- Lightweight and quiet
- Square rail with floating bearing function for 90° installation
- Bearing with manual clearance adjustment available

Typical application areas

- Agricultural machinery
- Automotive
- Medical technology
- Packaging industry
- Furniture

Available from stock
Detailed information about delivery time online.

Price breaks online
No minimum order value. No minimum order quantity.

Max. +200°C
Min. –40°C

Carriage lengths: 60 – 250mm
Carriage widths: 54 – 195mm
Rail length: up to 4,000mm

Service life calculation
▶ **www.igus-asean.com/drylin-expert**

Profile guides for almost unlimited design freedom

Individual components: Pillow blocks

- Material: Zinc die-casting, aluminium or stainless steel
- Round or square design
- Liners made from iglidur® high-performance polymers

▶ **From page 977**

Single components: Single and double rails

- Material: aluminium, hard-anodised
- Design freedom
- 316 stainless steel rails

▶ **From page 976**

Assembled systems: Complete carriages

- Pre-assembled
- Variable lengths and widths
- Mono-slide carriage made from aluminium

▶ **From page 990**

Accessories

- Manual clamp for single bearing housing and complete carriages
- End caps for high profile rails

▶ **From page 1020**

Hybrid guides

- Linear housing with integrated single or double roller
- Low drive force
- Available as single housing or complete carriage

▶ **From page 1005**

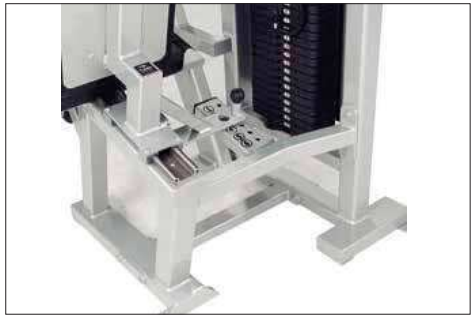
Based on drylin® W

Measuring systems
▶ **From page 1187**

Linear modules SLW/SAW/GRW/ZLW
▶ **From page 1338**

drylin® linear bearings enable precise positioning at high speeds. Unlike conventional bearings, they do not require lubrication and are corrosion free.

Lightweight due to the use of plastic and aluminium with a corrosion-free coating, the guides in the drylin® range impress with their quiet and precise running.

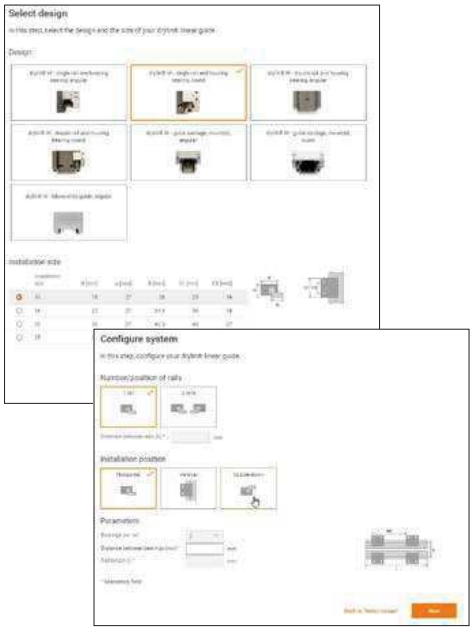


Adjustment mechanisms on gym equipment no longer have to be maintained thanks to the igus® drylin® W profile guides.

The closing mechanism on this casting machine is subjected to high temperatures and dirt. To make it as durable as possible despite this, it is mounted with a drylin® W profile guide.

Due to the price advantage coupled with the resistance against dirt and dust, the customer opted for drylin® W.

Quiet, low vibration adjustments in the stage equipment field are enabled through the use of drylin® W linear guides based on steel shafts in combination with stainless steel pillow blocks.



Expert for linear guides: System selection and 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

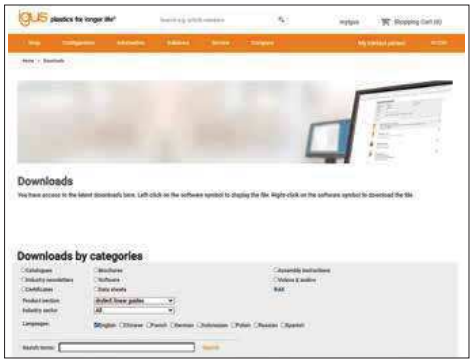
Download the online tool app now

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.

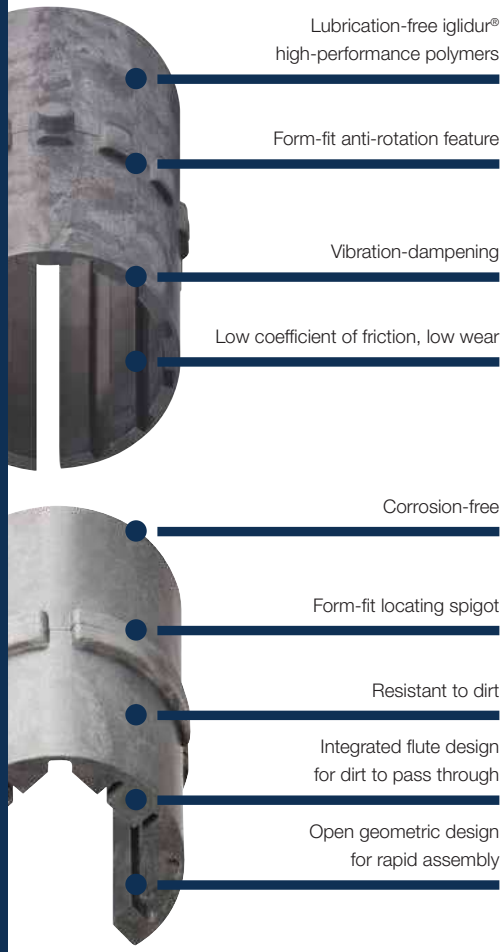
▶ www.igus-asean.com/drylin-CAD



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

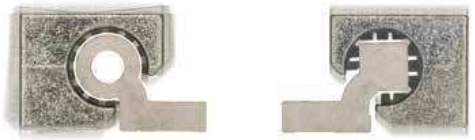


drylin® liners made from high-performance polymers

Extremely wear-resistant tribopolymers improved by precisely blended additions of strengthening materials and solid lubricants, tested a thousand times and proved a million times – that is iglidur®. Further to the general properties, every iglidur® bearing material has a series of special features, which account for its particular suitability for certain applications and requirements. The detailed description of the materials can be found in the respective sections.

- Lubrication-free
- Corrosion-free
- Low coefficient of friction
- Maintenance-free
- Dirt resistance
- Lightweight
- High wear resistance
- Excellent price-performance ratio

	 The all-rounder – iglidur® J	 The specialist – iglidur® J200	 The extreme – iglidur® X	 The endurance runner – iglidur® E7	 The FDA-compliant – iglidur® A180	 Blue Sky Thinking FDA/EU-compliant iglidur® A160
Application temperature	from –50°C to +90°C	from –50°C to +90°C	from –100°C to +250°C	from –50°C to +70°C	from –50°C to +90°C	from –50°C to +90°C
Best coefficient of friction with	Steel shaft	Hard-anodised aluminium	Hard-chromed steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Volume resistance	> 10^{13}Ωcm	> 10^{8}Ωcm	< 10^{6}Ωcm	> 10^{9}Ωcm	> 10^{12}Ωcm	> 10^{12}Ωcm
Moisture absorption	1.3% weight	0.7% weight	0.5% weight	< 0.1% weight	0.2% weight	< 0.1% weight
Maximum service life with	Hard-anodised aluminium	Hard-anodised aluminium	Hardened stainless steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Potential counter partner	All shaft materials	Hard-anodised aluminium	Hardened stainless steel	Steel/stainless steel shaft	All shaft materials	Stainless steel
Permissible stat. surface pressure	35MPa	23MPa	150MPa	18MPa	28MPa	15MPa
Part No.	JUM-...	J200UM-...	XUM-...	E7UM-...	A180UM-...	A160UM-...



Floating bearings for all directions (up to ±1mm) compensate misalignments and parallelism errors.

Floating bearings aid assembly – when using single rails

Assembly is easy with the drylin® WQ square profile. Floating bearings for all directions (±1mm) compensate misalignments and parallelism errors between rails. This eliminates jamming, otherwise only prevented by time-consuming manual alignment of the system. Although drylin® W is a profile rail system, it is able to compensate angular errors about the x-axis. An angular adjustment of ±7° is possible here. This effectively eliminates the misalignment known to occur when assembling to sheet metal fabrications.

Possible combinations in assembled rail systems

Fixed bearing Floating bearing

Fixed bearing Floating bearing

Fixed bearing Floating bearing

Available floating bearing blocks

LL – round

LLY – square

LLZ – square

rotating – square

drylin® W profile guides | Product selection

Profiles	Installation size					Liner material					
	06	10	16	20	25	J	J200	X	A180	E7	A160
Single rail, round		●	●	●	●	●	●	●	●	●	●
Single rail, square	●	●	●	●	●		●				
Double rail, round		●	●	●	●	●	●	●	●	●	●
Double rail, square	●	●	●	●			●				
High profile, round		●	●			●	●	●	●	●	●
High profile, square	●						●				
Stainless steel		●	●	●	●	●	●	●	●	●	●
Carbon fibre/fibreglass	●										
Curved rail	●	●									
Bearing housing – material											
Zinc die-cast	●	●	●	●	●	●	●	●	●	●	●
Aluminium	●	●	●	●	●	●	●	●	●	●	●
Stainless steel		●	●	●	●	●	●	●	●	●	●
Bearing housing – options											
With manual clamp	●	●	●	●	●	●	●	●	●	●	●
Clearance adjustment		●	●	●		●	●				
Hybrid roller bearing		●	●	●	●	●					
Pre-load		●	●	●							
Bearing can be changed on the rail		●					●				
Linear guides											
Pre-assembled carriages	●	●	●	●	●	●	●	●	●	●	●
Hybrid carriages		●	●	●		●					
Mono-slide carriage	●	●	●	●		●					
Systems											
Lead screw modules	●	●	●	●	●	●	●	●	●	●	●
Toothed belt axis	●	●	●	●			●				
With measuring system		●				●					

● Standard
● Optional

drylin® W profile guides | Liners

Available pillow blocks and carriages	Suitable liners					
	iglidur® J200	iglidur® J	iglidur® X	iglidur® E7	iglidur® A180	iglidur® A160
Pillow block, square						
Standard	●					
Aluminium	●					
Pillow block, round						
Standard	●	●	●	●	●	●
Stainless steel	●	●	●	●	●	●
Aluminium	●	●	●	●	●	●
Aluminium, tandem	●	●	●	●	●	●
"Turn-to-fit"	●	●				
Spring pre-load	●					
Bearing can be changed on the rail	●					
Hybrid – roll and slide		●				
Guide carriage, fitted						
Standard, assembled, square	●					
Standard, assembled, round	●	●	●	●	●	●
Hybrid, round		●				
"Turn-to-fit", round		●				
Complete carriages						
Mono-slide, square		●				

● Standard ● Optional

drylin® W profile guides | Product range

Single rail, square, hard-anodised aluminium

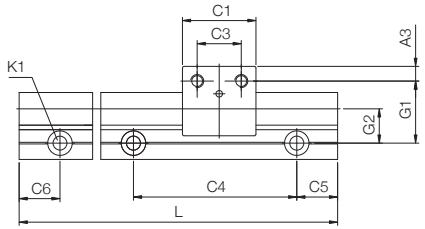

WSQ-06

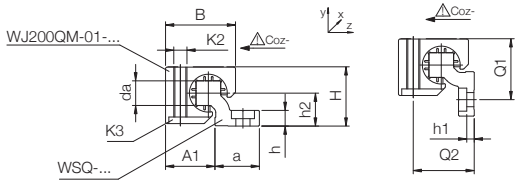

WSQ-10


WSQ-16


WSQ-20


WSQ-25





Hard-anodised surfaces
▶ Page 958

Curved rail profiles
▶ Page 962

Technical data and dimensions [mm]

Part No.	Weight	H[57]	da	L	a	h	h1	h2	G1	G2	A1	Q1	Q2
	[kg/m]	±0.25	–0.1	Max.									
WSQ-06	0.23	14	5	3,000	14	4	4[58]	7.5	18	10.5	13.5	17	15
WSQ-10	0.54	20	7.5	4,000	25	5.5	5.5[58]	11	27	17	18.5	26	21
WSQ-16	0.94	27	11.5	4,000	27	7.5	3.5	14	33	19	25	32	28
WSQ-20	1.41	36	15	4,000	27	9.5	4.5	20	38	21	30	37	37
WSQ-25	1.94	45	18.5	4,000	32	11.5	5.5	25	46.5	25.5	37.5	45.5	46

Part No.	C4	C5	C5	C6	C6	K1 for screw	Geometrical moment of inertia		Moment of resistance	
		Min.	Max.	Min.	Max.		Iy	Iz	Wby	Wbz
						DIN 912	[mm⁴]	[mm⁴]	[mm³]	[mm³]
WSQ-06	60	20	49.5	20	49.5	M4[58]	2,200	640	220	100
WSQ-10	120	20	79.5	20	79.5	M6[58]	16,100	3,300	950	350
WSQ-16	120	20	79.5	20	79.5	M8	33,000	10,800	1,700	910
WSQ-20	120	20	79.5	20	79.5	M8	56,500	34,000	2,600	2,100
WSQ-25	150	25	99.5	25	99.5	M10	115,900	73,500	4,500	3,700

Standard hole pattern: C5 = C6, please order with drawing for C5 ≠ C6

[57] Height dimension minus the bearing clearance tolerance

[58] Plain holes

Can be combined with:


WJ200QM-...

drylin® W profile guides | Product range

Pillow blocks, square, made from zinc die-casting or aluminium

Can be combined with:


WSQ-...

WSQ-...


WSX-...

Suitable mounting plate
▶ Page 1026

Technical data and dimensions [mm]

Part No.	Floating bearing clearance	Floating bearing direction	Weight		B	C1	C3	A3	K2	K3 for countersunk head screw	Static load capacity Coy	Coz+	Coz–
			[g]	-AL							[N]	[N]	[N]
WJ200QM-01-06	–	–	16	7.18	18	19	10	4.5	M4	M3	420	420	140
WJ200QM-01-06-AL	–	–	16	7.18	18	19	10	4.5	M4	M3	420	420	140
WJ200QM-01-06-LLY	± 0.5	y / z	16	7.18	18	19	10	4.5	M4	M3	420	420	140
WJ200QM-01-06-LLZ	± 0.5	y / z	16	7.18	18	19	10	4.5	M4	M3	420	420	140
WJ200QM-01-10	–	–	41	21	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200QM-01-10-AL	–	–	41	21	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200QM-01-10-LLY	± 0.7	y / z	41	21	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200QM-01-10-LLZ	± 0.7	y / z	41	21	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200QM-01-16	–	–	100	51	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200QM-01-16-AL	–	–	100	51	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200QM-01-16-LLY	± 1.0	y / z	100	51	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200QM-01-16-LLZ	± 1.0	y / z	100	51	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200QM-01-20	–	–	190	104	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200QM-01-20-AL	–	–	190	104	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200QM-01-20-LLY	± 1.0	y / z	190	104	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200QM-01-20-LLZ	± 1.0	y / z	190	104	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200QM-01-25	–	–	435	212	52.5	58	36	11	M10	M8	4,800	4,800	950
WJ200QM-01-25-AL	–	–	435	212	52.5	58	36	11	M10	M8	4,800	4,800	950
WJ200QM-01-25-LLY	± 1.0	y / z	435	212	52.5	58	36	11	M10	M8	4,800	4,800	950
WJ200QM-01-25-LLZ	± 1.0	y / z	435	212	52.5	58	36	11	M10	M8	4,800	4,800	950

Order example: **WJ200QM-01-06**: Pillow block, square
WJ200QM-01-06-LLZ: Pillow block, square, with floating bearing in z-direction
WJ200QM-01-06-AL: Pillow block, square, made from aluminium

Order key – single rail

Type				Length
WS	Q	- 06	-	□
Guide rail	Square	Shafts Ø		Rail length [mm]

Order key – pillow block

Type					Size
WJ200QM	-	01	-	10	
drylin® W	Liner material iglidur® J200	Pillow block, square		Standard	Size

Options:
Blank: Fixed bearing
LLY: Floating bearing in y-direction
LLZ: Floating bearing in z-direction
AL: Pillow block made from aluminium

drylin® W profile guides | Product range

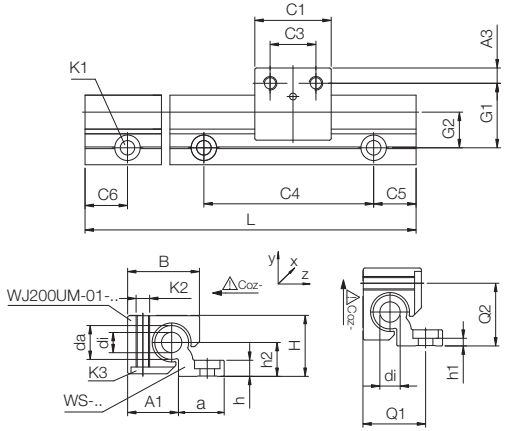
Single rail, round, hard-anodised aluminium


WS-10


WS-16


WS-20


WS-25



This assembled position not possible for WS-10

Hard-anodised surfaces
▶ Page 958

Curved rail profiles
▶ Page 962

Stainless steel version available
▶ Page 1210

Technical data and dimensions [mm]

Part No.	Weight	H[57]	da	di	L	a	h	h1	h2	G1	G2	A1	Q1	Q2
	[kg/m]	±0.25	–0.1		Max.									
WS-10	0.62	18	10	–	4,000	27	5.5	5.5[58]	9	27	17	16.5	–	–
WS-16	0.98	27	16	8.0	4,000	27	7.5	3.5	14	33	19	25	32	28
WS-20	1.32	36	20	10.2	4,000	27	9.5	4.5	20	38	21	30	37	37
WS-25	2.03	45	25	14	4,000	32	11.5	5.5	25	46.5	25.5	37.5	45.5	46

Part No.	C1	C3	C4	C5	C5	C6	C6	A3	K1 for screw	Geometrical moment of inertia		Moment of resistance	
				Min.	Max.	Min.	Max.			ly	lz	Wby	Wbz
									DIN 912	[mm⁴]	[mm⁴]	[mm³]	[mm³]
WS-10	29	16	120	20	79.5	20	79.5	6.5	M6[58]	19,000	2,850	1,000	310
WS-16	36	18	120	20	79.5	20	79.5	9	M8	36,000	12,900	1,800	940
WS-20	45	27	120	20	79.5	20	79.5	9	M8	57,100	35,000	2,700	1,900
WS-25	58	36	150	25	99.5	25	99.5	11	M10	129,000	86,000	4,900	3,800

Standard hole pattern: C5 = C6, please order with drawing for C5 ≠ C6

[57] Height dimension minus the bearing clearance tolerance

[58] Plain holes

Can be combined with:


WJ200UM(T)-...


WJ200UME-...


WJUM-..-ES-FG


WJRM-...

drylin® W profile guides | Product range

Single rails round, made of 316 stainless steel

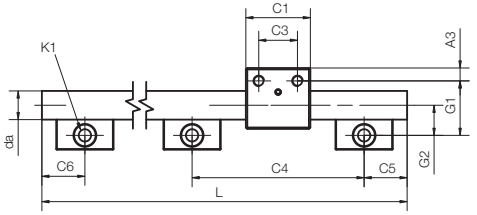
STAIN-LESS STEEL

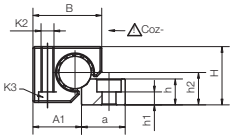
Order key – single rail

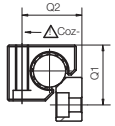
Type	Material
WS-10-ES-FG	

Guide rail | Shafts Ø | Stainless steel | Precision casting

Housing and shaft support material	AISI 316
Shaft material	AISI 316Ti
Installation size 25	
Shaft, shaft support and housing material	AISI 316Ti







This assembled position is not possible for WS-10

Technical data and dimensions [mm]

Part No.	Weight	H[57]	da	L	a	h	h1	h2	G1	G2	A1	Q1	Q2
	[kg/m]	±0.25	–0.1	Max.	–0.3								
WS-10-ES-FG	0.87	18	10	3,000	27	5.5	5.5[58]	9	27	17	16.5	–	–
WS-16-ES-FG	2.22	27	16	3,000	27	12.0	4.5	14	33	19	25	32	28
WS-20-ES-FG	3.37	36	20	3,000	27	16.0	8.0	20	38	21	30	37	37
WS-25-ES-FG	5.21	45	25	3,000	32	20.0	9.0	25	46.5	25.5	37.5	45.5	46

Part No.	C1	C3	C4	C5	C5	C6	C6	A3	K1 for screw	Geometrical moment of inertia		Moment of resistance	
				Min.	Max.	Min.	Max.			ly	lz	Wby	Wbz
									DIN 912	[mm⁴]	[mm⁴]	[mm³]	[mm³]
WS-10-ES-FG	29	16	120	20	79.5	20	79.5	6.5	M6[58]	491	491	98	98
WS-16-ES-FG	36	18	120	20	79.5	20	79.5	9.0	M8	3,217	3,217	402	402
WS-20-ES-FG	45	27	120	20	79.5	20	79.5	9.0	M8	7,854	7,854	785	785
WS-25-ES-FG	58	36	150	25	99.5	25	99.5	11.0	M10	19,175	19,175	1,534	1,534

[57] Height dimension minus the bearing clearance tolerance

[58] Plain holes

Can be combined with:


WJ200UM(T)-...


WJ200UME-...


WJUM-..-ES-FG


WJRM-...

Suitable liner material:


iglidur® J


iglidur® E7


iglidur® A180

drylin® W profile guides | Product range

Pillow blocks, round, made from zinc die-casting or aluminium

Order example:
WJ200UM-01-10:
Pillow block, round
WJ200UM-01-10-LL:
Pillow block, round, floating bearing
WJ200UM-01-10-AL:
Pillow block, round, made from aluminium

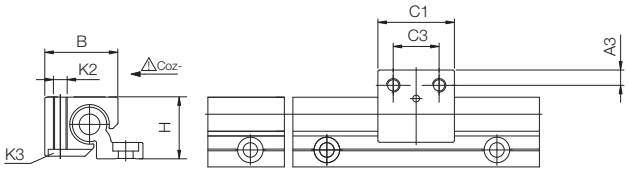
Suitable mounting plate
▶ **Page 1026**

Order key

Type	Size	Options
WJ200UM-01-	10	-AL

drylin® W	Liner material iglidur® J200	Pillow block, round	Standard	Size	Aluminium

Options:
Blank: Fixed bearing
LL: Floating bearing
AL: Pillow block made from aluminium
ES: Stainless steel
ES-FG: Stainless steel precision casting



Technical data and dimensions [mm]

Part No.	Floating bearing clearance	Weight [g]	B	C1	C3	A3	K2	K3 for countersunk head screw	Static load capacity Coy [N]	Coz+ [N]	Coz– [N]
WJ200UM-01-10	–	41	26.0	29	16	6.5	M6	M5	1,200	1,200	250
WJ200UM-01-10-LL	±0.2	41	26.0	29	16	6.5	M6	M5	1,200	1,200	250
WJ200UM-01-10-AL	–	20	26.0	29	16	6.5	M6	M5	1,200	1,200	250
WJUM-01-10-ES-FG[59]	–	57	26.0	29	16	6.5	M6	M5	3,800	3,800	950
WJ200UM-01-16	–	100	34.5	36	18	9.0	M8	M6	2,100	2,100	400
WJ200UM-01-16-LL	±0.2	100	34.5	36	18	9.0	M8	M6	2,100	2,100	400
WJ200UM-01-16-AL	–	48	34.5	36	18	9.0	M8	M6	2,100	2,100	400
WJUM-01-16-ES-FG[59]	–	134	34.5	36	18	9.0	M8	M6	6,900	6,900	1,450
WJ200UM-01-20	–	190	42.5	45	27	9.0	M8	M6	3,200	3,200	500
WJ200UM-01-20-LL	±0.25	190	42.5	45	27	9.0	M8	M6	3,200	3,200	500
WJ200UM-01-20-AL	–	99	42.5	45	27	9.0	M8	M6	3,200	3,200	500
WJUM-01-20-ES-FG[59]	–	280	42.5	45	27	9.0	M8	M6	11,000	11,000	1,900
WJ200UM-01-25	–	425	52.5	58	36	11.0	M10	M8	4,800	4,800	950
WJ200UM-01-25-LL	±0.25	425	52.5	58	36	11.0	M10	M8	4,800	4,800	950
WJ200UM-01-25-AL	–	250	52.5	58	36	11.0	M10	M8	4,800	4,800	950
WJUM-01-25-ES-FG[59]	–	564	52.5	58	36	11.0	M10	M8	16,000	16,000	3,600

[59] Alternative with XUMO-01-... liners for high temperatures available. Part No.: WXUM-01-...

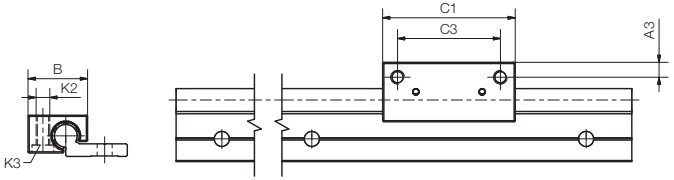
drylin® W profile guides | Product range

Pillow blocks, tandem, round, anodised aluminium

Order key

Type	Size	Material
WJ200UM T-01-	10	-AL

drylin® W	Liner material iglidur® J200	Pillow block, round	Tandem	Standard	Size	Aluminium



Technical data and dimensions [mm]

Part No.	Weight [g]	B	C1	C3	A3	K2	K3 for countersunk head screw	Static load capacity Coy [N]	Coz+ [N]	Coz– [N]
WJ200UMT-01-10-AL	43	26	58	45	6.5	M6	M5	2,000	2,000	420
WJ200UMT-01-16-AL	102	34.5	72	54	9	M8	M6	3,400	3,400	670
WJ200UMT-01-20-AL	182	42.5	80	62	9	M8	M6	5,300	5,300	830

Can be combined with:

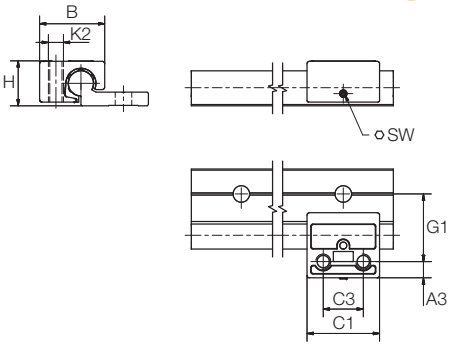
WS-... WS-...-ES-FG-... WS-... WS-...-ES-FG WSX-...

Suitable liner material:

iglidur® J iglidur® J200 iglidur® X iglidur® E7 iglidur® A180

drylin® W profile guides | Product range

Pillow blocks, round, adjustable bearing clearance



Turn-to-fit

Order key

Type	Size
WJ200UM E - 01-10	

drylin® W	Liner material iglidur® J200	Pillow block, round	Adjustable	Standard	Size

Allen key supplied

Suitable mounting plate
▶ Page 1026

Technical data and dimensions [mm]

Part No.	Weight	B	C1	C3	A3	K2	H	SW	G1	Static load capacity Coy	Coz+	Coz–
	[g]						±0.25			[N]	[N]	[N]
WJUME-01-10	43	26	29	16	6.5	M6	18	1.5	27	560	560	250
WXUME-01-10	43	26	29	16	6.5	M6	18	1.5	27	560	560	250
WJUME-01-10-AL	19	26	29	16	6.5	M6	18	1.5	27	560	560	250
WJUME-01-10-ES	56	26	29	16	6.5	M6	18	1.5	27	560	560	250
WJ200UME-01-10	110	34.5	36	18	9	M8	27	2.5	33	560	560	250
WJ200UME-01-16	110	34.5	36	18	9	M8	27	2.5	33	980	980	400
WJ200UME-01-16-AL	45	34.5	36	18	9	M8	27	2.5	33	980	980	400
WJ200UME-01-16-ES	132	34.5	36	18	9	M8	27	2.5	33	980	980	400
WJ200UME-01-20	222	42.5	45	27	9	M8	36	2.5	38	1,500	1,500	500
WJ200UME-01-20-AL	95	42.5	45	27	9	M8	36	2.5	38	1,500	1,500	500
WJ200UME-01-20-ES	275	42.5	45	27	9	M8	36	2.5	38	1,500	1,500	500
WJ200UME-01-25	431	52.5	58	36	11	M10	45	2.5	46.5	2,250	2,250	950
WJ200UME-01-25-AL	194	52.5	58	36	11	M10	45	2.5	46.5	2,250	2,250	950
WJ200UME-01-25-ES	539	52.5	58	36	11	M10	45	2.5	46.5	2,250	2,250	950

Can be combined with:

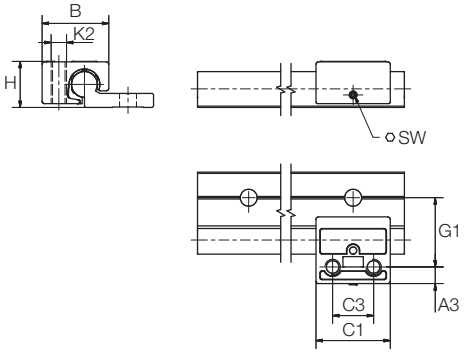
WS-... WS-..-ES-FG-... WS-... WS-...-ES-FG WSX-...

Suitable liner material:

iglidur® J iglidur® J200

drylin® W profile guides | Product range

Pillow blocks, round, with spring pre-load



Order key

Type	Size	Material
WJ200UM-01-16-□-P40		

drylin® W	Liner material iglidur® J200	Pillow block, round	Standard	Size	Housing material	Pre-load

Options:
Blank: Zinc die-casting (Zn)
AL: Aluminium
ES: Stainless steel (AISI 316Ti, machined)

Suitable mounting plate
▶ Page 1026

drylin® stop motion full product range online
▶ www.igus-asean.com/drylinstopmotion

Technical data and dimensions [mm]

Part No.	Spring colour	Pre-load	Weight (Zn)	-ES	-AL	B	C1	C3	A3	K2	H	SW	G1
		[N]	[g]	[g]	[g]						±0.25		
WJ200UM-01-10-□-P40	blue	4	43	56	19	26	29	16	6.5	M6	18	1.5	27
WJ200UM-01-10-□-P90	yellow	9	43	56	19	26	29	16	6.5	M6	18	1.5	27
WJ200UM-01-10-□-P140	red	14	43	56	19	26	29	16	6.5	M6	18	1.5	27
WJ200UM-01-16-□-P40	blue	4	110	132	46	34.5	36	18	9	M8	27	2.5	33
WJ200UM-01-16-□-P90	yellow	9	110	132	46	34.5	36	18	9	M8	27	2.5	33
WJ200UM-01-16-□-P140	red	14	110	132	46	34.5	36	18	9	M8	27	2.5	33
WJ200UM-01-16-□-P230	green	23	110	132	46	34.5	36	18	9	M8	27	2.5	33
WJ200UM-01-20-□-P40	blue	4	222	275	95	42.5	45	27	9	M8	36	2.5	38
WJ200UM-01-20-□-P90	yellow	9	222	275	95	42.5	45	27	9	M8	36	2.5	38
WJ200UM-01-20-□-P140	red	14	222	275	95	42.5	45	27	9	M8	36	2.5	38
WJ200UM-01-20-□-P230	green	23	222	275	95	42.5	45	27	9	M8	36	2.5	38

Can be combined with:

WS-... WS-..-ES-FG-... WS-... WS-...-ES-FG WSX-...

Suitable liner material:

iglidur® J iglidur® J200

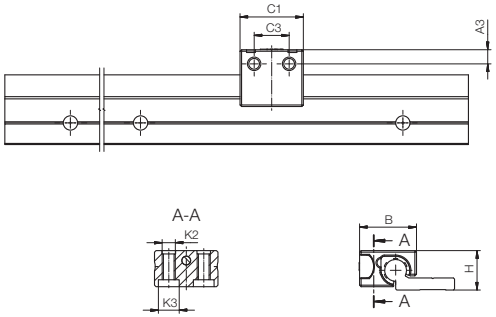
drylin® W profile guides | Product range

Pillow blocks, round; change the liner without disassembly

Order key

Type	Size
WJ200UM A	-01-10-AL

drylin® W	Liner material iglidur® J200	Pillow block, round	Replaceable	Standard	Size	Aluminium



Technical data and dimensions [mm]

Part No.	Weight	B	C1	C3	A3	K2	K3[150)]	H	Static load capacity		
									Coy	Coz+	Coz–
	[g]							±0.25	[N]	[N]	[N]
WJ200UMA-01-10-AL	18	26.0	29	16	6.5	M6	M5	18	1,000	1,000	200
WJ200UMA-01-16-AL New	44	34.5	36	18	9.0	M8	M6	27	1,250	1,250	275
WJ200UMA-01-20-AL New	91	42.5	45	27	9.0	M8	M6	36	1,500	1,500	350

[150)] Counterbore for socket cap bolt

Suitable mounting plate
▶ Page 1026

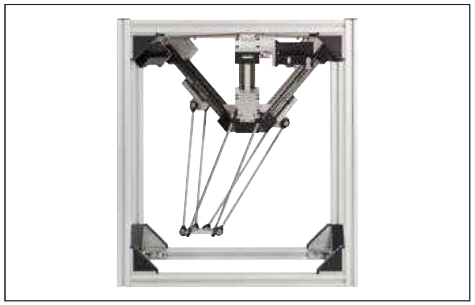
More installation can be found online
▶ www.igus-asean.com/replacement-bearing-installation

Can be combined with:

Suitable liner material/accessories

drylin® W profile guides | Application examples

drylin® W pillow blocks for longer and more reliable operating times



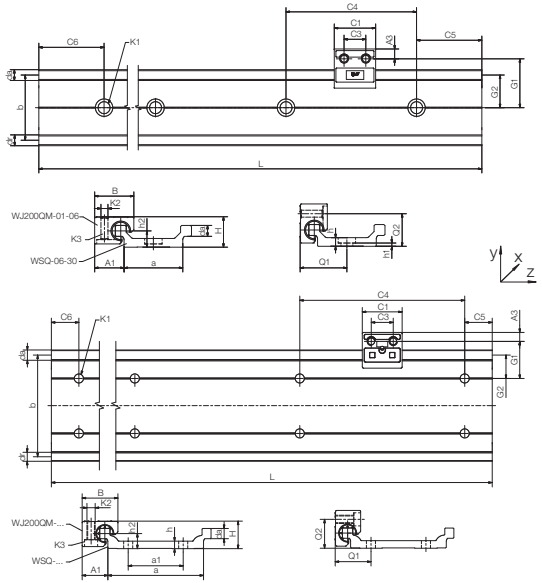
Application in delta robots
Pillow block with interchangeable WJ200UMA liner for drylin® delta robots ▶ **Page 1447.**

Quick bearing replacement directly on the rail
For 24/7 operation. Simple replacement without disassembly, with assembly tool. All existing drylin® W systems can be retrofitted

Installation guide online
▶ **www.igus-asean.com/WJUMA**

drylin® W profile guides | Product range

Double rails, square, hard-anodised aluminium



Hard-anodised surfaces
▶ Page 958

Curved rail profiles
▶ Page 962

Technical data and dimensions [mm]

Part No.	Weight	H[57]	da	dr	L	a	A1	b	h	h1	h2	G1	G2	a1[61]	Q1	Q2
	[kg/m]	±0.25	–0.1		Max.											
WSQ-06-30	0.45	14	5	5	3,000	27–0.4	13.5	30	4	4[58]	7.5	22.5	15	–	21.5	15
WSQ-06-60	0.70	14	5	5	3,000	58–0.4	13.5	61	4	4[58]	7.0	42.5	30.5	40	17	15
WSQ-10-40	0.92	20	75	6.7	4,000	36–0.5	18.5	40	5.5	5.5[58]	11	30	20	–	29	21
WSQ-10-80	1.41	20	7.5	6.7	4,000	70–0.7	18.5	74	5.5	5.5[58]	11	27	17	40	26	21
WSQ-10-120	2.02	20	7.5	6.7	4,000	116–0.7	18.5	120	5.5	5.5[58]	11	30	20	80	29	21
WSQ-16-60	1.84	27	11.5	10.7	4,000	54–0.5	35.5	58	7.5	3.5	14	43	29	–	42	28
WSQ-20-80	3.30	36	15	14.1	4,000	74–0.7	30.0	82	9.5	4.5	20	38	21	40	37	37

Part No.	C4	C5		C6		K1 for screw	Geometrical moment of inertia		Moment of resistance	
		Min.	Max.	Min.	Max.		Iy	Iz	Wby	Wbz
						DIN 912	[mm⁴]	[mm⁴]	[mm³]	[mm³]
WSQ-06-30	60	20	49.5	20	49.5	M5[58]	19,000	1,250	1,100	200
WSQ-06-60	60	20	49.5	20	49.5	M5[58]	117,900	1,600	3,500	290
WSQ-10-40	120	20	79.5	20	79.5	M6[58]	71,600	5,580	3,000	610
WSQ-10-80	120	20	79.5	20	79.5	M6[58]	335,000	7,070	8,300	700
WSQ-10-120	120	20	79.5	20	79.5	M6[58]	1,175,000	8,000	18,400	760
WSQ-16-60	120	20	79.5	20	79.5	M8	324,700	20,500	9,400	1,700
WSQ-20-80	120	20	79.5	20	79.5	M8	1,145,000	75,300	23,600	4,500

[57] Height dimension minus the bearing clearance tolerance [58] With plain holes
[61] WSQ-06-30/-10-40/-16-60 a single row of mounting holes down the centreline, WSQ-06-60/10-80/-10-120/-20-80 two parallel rows of mounting holes

Can be combined with:

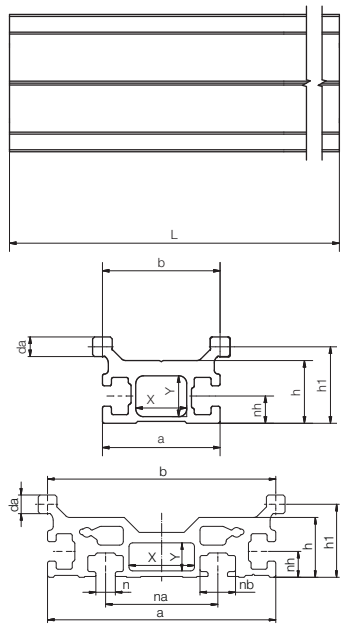

WJQM-...


WW-...

WWC-...

drylin® W profile guides | Product range

High profile rails, square, hard-anodised aluminium



Suitable end caps
▶ Page 1025

Order example:
WSX-06-30/06-60: High profile rail, square
WSQ-06-30: Standard double rail, square

Technical data and dimensions [mm]

Part No.	Weight	da	L	a	b	h	h1	nh	n	nb	na	X	Y	Geometrical moment of inertia		Moment of resistance	
														Iy	Iz	Wby	Wbz
	[kg/m]	–0.1	Max.											[mm⁴]	[mm⁴]	[mm³]	[mm³]
WSX-06-30	0.76	5	4,000	29.7	30	16	19.5	7	–	–	–	12	10	30,391	11,674	1,736	845
WSX-06-60	1.39	5	4,000	61	61	16	19.5	6.9	5.2	9.5	30	17.5	7.5	212,826	17,018	6,448	1,398

Order key

Type	Length
WS Q - 06 - 30	- 3000
Profile rail	
Square	
Shaft Ø	
Rail width [mm]	
Rail length [mm]	

Order key

Type	Length
WS X - 06 - 30	- 4000
Profile rail	
High profile rail	
Shaft Ø	
Rail width [mm]	
Rail length [mm]	

Can be combined with:


WJQM-...


WW-...

WWC-...

drylin® W profile guides | Product range

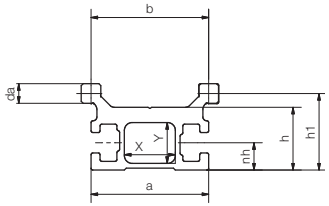
Linear guides – lightweight, non-metallic, strong and X-ray transparent

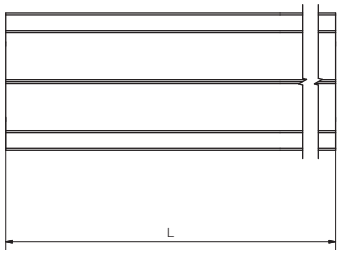
Order key

Type	Dimensions [mm]/Type

W S P C-06-30-1000

drylin® W	Rail	Plastic	Carbon fibre	Shaft Ø	Rail width	Rail length





Technical data – guide rail

Part No.	F max. radial		Weight	Iy	Iz
	stat.	dyn.			
	[N]	[N]	[g/m]	[mm⁴]	[mm⁴]
WSPC-06-30	300	60	410	30,391	11,674

Dimensions [mm] – guide profile

Part No.	a	b	da –0.1	h	h1	nh	X	Y	L
WSPC-06-30	30	30	5	16	19.5	7	13	10	3,000

drylin® W profile guides | Product range

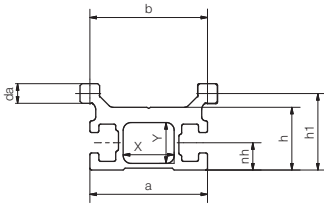
Linear guides – lightweight, non-metallic, strong and cost-effective

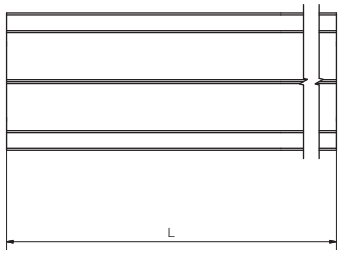
Order key

Type	Dimensions [mm]/Type

W S P G-06-30-1000

drylin® W	Rail	Plastic	Fibreglass	Shaft Ø	Rail width	Rail length





Technical data – guide rail

Part No.	F max. radial		Weight	Iy	Iz
	stat.	dyn.			
	[N]	[N]	[g/m]	[mm⁴]	[mm⁴]
WSPG-063001	200	50	505	30,391	11,674

Dimensions [mm] – guide profile

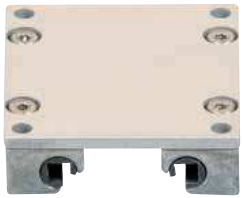
Part No.	a	b	da –0.1	h	h1	nh	X	Y	L
WSPG-063001	30	30	5	16	19.5	7	13	10	2,000

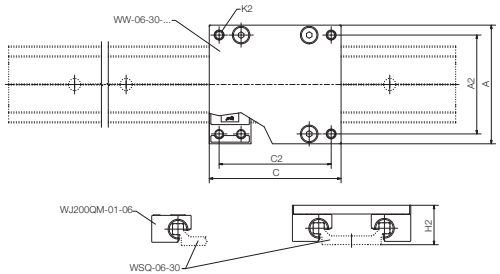
Dimensions [mm] – complete system

Part No.	H	A1	A	A2	C	C2
WSPG-063001	30	12	52	45	60	51

drylin® W profile guides | Product range

Guide carriages, assembled, square





Order key

Type	Size
WW Q	-06-30-06

Guide carriage	Square	Shafts-Ø [mm]	Profile width	Carriage length

Technical data and dimensions [mm]

Part No.[54]	Weight	A	C	A2	C2	K2	H2[57]	Static load capacity				
		Width	Length				±0.25	Coy	Coz	Mox	Moy	Moz
	[kg]							[N]	[N]	[Nm]	[Nm]	[Nm]
WWQ-06-30-06	0.10	54	60	45	51	M4	18	1,680	840	25	34	34
WWQ-06-30-08	0.11	54	80	45	71	M4	18	1,680	840	25	51	51
WWQ-06-30-10	0.12	54	100	45	91	M4	18	1,680	840	25	68	68
WWQ-06-60-06	0.13	85	60	76	51	M4	18	1,680	840	50	34	34
WWQ-06-60-08	0.15	85	80	76	71	M4	18	1,680	840	50	51	51
WWQ-06-60-10	0.17	85	100	76	91	M4	18	1,680	840	50	68	68
WWQ-10-40-10	0.29	73	100	60	87	M6	26	4,800	2,400	96	170	170
WWQ-10-40-15	0.34	73	150	60	137	M6	26	4,800	2,400	96	290	290
WWQ-10-40-20	0.40	73	200	60	187	M6	26	4,800	2,400	96	410	410
WWQ-10-80-10	0.34	107	100	94	87	M6	26	4,800	2,400	178	170	170
WWQ-10-80-15	0.42	107	150	94	137	M6	26	4,800	2,400	178	290	290
WWQ-10-80-20	0.50	107	200	94	187	M6	26	4,800	2,400	178	410	410
WWQ-10-120-10	0.41	153	100	140	87	M6	26	4,800	2,400	288	170	170
WWQ-10-120-15	0.54	153	150	140	137	M6	26	4,800	2,400	288	290	290
WWQ-10-120-20	0.66	153	200	140	187	M6	26	4,800	2,400	288	410	410
WWQ-16-60-10	0.71	104	100	86	82	M8	35	8,400	4,200	240	270	270
WWQ-16-60-15	0.84	104	150	86	132	M8	35	8,400	4,200	240	480	480
WWQ-16-60-20	0.97	104	200	86	182	M8	35	8,400	4,200	240	690	690
WWQ-20-80-15	1.20	134	150	116	132	M8	44	12,800	6,400	525	670	670
WWQ-20-80-20	1.30	134	200	116	182	M8	44	12,800	6,400	525	990	990
WWQ-20-80-25	1.50	134	250	116	232	M8	44	12,800	6,400	525	1,250	1,250

[57] Height dimension minus the bearing clearance tolerance [64] Optional with manual clamp, suffix "-HKA"

Can be combined with:

WSQ-...

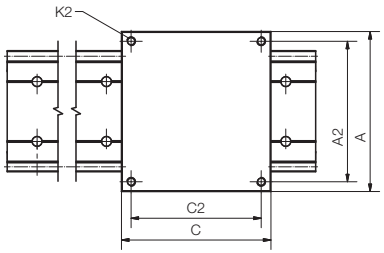

WSXQ-...

Suitable liner material:


iglidur® J200

drylin® W profile guides | Product range

Mono-slide carriages, anodised aluminium



Order key

Type	Size
WWC	-10-40-10

Mono-slide guide carriage	Shafts-Ø [mm]	Profile width	Carriage length

Technical data and dimensions [mm]

Part No.	Weight	A	C	A2	C2	K2	H2[57]	Static load capacity				
		Width	Length				±0.2	Coy	Coz	Mox	Moy	Moz
	[kg]							[N]	[N]	[Nm]	[Nm]	[Nm]
WWC-06-30-06	0.07	54	60	45	51	M4	16	1,680	840	25	34	34
WWC-06-30-08	0.09	54	80	45	71	M4	16	1,680	840	25	51	51
WWC-06-30-10	0.12	54	100	45	91	M4	16	1,680	840	25	68	68
WWC-10-40-10	0.21	73	100	60	87	M6	22	4,800	2,400	96	170	170
WWC-10-40-15	0.32	73	150	60	137	M6	22	4,800	2,400	96	290	290
WWC-10-40-20	0.42	73	200	60	187	M6	22	4,800	2,400	96	410	410
WWC-10-80-10	0.28	107	100	94	87	M6	22	4,800	2,400	178	170	170
WWC-10-80-15	0.42	107	150	94	137	M6	22	4,800	2,400	178	290	290
WWC-10-80-20	0.56	107	200	94	187	M6	22	4,800	2,400	178	410	410
WWC-10-120-10	0.36	153	100	140	87	M6	22	4,800	2,400	288	170	170
WWC-10-120-15	0.54	153	150	140	137	M6	22	4,800	2,400	288	290	290
WWC-10-120-20	0.72	153	200	140	187	M6	22	4,800	2,400	288	410	410
WWC-16-60-10	0.41	104	100	86	82	M8	30	8,400	4,200	240	270	270
WWC-16-60-15	0.61	104	150	86	132	M8	30	8,400	4,200	240	480	480
WWC-16-60-20	0.80	104	200	86	182	M8	30	8,400	4,200	240	690	690
WWC-20-80-15	0.99	134	150	116	132	M8	40	12,800	6,400	525	670	670
WWC-20-80-20	1.33	134	200	116	182	M8	40	12,800	6,400	525	990	990
WWC-20-80-25	1.66	134	250	116	232	M8	40	12,800	6,400	525	1,250	1,250

[57] Height dimension minus the bearing clearance tolerance

Can be combined with:

WSQ-...

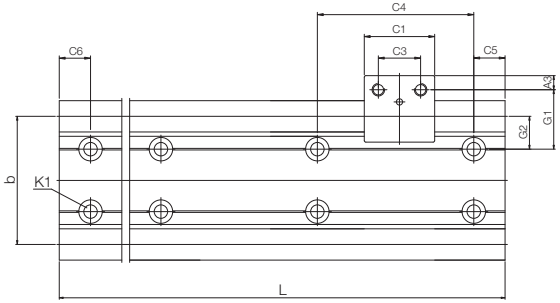

WSXQ-...

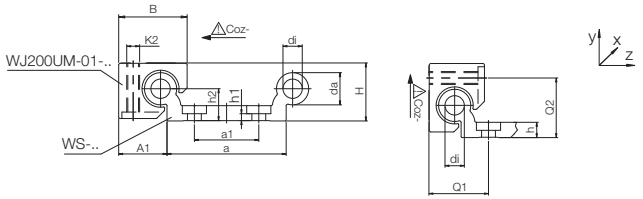
Suitable liner material:


iglidur® J

drylin® W profile guides | Product range

Double rails, round, hard-anodised aluminium





This orientation not possible for WS-10-40/ WS-10-80/WS-10-120

Hard-anodised surfaces
▶ Page 958

Curved rail profiles
▶ Page 962

Technical data and dimensions [mm]

Part No.	Weight	H[57]	da	di	L	a	A1	b	h	h1	h2	G1	G2	a1[62]	Q1	Q2
	[kg/m]	±0.25			Max.											
WS-10-30	0.85	18	10–0.1	–	4,000	30–0.5	16.5	30	5.5	5.5[58]	9	25	15	–	–	–
WS-10-40	1.00	18	10–0.1	–	4,000	40–0.5	16.5	40	5.5	5.5[58]	9	30	20	–	–	–
WS-10-80	1.50	18	10–0.1	–	4,000	74–0.7	16.5	74	5.5	5.5[58]	9	27	17	40	–	–
WS-10-120	2.02	18	10–0.1	–	4,000	120–0.7	16.5	120	5.5	5.5[58]	9	30	20	80	–	–
WS-16-60	1.96	27	16–0.1	8.0	4,000	54–0.5	25.0	58	7.5	3.5	14	43	29	–	32	28
WS-20-80	3.30	36	20–0.1	10.2	4,000	74–0.7	30.0	82	9.5	4.5	20	38	21	40	37	37
WS-25-120	5.8	45	25–0.15	14.0	4,000	120–0.7	37.5	131	11.5	5.5	25	46.5	25.5	80	45.5	46

[57] Height dimension minus the bearing clearance tolerance

[62] WS-10-40/-16-60 a single row of mounting holes down the centreline; WS-10-80/-10-120/-20-80/-25-120 two parallel rows of mounting holes

Part No.	C4	C5		C6		K1 for screw	Geometrical moment of inertia		Moment of resistance	
		Min.	Max.	Min.	Max.		Iy	Iz	Wby	Wbz
						DIN 912	[mm⁴]	[mm⁴]	[mm³]	[mm³]
WS-10-30	120	20	79.5	20	79.5	M5[58]	47,500	4,400	2,370	540
WS-10-40	120	20	79.5	20	79.5	M6[58]	91,000	5,100	3,600	590
WS-10-80	120	20	79.5	20	79.5	M6[58]	388,000	6,100	9,200	650
WS-10-120	120	20	79.5	20	79.5	M6[58]	1,303,000	7,100	20,000	720
WS-16-60	120	20	79.5	20	79.5	M8	367,600	26,100	9,900	1,900
WS-20-80	120	20	79.5	20	79.5	M8	1,080,000	78,700	21,000	4,000
WS-25-120	150	25	99.5	25	99.5	M10	4,867,000	215,000	62,400	8,500

Standard hole pattern: C5 = C6, please order with drawing for C5 ≠ C6.

[58] Plain holes

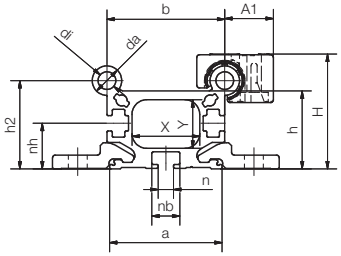
drylin® W profile guides | Product range

High profile rails, round, hard-anodised aluminium

WSX-10-40

WSX-10-80

WSX-16-60



Technical data and dimensions [mm]

Part No.	Weight	H[57]	da	di	L	a	A1	b	h	h2	s	K1	C1	C3	G1
	[kg/m]	±0.25	–0.1		Max.										
WSX-10-40	1.3	39 ±0.02	10	6	4,000	38.2	16.5	40	26.5	30	60	M6	29	16	30
WSX-10-80	2	39 ±0.02	10	6	4,000	72.2	16.5	74	26.5	30	94	M6	29	16	47
WSX-16-60	4.2	65 ±0.02	16	6	4,000	62	25	58	49	52	100	M8	36	18	50

nh	n	nb	X	Y	Surface inertia-moment		Moment of resistance	
					Iy	Iz	Wby	Wbz
					[mm⁴]	[mm⁴]	[mm³]	[mm³]
15.5	5.2	9.5	23	16	97,560	54,910	3,902	3,074
15.5	5.2	9.5	55	16	483,653	83,613	11,515	4,684
27.6	10	15.4	40	27.0	540,876	773,489	14,618	24,586

[57] Height dimension minus the bearing clearance tolerance

Order key

Type	Length
WS-	10 - 40 - 3000

- Profile rail, round
- Shaft Ø
- Rail width [mm]
- Rail length [mm]

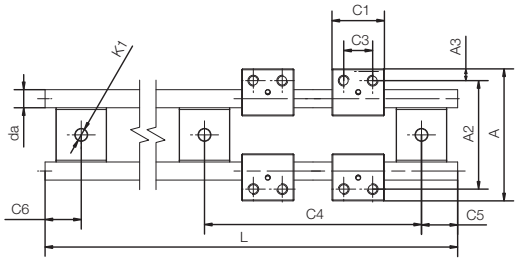
Order key

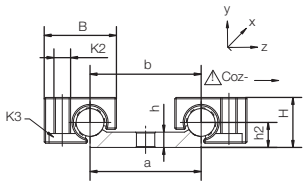
Type	Length
WS X -	10 - 40 - 4000

- Profile rail
- High profile rail
- Shaft Ø
- Rail width [mm]
- Rail length [mm]

drylin® W profile guides | Product range

Double rail made of 316 stainless steel





Installation size 10 – 20	
Housing and shaft support material	AISI 316
Shaft material	AISI 316Ti
Installation size 25	
Shaft, shaft support and housing material	AISI 316Ti

Technical data and dimensions [mm]

Part No.	Weight	H[57]	da	L	a	b	h	h2	A	A2
	[kg/m]	±0.25	h9	Max.	–0.3					
WS-10-40-ES-FG	1.58	18	10	3,000	40	40	5.5	9	73	60

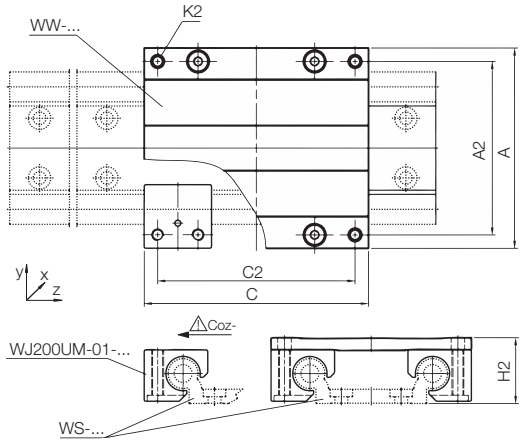
Part No.	C4	C5 Min.	C5 Max.	C6 Min.	C6 Max.	K1 for screw DIN 912
WS-10-40-ES-FG	120	20	79.5	20	79.5	M6

[57] Height dimension minus the bearing clearance tolerance

drylin® W profile guides

drylin® W profile guides | Product range

Assembled guide carriages, round



In the following sizes, also available with adjustable bearing clearance:
10, 16 and 20; order example: WWE-10-40-15

Technical data and dimensions [mm]

Part No.[64]	Weight	A	C	A2	C2	K2	H2[57]	Static load capacity				
		Width	Length				±0.25	Coy	Coz	Mox	Moy	Moz
	[kg]							[N]	[N]	[Nm]	[Nm]	[Nm]
WW-10-30-08	0.26	63	80	50	67	M6	24	4,800	2,400	72	120	120
WW-10-30-10	0.28	63	100	50	87	M6	24	4,800	2,400	72	170	170
WW-10-30-15	0.32	63	150	50	137	M6	24	4,800	2,400	72	290	290
WW-10-40-10	0.29	73	100	60	87	M6	24	4,800	2,400	96	170	170
WW-10-40-15	0.34	73	150	60	137	M6	24	4,800	2,400	96	290	290
WW-10-40-20	0.40	73	200	60	187	M6	24	4,800	2,400	96	410	410
WW-10-80-10	0.34	107	100	94	87	M6	24	4,800	2,400	178	170	170
WW-10-80-15	0.42	107	150	94	137	M6	24	4,800	2,400	178	290	290
WW-10-80-20	0.50	107	200	94	187	M6	24	4,800	2,400	178	410	410
WW-10-120-10	0.41	153	100	140	87	M6	24	4,800	2,400	288	170	170
WW-10-120-15	0.54	153	150	140	137	M6	24	4,800	2,400	288	290	290
WW-10-120-20	0.66	153	200	140	187	M6	24	4,800	2,400	288	410	410
WW-16-60-10	0.71	104	100	86	82	M8	35	8,400	4,200	240	270	270
WW-16-60-15	0.84	104	150	86	132	M8	35	8,400	4,200	240	480	480
WW-16-60-20	0.97	104	200	86	182	M8	35	8,400	4,200	240	690	690
WW-20-80-15	1.20	134	150	116	132	M8	44	12,800	6,400	525	670	670
WW-20-80-20	1.30	134	200	116	182	M8	44	12,800	6,400	525	990	990
WW-20-80-25	1.50	134	250	116	232	M8	44	12,800	6,400	525	1,250	1,250
WW-25-120-15	2.54	195	150	173	128	M10	55	19,200	9,600	1,250	880	880
WW-25-120-20	2.80	195	200	173	178	M10	55	19,200	9,600	1,250	1,360	1,360
WW-25-120-25	3.07	195	250	173	228	M10	55	19,200	9,600	1,250	1,840	1,840

[57] Height dimension minus the bearing clearance tolerance [64] Optional with manual clamp, suffix "-HKA"

Can be combined with:

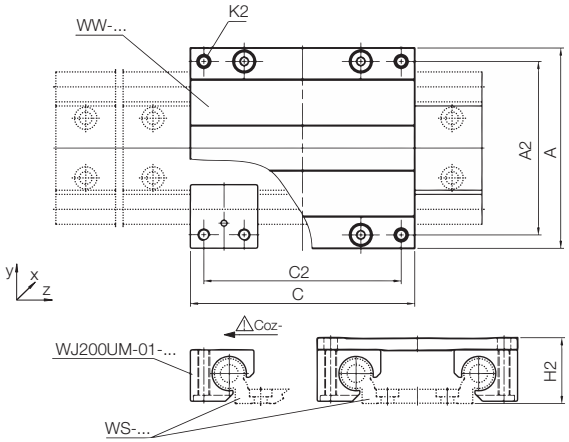
WS-... WS-...-ES-FG WSX-...

Suitable liner material:

iglidur® J iglidur® J200 iglidur® X iglidur® E7 iglidur® A180

drylin® W profile guides | Product range

Assembled stainless steel guide carriages, round



Technical data and dimensions [mm]

Part No.[64]	Weight	A	C	A2	C2	K2	H2[57]	Static load capacity				
		Width	Length				±0.25	Coy	Coz	Mox	Moy	Moz
	[kg]							[N]	[N]	[Nm]	[Nm]	[Nm]
WW-10-40-10-J200-GESG-PES	0.29	73	100	60	87	M6	24	4,800	2,400	96	170	170
WW-10-40-15-J200-GESG-PES	0.34	73	150	60	137	M6	24	4,800	2,400	96	290	290
WW-10-40-20-J200-GESG-PES	0.40	73	200	60	187	M6	24	4,800	2,400	96	410	410

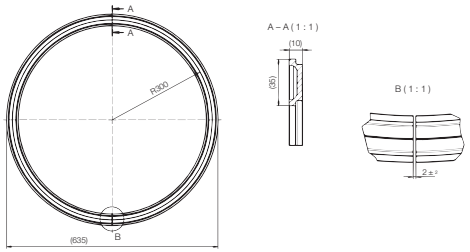
[57] Height dimension minus the bearing clearance tolerance [64] Optional with manual clamp, suffix "-HKA"

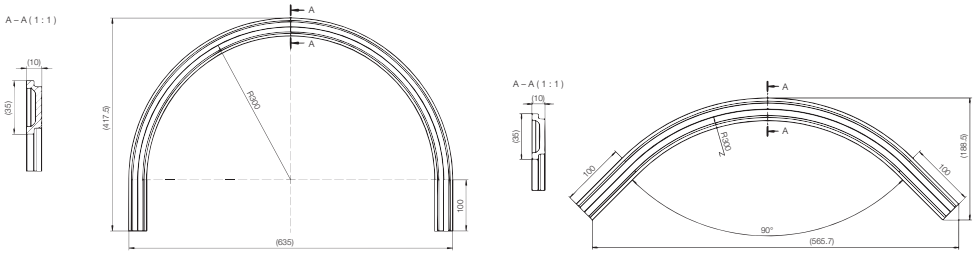
My sketches

drylin® W profile guides | Product range

Curved rail profiles, square

WSB-06-30-RK300QS





More information
▶ www.igus-asean.com/curved

Curved rail profiles
▶ Page 962

Technical data and dimensions [mm]

Part No.	Matching carriage for curved rail	Design	Bend radius	End straight
WSB-06-30-RK300F[151)]	WWB-06-30-06-R300	Full circle	300	–
WSB-06-30-RK300HS	WWB-06-30-06-R300	Half circle	300	100
WSB-06-30-RK300QS	WWB-06-30-06-R300	Quarter circle	300	100
WSB-06-30-RK500HS	WWB-06-30-06-R500	Half circle	500	100
WSB-06-30-RK500QS	WWB-06-30-06-R500	Quarter circle	500	100

[151)] The F version (full circle) has a transition of 2mm (±0.2). Due to the bending process, material displacement tolerances, which can be up to several millimetres depending on the bend direction and radius, must be taken into account.

RK: Radius curved bending
S: Straight rail ends in the case of semicircle and quarter circle

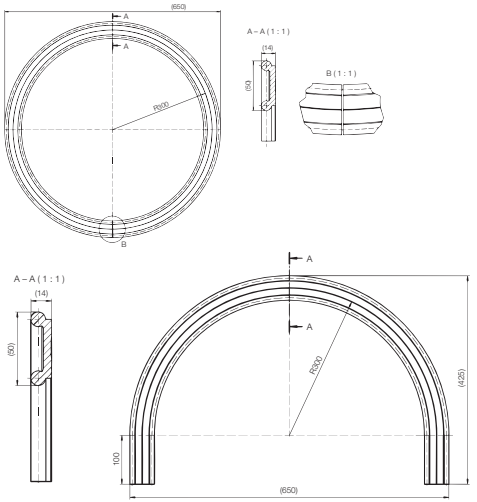
Can be combined with:

WWB-...

drylin® W profile guides | Product range

Curved rail profiles, round

WSB-10-40-RK300QS



Order key

Type	Size	Option
WSB-06-30-	RK 300	- F

Curved rail profile	Shaft Ø	Profile width [mm]	RK: Radius curved bending	With spring pre-load	Full circle

Technical data and dimensions [mm]

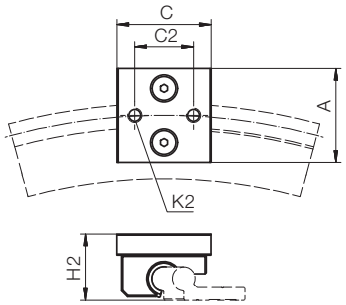
Part No.	Matching carriage for curved rail	Design	Bend radius	End straight
WSB-10-40-RK300F[151)]	WWB-10-40-10-R300	Full circle	300	–
WSB-10-40-RK300HS	WWB-10-40-10-R300	Half circle	300	100
WSB-10-40-RK300QS	WWB-10-40-10-R300	Quarter circle	300	100
WSB-10-40-RK500F[151)]	WWB-10-40-10-R500	Full circle	500	–
WSB-10-40-RK500HS	WWB-10-40-10-R500	Half circle	500	100
WSB-10-40-RK500QS	WWB-10-40-10-R500	Quarter circle	500	100

[151)] The F version (full circle) has a transition of 2mm (±0.2). Due to the bending process, material displacement tolerances, which can be up to several millimetres depending on the bend direction and radius, must be taken into account.

RK: Radius curved bending
S: Straight rail ends in the case of semicircle and quarter circle

drylin® W profile guides | Product range

Single bearings for curved rails



Order key

Type	Option	Option
WI3U B P	-01-10	-LLZ

drylin® W	Liner material iglidur® I3	Curved	Pre-load	Standard	Size	Floating bearing in y-direction

Dimensions [mm]

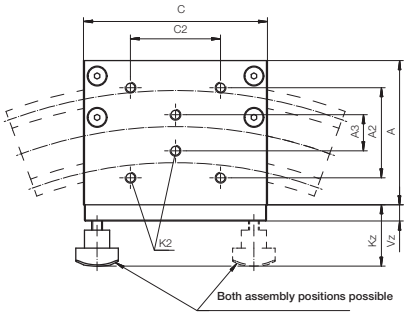
Part No.	Weight [g]	A	C	C2	K2	H2
WI3UBP-01-10	50	40	40	25	M6	28
WI3UBP-01-10-R300-LLZ	44	40	40	25	M6	28
WI3UBP-01-10-R500-LLZ	44	40	40	25	M6	28
WI3UBP-01-10-LLZ	44	40	40	25	M6	28

Can be combined with:

WSB-...

drylin® W profile guides | Product range

Carriage for curved rail



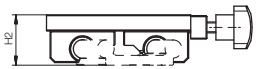
Order key

Type	Size	Option
WWB-10	-40	-10-P-HKA

Guide carriage for curved rails	Shaft Ø	Profile width [mm]	Carriage length [mm]	With spring pre-load	With manual clamp

Options:
Blank: Standard
HKA: With manual clamp

Curved rail profiles
▶ Page 962



Technical data and dimensions [mm]

Part No.[64]	Weight [kg]	A ±0.25	C –0.1	A2	A3	C2	K2	H2	Vz	Kz
WWB-06-30-06	0.31	58	60	30	16	30	M4	20	9	34
WWB-06-30-06-P	0.31	58	60	30	16	30	M4	20	7.5	29
WWB-06-30-06-R300[143]-P	0.31	58	60	30	16	30	M4	20	7.5	29
WWB-10-40-10	0.35	80	102	50	20	50	M6	28	9	34
WWB-10-40-10-P	0.35	80	102	50	20	50	M6	28	9	34
WWB-10-40-10-R300[143]-P	0.35	80	102	50	20	50	M6	28	9	34

[64] Optional with manual clamp, suffix "-HKA"
[143] Optional for 500mm radius = R500

Can be combined with:

WS-...

WS-...-ES-FG

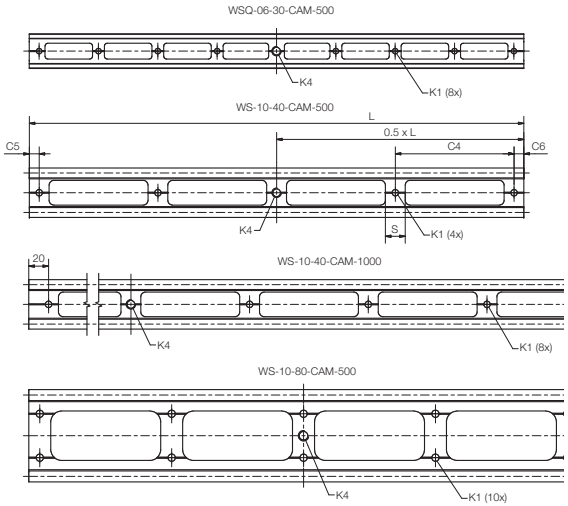
WSB-...

More information
▶ www.igus-asean.com/curved

drylin® W profile guides | Product range

Double rails, reduced weight, hard-anodised aluminium

- 30% weight reduction through machined recesses
- Suitable pillow blocks and carriages made from plastic, aluminium, zinc die-casting or stainless steel



drylin® W guide rails – dimensions [mm]

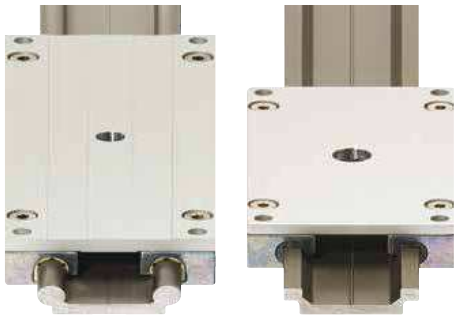
Part No.	Identical profile	L	C4	C5	C6	S	K1 for screw DIN 192	K4	Weight [g]
WSQ-06-30-CAM-500	WSQ-06-30	500	60	10	10	12	M5	3/8" 16-UNC[63]	159
WS-10-40-CAM-500	WS-10-40	500	120	10	10	20	M6	3/8" 16-UNC[63]	353
WS-10-40-CAM-1000	WS-10-40	1,000	120	20	20	20	M6	3/8" 16-UNC[63]	706
WS-10-80-CAM-500	WS-10-80	500	120	10	10	20	M6	3/8" 16-UNC[63]	482

[63] UNC = Unified National Coarse, Anglo-American. Screw thread standard

Application example:
camera slider with standard rail and carriage
▶ www.igus-asean.com/camera

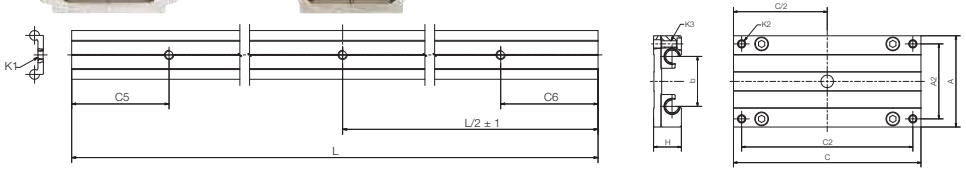
drylin® W profile guides | Product range

Double rails/carriages for camera slider



- Wear-resistant, smooth and quiet motion
- Adjustable brake level due to the turn-to-fit function
- Easy and fast assembly
- Further dimensions such as standard WS rails
  ▶ Page 992

Technical options:
- Adjustable bearing housing ▶ Page 982
- Manual clamp ▶ Page 1020



drylin® W special rails with 3 holes, 3/8" thread Dimensions [mm]

Part No.	Size	L	C5 ± 1	C6 ± 1	Weight [kg/m]
WSQ-06-30-SL-1000	06	1,000	100	100	0.45
WSQ-06-30-SL-1500	06	1,500	100	100	0.45
WS-10-30-SL-1000	10	1,000	100	100	0.85
WS-10-30-SL-1500	10	1,500	100	100	0.85
WS-10-40-SL-1500	10	1,500	100	100	1.00
WS-10-80-SL-1000	10	1,000	100	100	1.50
WS-10-80-SL-1500	10	1,500	100	100	1.50
WS-16-60-SL-1000	16	1,000	100	100	1.96
WS-16-60-SL-1500	16	1,500	100	100	1.96
WS-20-80-SL-1000	20	1,000	100	100	3.30
WS-20-80-SL-1500	20	1,500	100	100	3.30

drylin® W complete carriage with Ø 10mm through hole for 3/8" thread Dimensions [mm]

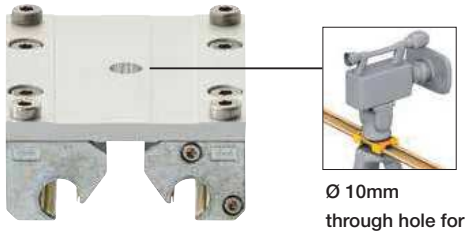
Part No.	Size	C	A
WW-06-30-06-SL	06	60	54
WW-06-30-08-SL	06	80	54
WW-06-30-10-SL	06	100	54
WW-10-30-10-SL[64) 65)]	10	100	63
WW-10-30-15-SL[64) 65)]	10	150	63
WW-10-40-10-SL[64) 65)]	10	100	73
WW-10-40-15-SL[64) 65)]	10	150	73
WW-10-40-20-SL[64) 65)]	10	200	73
WW-10-80-10-SL[64) 65)]	10	100	107

Part No.	Size	C	A
WW-10-80-15-SL[64) 65)]	10	150	107
WW-10-80-20-SL[64) 65)]	10	200	107
WW-16-60-10-SL[65)]	16	100	104
WW-16-60-15-SL[64) 65)]	16	150	104
WW-16-60-20-SL[64) 65)]	16	200	104
WW-20-80-15-SL[64) 65)]	20	150	134
WW-20-80-20-SL[64) 65)]	20	200	134
WW-20-80-25-SL[64) 65)]	20	250	134

[64] Optional with manual clamp, suffix "-HKA"
[65] Optional with adjustable "Turn-To-Fit" bearing (Order example: WWE-…)

drylin® W profile guides | Product range

Hybrid slider carriages with four double roller bearings:



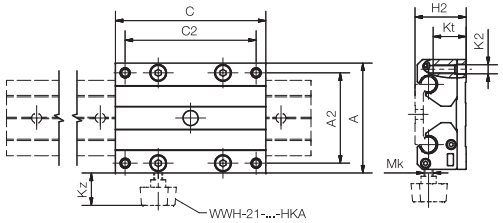
Ø 10mm through hole for 3/8" thread for cameras

Order key

Type	Dimensions	Design
W WH-	21-10-40-10-	SL

drylin® W	Hybrid carriage	Double roller bearing	Installation size	Carriage length [mm]	Slider carriage

Optional with manual clamp, suffix "-HKA"



Technical data and dimensions [mm]

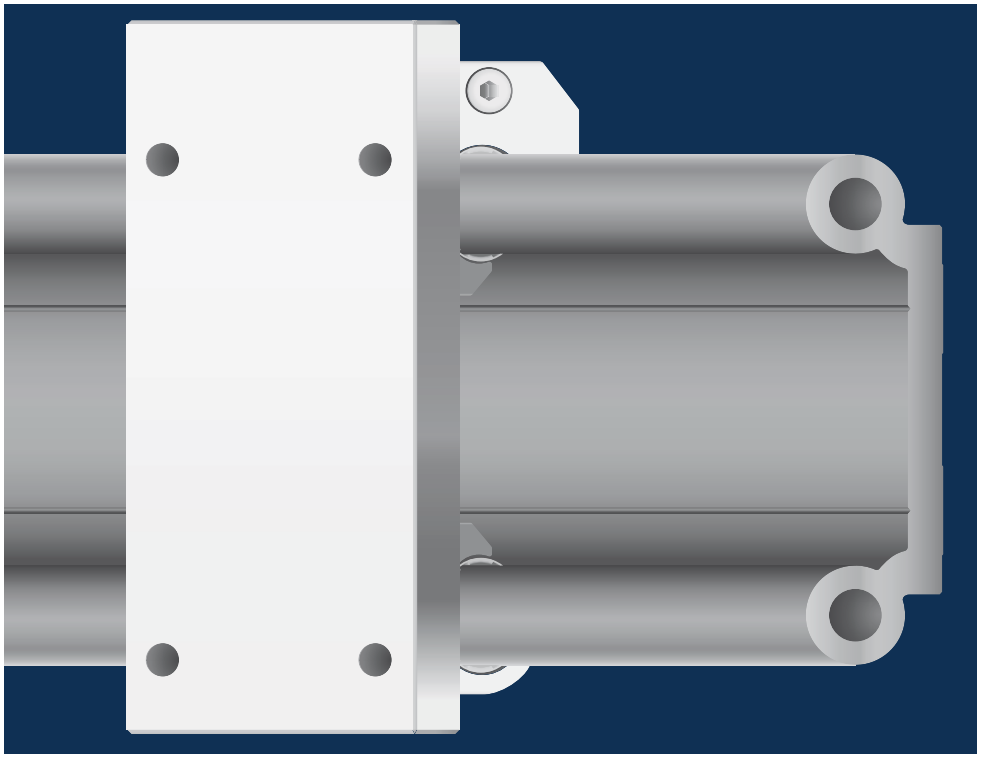
Part No.	Weight	A Width	C Length	A2	C2	K2	Kt	H2	Static load capacity Coy
	[kg]								[N]
WWH-21-10-40-10-SL	0.59	73	100	60	87	M6	21	34	1,400
WWH-21-10-40-15-SL	0.64	73	150	60	137	M6	21	34	1,400
WWH-21-10-40-20-SL	0.70	73	200	60	187	M6	21	34	1,400
WWH-21-10-80-10-SL	0.64	107	100	94	87	M6	21	34	1,400
WWH-21-10-80-15-SL	0.72	107	150	94	137	M6	21	34	1,400
WWH-21-10-80-20-SL	0.80	107	200	94	187	M6	21	34	1,400
WWH-21-16-60-10-SL	1.31	104	100	86	82	M8	29	49	2,400
WWH-21-16-60-15-SL	1.44	104	150	86	132	M8	29	49	2,400
WWH-21-16-60-20-SL	1.57	104	200	86	182	M8	29	49	2,400
WWH-21-20-80-15-SL	1.72	134	150	116	132	M8	24	57	3,360
WWH-21-20-80-20-SL	1.82	134	200	116	182	M8	24	57	3,360
WWH-21-20-80-25-SL	2.02	134	250	116	232	M8	24	57	3,360

Can be combined with:

WS-20-80 WS-...-ES-FG WSX-...

Can be combined with camera slider rails

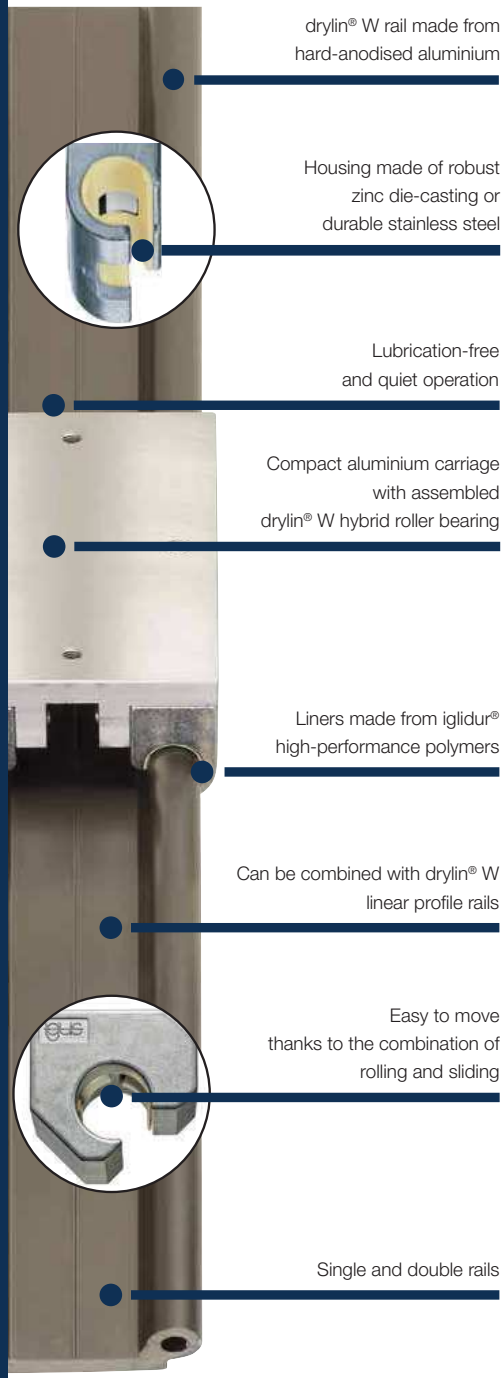
▶ Page 1002



drylin® linear technology – drylin® W hybrid roller bearings

- Lubrication-free roll and slide
- Low drive force
- For manual adjustment
- Suitable for radial loads
- Single bearings and complete carriages

Hybrid roller bearings from the drylin® W linear construction kit



Combined sliding and rolling for low driving forces

drylin® hybrid roller bearings offer an unique lubrication-free combination of plain and roller bearings. The integrated rollers achieve low driving forces, while the sliding effect simultaneously protect against radial loads. This makes drylin® hybrid roller bearings ideal for manual adjustments in door applications (e.g. machine doors, safety doors), but also in mobile control panels. The efficient design using plastics with zinc die-casting also cuts costs. Hybrid bearings can be used on various hard-anodised aluminium profiles from the drylin® W linear construction kit.

- Smooth operation
- Low-profile
- Offset and abuse forces are easily absorbed by sliding elements
- Location on rail ensures reliability
- Matching guide rails made from hard-anodised aluminium
- Low driving force required
- Cost-effective

Typical application areas

- Machine doors
- Safety doors
- Operator panels

Available from stock
Detailed information about delivery time online.

Price breaks online
No minimum order value. No minimum order quantity.

Service life calculation
▶ **www.igus-asean.com/drylin-expert**

Tightening torque for drylin® metallic screws
▶ **Page 963**

Slide and roll

Hybrid roller bearing rail

- Ideal for flat structures
- Geometry optimised for hybrid roller bearings
- Low profile design with wide support

▶ **Page 1010**

Hybrid roller bearing for WSR roller bearing rail

- Suitable for WAS hybrid roller bearing rail
- Hybrid roller bearing with double rollers for better force absorption
- Hybrid roller bearings with single rollers as support

▶ **Page 1011**

Hybrid roller bearings with single roller

- Lubrication-free due to bearing supported plastic roller
- Low displacement force
- Can be combined with drylin® W single and double rails

▶ **Page 1012**

Hybrid roller bearings with double rollers

- Low coefficient of rolling friction is still maintained with deviating load directions
- Increased load capacity
- Variable bearing removed, but the housing is now available in corrosion-resistant stainless steel as well.

▶ **Page 1013**

Complete carriages WWR

- Complete carriage for lateral adjustments
- Guidance via a double rail without support
- Also available as a short, compact carriage for variable multi-carriage solution

▶ **Page 1015**

Complete carriages WWH

- Complete carriage with 4 integrated hybrid roller bearings
- For horizontal installation
- Variable carriage lengths and widths

▶ **Page 1016**

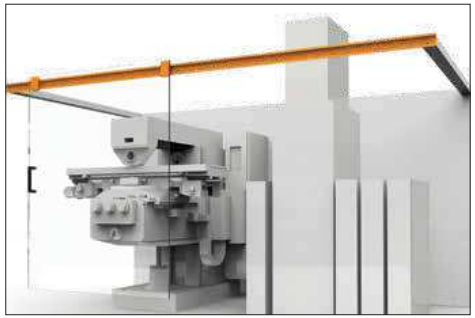
Suitable rail profiles
▶ **From page 978**

Camera slider
▶ **From page 1003**

The smooth, quiet operation and the enormous cost advantages are obtained by the use of the drylin® linear bearings on the hard-anodised guide shaft to guide the doors of machine tools.

Adjustment control panel unit

Camera stand with drylin® W hybrid roller bearings for far smoother running. Vertical movements are now also possible.



The new drylin® W hybrid carriage with "door opener" function.

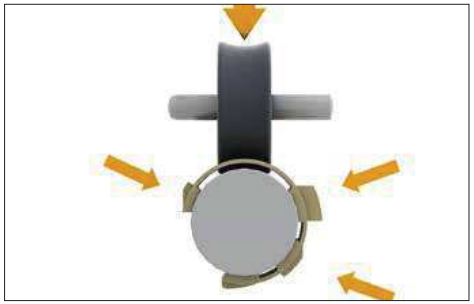
drylin® W hybrid roller bearings in combination with drylin® W profile guides offer optimum opportunities to construct dollies and sliders.

drylin® W hybrid roller bearings type 01

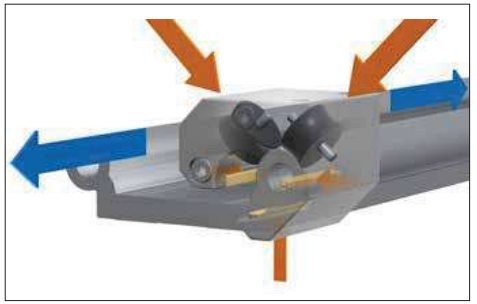
The drylin® W hybrid roller bearings from the WJRM-01-... type series are each equipped with a bearing-supported plastic roller. The bearing housing is available in three installation sizes and can be used with drylin® W single or double shaft rails in two installation positions. The hybrid roller bearing should be installed so that the load capacity is applied in the roll direction. Different load directions are possible but causes higher displacement forces.

drylin® W hybrid roller bearings type 21

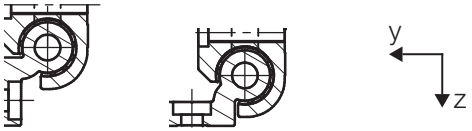
The drylin® W hybrid roller bearings in the WJRM-21-... type series are each equipped with two bearing-supported plastic rollers at an angle of 70° or 80°. Available in three installation sizes, they can be combined with drylin® W single and double rails. The double roller bearings offer a higher load capacity than with a vertical bearing load on the installation area (y-direction). The low coefficient of rolling friction is still maintained with load directions that slightly deviate from this.



Forces absorbed by hybrid roller bearing



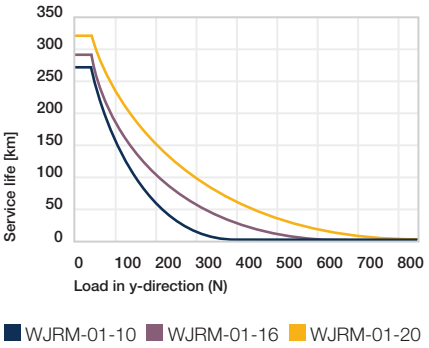
Hybrid double roller bearing applicable force absorption



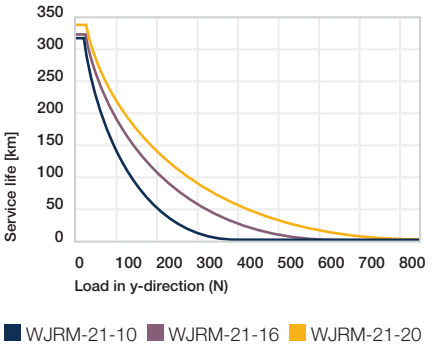
Installation position 01

Installation position 02

Installation position WJRM-01-...



Installation position WJRM-21-...



drylin® W hybrid roller bearings | Product range New

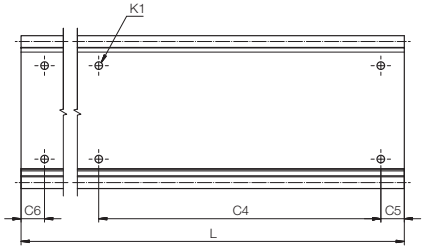
Hybrid rail for lateral installation

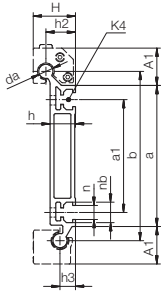
Order key

Type	Size

WSR-10-120-4000

- Hybrid lateral rail
- Shaft Ø
- Rail width [mm]
- Rail length [mm]





Technical data [mm]

Part No.		Geometrical moment of inertia		Moment of resistance		K1 for screw	K4 for slot nut	Weight
		Iy	Iz	Wby	Wbz			
		[mm⁴]	[mm⁴]	[mm³]	[mm³]			[kg/m]
WSR-10-120	New	1,443,000	38,700	22,000	2,600	M6	–	2.58
WSR-10-120-UNGEBOHRT	New	1,443,000	38,700	22,000	2,600	–	MSX-B-0001-M6	2.58

Dimensions [mm]

Part No.		H	da	L	a	A1	b	h	h2	h3	a1	n	nb	C4	C5 = C6	
		±0.25	–0.1	Max.	±0.6										Min.	Max.
WSR-10-120	New	30	10	4,000	100	26.5	120	18	21	11	80	10	14.5	240	20	199.5
WSR-10-120-UNGEBOHRT	New	30	10	4,000	100	26.5	120	18	21	11	80	10	14.5	–	–	–

Can be combined with:

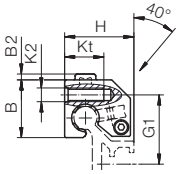
WJRM-31... WJRM-41...

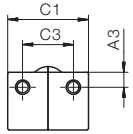
drylin® W hybrid roller bearings | Product range New

Hybrid roller bearing for lateral rail

WJRM-31-10

WJRM-41-10





WJRM-41

Order key

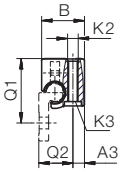
Type	Size

WJRM-31-10

- Hybrid roller bearing
- Double roller bearing
- Size 10

Options:
31: Single roller bearing, bottom assembly for better support
41: Double roller bearing, top assembly for better force absorption

Suitable mounting plate
▶ Page 1018



WJRM-31
Installation position 01

Technical data [mm]

Part No.		Static load capacity	Dyn. load capacity Cz+ at total running distance [km]			Coefficient of friction in z-direction	F · v	Weight
		Co	10	100	200		Max.	
		[N]	[N]	[N]	[N]	[µ]	[N · m/s]	[g]
WJRM-31-10	New	250	250	90	50	< 0.1	50	91
WJRM-41-10	New	250	250	90	50	< 0.1	50	97

Dimensions [mm]

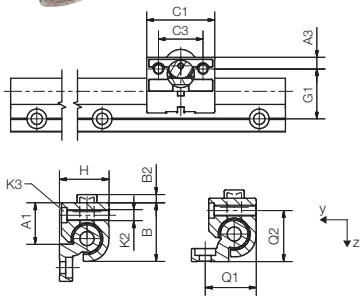
Part No.		A3	B	B2	C1	C3	H	G1	K2 for thread	K3 for screw	Q1	Q2	kt
WJRM-31-10	New	6.5	24	–	35	22	28	27	M6	M5	36	19	16
WJRM-41-10	New	6.5	25	2.5	35	22	30	30	M6	M5	–	–	–

Can be combined with:

WSR-...

drylin® W hybrid roller bearings | Product range

Hybrid roller bearings



Installation position 01

Installation position 02

Order key

Type	Size
WJRM-	01-10

Hybrid roller bearing

Single roller bearing

Size 10

Options:
Blank: Bearing supported plastic roller
BB: Ball bearing supported plastic roller

Suitable mounting plate
▶ Page 1018

Installation position 02 in installation size Ø 10 when using a WJRM-02-10 hybrid roller bearing

Technical data and dimensions [mm]

Part No.		Static load capacity Co [N]	Dyn. load capacity Cy+ at total running distance [km] 10 [N]	100 [N]	200 [N]	F · v Max. [N · m/s]	Weight [g]
WJRM-01-10[71]		250	250	90	50	50	46
WJRM-01-10-BB[71]	New	250	250	90	50	100	46
WJRM-01-16		400	400	140	70	80	131
WJRM-01-16-BB	New	400	400	140	70	160	131
WJRM-01-20		550	550	200	100	80	232
WJRM-01-20-BB	New	550	550	200	100	160	232

Part No.		Coefficient of friction in z-direction [µ]	A1	A3	B	B2	C1	C3	G1	H	K2 for thread	K3 for screw	Q1	Q2
WJRM-01-10[71]		< 0.10	16.5	6.5	26.0	2.5	35	22	27	18	M6	M5	–	–
WJRM-01-10-BB[71]	New	< 0.03	16.5	6.5	26.0	2.5	35	22	27	18	M6	M5	–	–
WJRM-01-16		< 0.10	25.0	9.0	34.5	5.0	48	30	33	27	M8	M6	32	28
WJRM-01-16-BB	New	< 0.03	25.0	9.0	34.5	5.0	48	30	33	27	M8	M6	32	28
WJRM-01-20		< 0.10	30.0	9.0	42.5	6.0	52	34	38	36	M8	M6	37	37
WJRM-01-20-BB	New	< 0.03	30.0	9.0	42.5	6.0	52	34	38	36	M8	M6	37	37

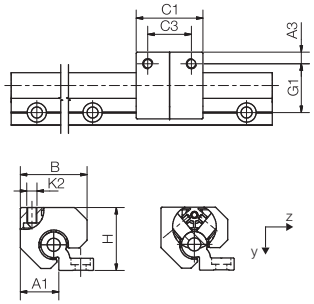
[71] Deviating from WJRM-02-10, available with an expanded opening angle for installation position 02

Can be combined with:

WS-... WS-..-ES-FG-... WS-... WS-...-ES-FG WSX-...

drylin® W hybrid roller bearings | Product range

Hybrid roller bearings with integrated double angled rollers



Order key

Type	Size
WJRM-	21-10

Hybrid roller bearing

Double roller bearing

Size 10

Options:
Blank: Bearing supported plastic roller
BB: Ball bearing supported plastic roller

Suitable mounting plate
▶ Page 1018

Optional with manual clamp, suffix "-HKA"

Technical data and dimensions [mm]

Part No.		Static load capacity Co [N]	Dyn. load capacity Cz+ at total running distance [km] 10 [N]	100 [N]	200 [N]	F · v Max. [N · m/s]	Weight [g]
WJRM-21-10		350	350	125	70	50	115
WJRM-21-10-BB	New	350	350	125	70	100	115
WJRM-21-16		600	600	210	105	80	250
WJRM-21-16-BB	New	600	600	210	105	160	250
WJRM-21-20		840	840	300	150	80	320
WJRM-21-20-BB	New	840	840	300	150	160	320

Part No.		Coefficient of friction in y-direction [µ]	A1	A3	B	C1	C3	G1	H	K2 for screw
WJRM-21-10		< 0.10	16.5	6.5	31	35	22	27	28	M6
WJRM-21-10-BB	New	< 0.03	16.5	6.5	31	35	22	27	28	M6
WJRM-21-16		< 0.10	25.0	9.0	44	48	30	33	41	M8
WJRM-21-16-BB	New	< 0.03	25.0	9.0	44	48	30	33	41	M8
WJRM-21-20		< 0.10	30.0	9.0	52	52	34	38	49	M8
WJRM-21-20-BB	New	< 0.03	30.0	9.0	52	52	34	38	49	M8

WJRM-21-10 and WJRM-21-16: 70° angle between the rollers / WJRM-21-20: 80° angle between the rollers

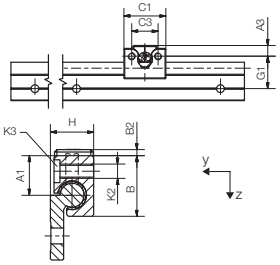
Can be combined with:

WS-... WS-..-ES-FG-... WS-... WS-...-ES-FG WSX-...

drylin® W hybrid roller bearings | Product range

Hybrid roller bearing made from stainless steel

WJRM-01 with single roller



Order key

Type	Size	Material
WJRM-01-10	- ES	

Hybrid roller bearing | Single roller bearing | Size 10 | Stainless steel

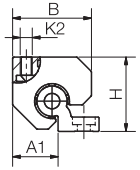
Material
ES: Stainless steel (AISI 316Ti)
ES-FG: Stainless steel precision casting AISI 316
AL: Aluminium

Technical data and dimensions [mm]

Part No.	Static load capacity Co [N]	Dyn. load capacity Cz+ at total running distance [km] 10 [N]	100 [N]	200 [N]	F · v Max. [N · m/s]
WJRM-01-10-ES-FG	250	250	90	50	50
WJRM-01-10-AL	250	250	90	50	50

Part No.	Coefficient of friction in z-direction [µ]	y-direction [µ]	Weight [g]	A1	A3	B	B2	C1	C3	G1	H	K2	K3 for screw
WJRM-01-10-ES-FG	< 0.1	–	57	16.5	6.5	26	2.5	35	22	27	18	M6	M5
WJRM-01-10-AL	< 0.1	–	18	16.5	6.5	26	2.5	35	22	27	18	M6	M5

WJRM-21 with double roller



Order key

Type	Size	Material
WJRM-21-20	- ES	

Hybrid roller bearing | Double roller bearing | Size 20 | Stainless steel

Material
ES: Stainless steel (AISI 316Ti)
ES-FG: Stainless steel precision casting AISI 316

Technical data and dimensions [mm]

Part No.	Static load capacity Co [N]	Dyn. load capacity Cz+ at total running distance [km] 10 [N]	100 [N]	200 [N]	F · v Max. [N · m/s]
WJRM-21-20-ES-FG	840	840	300	150	80

Part No.	Coefficient of friction in z-direction [µ]	y-direction [µ]	Weight [g]	A1	A3	B	C1	C3	G1	H	K2	K3 for screw
WJRM-21-20-ES-FG	–	< 0.1	504	30	9	52	52	34	38	49	M8	M5

drylin® W hybrid roller bearings | Product range

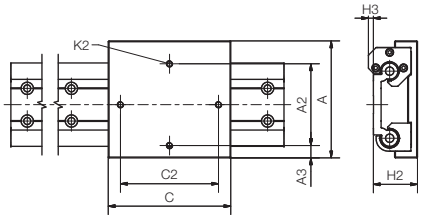
Hybrid carriages for lateral installation

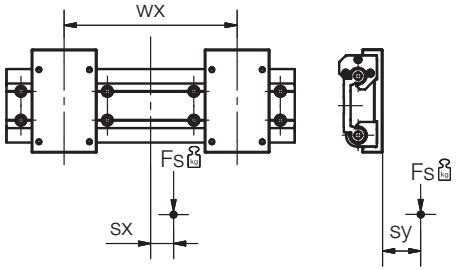
Order key

Type	Size	Option
WWR-21-80	- 01	

drylin® W | Hybrid carriage | Double roller bearing | Installation size | Compact

Options:
01: Carriage, short design
15: Carriage, long design





Technical data and dimensions [mm]

Part No.	A Width	C Length	A2	C2	K2	H2 ±0.17	A3	H3	sx min.	sx max.	sy min.	sy max.
WWR-21-80-01	143	90	100	70	M8	54	15	6	-49	+49	-34	+34
WWR-21-80-15	143	150	100	120	M8	54	15	6	-wx/2	+wx/2	-34	+34

Order example:
WWR-21-80-01 = Assembled single hybrid carriage as a "door opener" with two single roller hybrid bearings and two double roller hybrid bearings

Can be combined with:

WS-20-80

WS-...-ES-FG


WSX-...

drylin® W hybrid roller bearings | Product range

Hybrid carriages with four double roller bearings

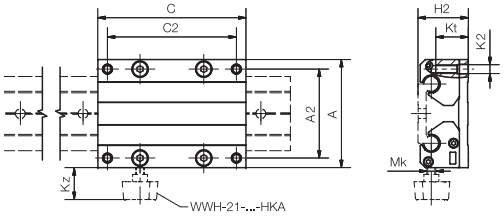
Order key

Type	Dimensions

WWH-21-10-40-10

drylin® W	Hybrid carriage	Double roller bearing	Installation size	Carriage length [mm]

Optional with manual clamp, suffix "-HKA"



Technical data and dimensions [mm]

Part No.	Weight	A	C	A2	C2	K2	Kt	H2	Static load capacity
		Width	Length						Coy
	[kg]								[N]
WWH-21-10-40-10	0.59	73	100	60	87	M6	21	34	1,400
WWH-21-10-40-15	0.64	73	150	60	137	M6	21	34	1,400
WWH-21-10-40-20	0.70	73	200	60	187	M6	21	34	1,400
WWH-21-10-80-10	0.64	107	100	94	87	M6	21	34	1,400
WWH-21-10-80-15	0.72	107	150	94	137	M6	21	34	1,400
WWH-21-10-80-20	0.80	107	200	94	187	M6	21	34	1,400
WWH-21-10-120-10	0.71	153	100	140	87	M6	21	34	1,400
WWH-21-10-120-15	0.84	153	150	140	137	M6	21	34	1,400
WWH-21-10-120-20	0.96	153	200	140	187	M6	21	34	1,400
WWH-21-16-60-10	1.31	104	100	86	82	M8	29	49	2,400
WWH-21-16-60-15	1.44	104	150	86	132	M8	29	49	2,400
WWH-21-16-60-20	1.57	104	200	86	182	M8	29	49	2,400
WWH-21-20-80-15	1.72	134	150	116	132	M8	24	57	3,360
WWH-21-20-80-20	1.82	134	200	116	182	M8	24	57	3,360
WWH-21-20-80-25	2.02	134	250	116	232	M8	24	57	3,360

Can be combined with:

WS-20-80 WS-...-ES-FG WSX-...

drylin® W hybrid roller bearings | Product range

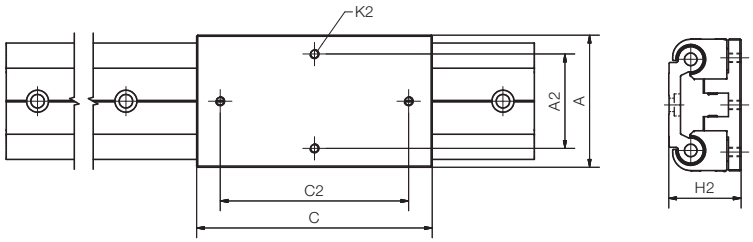
Hybrid carriages with four single roller bearings for horizontal installation

Order key

Type	Dimensions

WWH-10-40-10

drylin® W	Hybrid carriage	Installation size	Carriage length [mm]



Technical data and dimensions [mm]

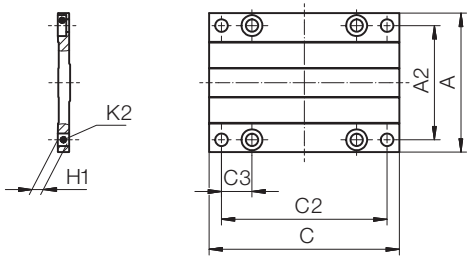
Part No.	Weight	A	A2	C	C2	K2	H2	Stat. load capacity				
								Coy	Coz	Mox	Moy	Moz
	[kg]						±0.17	[N]	[N]	[Nm]	[Nm]	[Nm]
WWH-10-40-10	0.35	58	40	100	80	M5	34	1,000	1,000	20	16	32
WWH-16-60-15	0.96	84	60	150	120	M6	46	1,600	1,600	45	38	77
WWH-20-80-25	1.78	114	90	250	220	M6	55	2,200	2,200	90	435	435

Can be combined with:

WS-... WS-...-ES-FG WSX-...

drylin® W hybrid roller bearings | Product range New

Carriage plates for drylin® W hybrid roller bearings



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

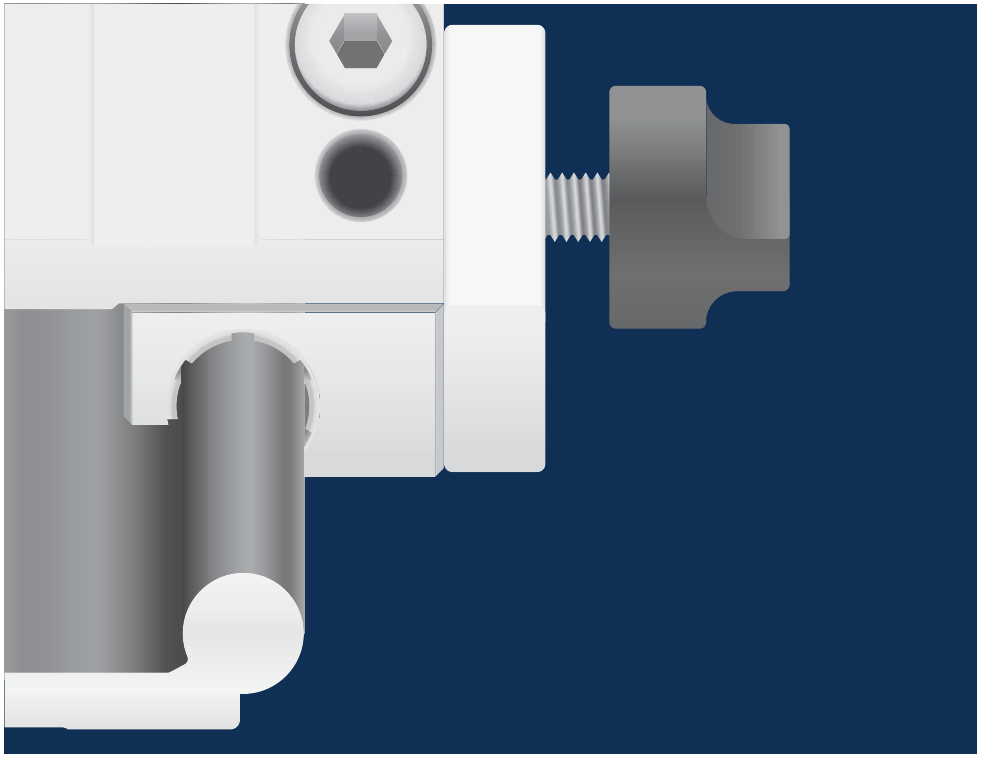
Modular system:
Can be combined with the complete drylin® linear bearing product range. 4 screws included in delivery.

Technical data and dimensions [mm]

Part No.		C	A	H1	A2	K2	Mounting screws included
WWYR-10-30-08-AL	New	80	63	6.5	50	M6	M6
WWYR-10-30-10-AL	New	100	63	6.5	50	M6	M6
WWYR-10-30-15-AL	New	150	63	6.5	50	M6	M6
WWYR-10-40-10-AL	New	100	73	6.5	60	M6	M6
WWYR-10-40-15-AL	New	150	73	6.5	60	M6	M6
WWYR-10-40-20-AL	New	200	73	6.5	60	M6	M6
WWYR-10-80-10-AL	New	100	107	6.5	94	M6	M6
WWYR-10-80-15-AL	New	150	107	6.5	94	M6	M6
WWYR-10-80-20-AL	New	200	107	6.5	94	M6	M6
WWYR-10-120-10-AL	New	100	153	6.5	140	M6	M6
WWYR-10-120-15-AL	New	150	153	6.5	140	M6	M6
WWYR-10-120-20-AL	New	200	153	6.5	140	M6	M6
WWYR-16-60-10-AL	New	100	104	8.5	86	M8	M8
WWYR-16-60-15-AL	New	150	104	8.5	86	M8	M8
WWYR-16-60-20-AL	New	200	104	8.5	86	M8	M8
WWYR-20-80-15-AL	New	150	134	8.5	116	M8	M8
WWYR-20-80-20-AL	New	200	134	8.5	116	M8	M8
WWYR-20-80-25-AL	New	250	134	8.5	116	M8	M8

Suitable for rails ▶ Page 992, 993, 1010
Suitable for bearings ▶ Page 1011, 1012, 1013, 1014

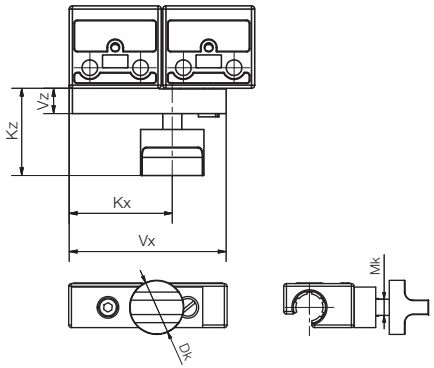
Available from stock



drylin® linear technology – Accessories

drylin® W profile guides | Product range

Accessories: Manual clamp for simple positioning



Technical data and dimensions [mm]

Part No.	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding force[67]	Min. tightening torque
WHKA-10[66]	M6	50	33	8	28	20	30N	0.8Nm
WHKA-16[66]	M8	72	41	10	31	28	60N	1.5Nm
WHKA-20[66]	M8	90	62	10	31	28	70N	1.5Nm
WHKA-25[66]	M8	96	65	12	31	28	70N	1.5Nm

[67] Condition: dry rail surface

[66] The manual clamp is also available assembled as a complete carriage (suffix "-HKA", order example: WW-10-40-10-HKA). Dimensions complete carriage WWQ ▶ Page 995

Accessories: Aluminium manual clamp

Technical data and dimensions [mm]

Part No.	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding force[67]	Min. tightening torque
WHKA-10-AL[68]	M6	50	33	8	28	20	30N	0.8Nm
WHKA-16-AL[68]	M8	72	41	10	31	28	60N	1.5Nm
WHKA-20-AL[68]	M8	90	62	10	31	28	70N	1.5Nm
WHKA-25-AL[68]	M8	96	65	12	31	28	70N	1.5Nm

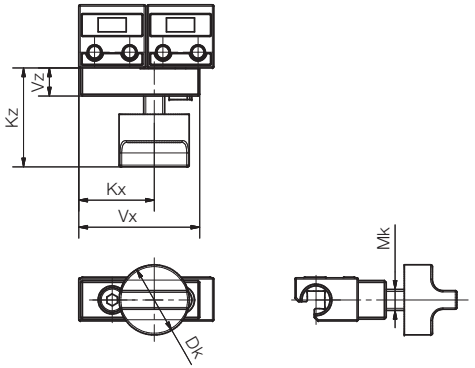
[67] Condition: dry rail surface

[68] The manual clamp is also available assembled as a complete carriage (suffix "-AL-HKA", order example: WW-10-40-10-HKA). Dimensions complete carriage WWQ ▶ Page 995

drylin® W profile guides

drylin® W profile guides | Product range

Accessories: Manual clamp for square rails



Technical data and dimensions [mm]

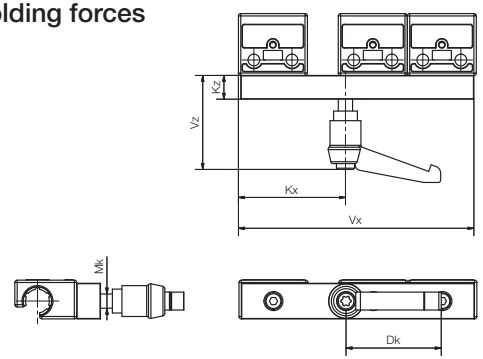
Part No.	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding force[67]	Min. tightening torque
WHKAQ-06[133] [137]	M6	34.5	21.5	8	28	20	30N	0.8Nm
WHKAQ-10[137]	M6	50	33	8	28	20	30N	0.8Nm
WHKAQ-16[137]	M8	72	41	10	31	28	60N	1.5Nm
WHKAQ-20[137]	M8	90	62	10	31	28	70N	1.5Nm

[67] Condition: dry rail surface

[133] Aluminium version available, suffix "-AL"

[137] The manual clamp is also available assembled as a complete carriage (suffix "-HKAQ", order example: WW-06-30-06-HKAQ). Dimensions complete carriage WWQ ▶ Page 990

Accessories: Manual clamp for higher holding forces



Technical data and dimensions [mm]

Part No.	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding force[67]	Min. tightening torque
WHKD-1010[69]	M6	100	45	40	10	40	70N	2.5Nm
WHKD-1015[69]	M6	150	95	40	10	40	70N	2.5Nm
WHKD-1615[69]	M8	150	81	40	12	40	90N	3.5Nm
WHKD-1620[69]	M8	200	131	40	12	40	90N	3.5Nm
WHKD-2015[69]	M8	150	63	40	12	40	90N	3.5Nm
WHKD-2020[69]	M8	200	113	40	12	40	90N	3.5Nm

[67] Condition: dry rail surface

[69] The manual clamp is also available assembled as a complete carriage (suffix "-HKD", order example: WW-10-40-10-HKD). Dimensions complete carriage WWQ ▶ Page 995

drylin® W profile guides | Product range

Accessories: Manual clamp for drylin® W hybrid roller bearings

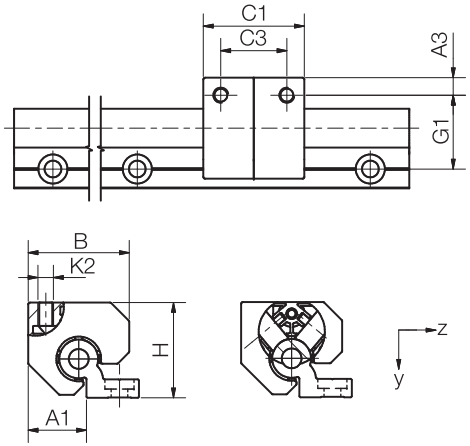
Order key

Type	Size	Material

WJRM-21-10 - HKA

Hybrid roller bearing | Double roller bearing | Size 10 | Stainless steel

Material
ES: Stainless steel (AISI 316Ti)
ES-FG: Stainless steel precision casting AISI 316
AL: Aluminium



Technical data and dimensions [mm]

Part No.	Weight	A1	A3	B	C1	C3	G1	H	K2 for screw	Kz
	[g]									Max.
WJRM-21-10-HKA	115	16.5	6.5	31	35	22	27	28	M6	25
WJRM-21-16-HKA	250	25	9	44	48	30	32	41	M8	25
WJRM-21-20-HKA	320	30	9	52	52	34	38	49	M8	25

drylin® W profile guides | Product range

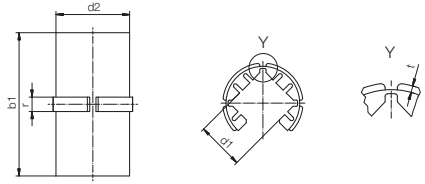
Accessories: Liners and end caps for high profile rails

drylin® W plastic liners – long, open design

Size	Material	Pillow blocks	Liners Part No.	in the drylin® R-Chapter
10/16/20/25 (standard)	iglidur® J200	WJ200UM-01-Ø	J200UMO-01-Ø[70]	▶ Page 1086
10/16/20/25	iglidur® J	WJUM-01-Ø	JUMO-01-Ø	▶ Page 1080
10/16/20/25 (High temperature)	iglidur® X	WXUM-01-Ø	XUMO-01-Ø	▶ Page 1091
10/16/20/25	iglidur® E7	WE7UM-01-Ø	E7UMO-01-Ø	▶ Page 1088

[70] Available also as floating bearing, Part No. J200UMO-01-Ø-LL

drylin® W liners – long design, square

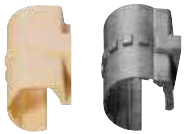


Dimensions [mm]

Part No.	d1	d1 tolerance	d2	b1	r	t
J200QM-01-06	5.0	+0.020 +0.080	8	19	3.0	0.5
J200QM-01-10	7.5	+0.020 +0.080	12	28	3.0	0.8
J200QM-01-16	11.5	+0.020 +0.080	18	35	3.0	0.8
J200QM-01-20	15.0	+0.020 +0.080	23	44	3.5	0.8

Available also as floating bearing J200QM-01-Ø-LLZ (z-direction), J200QM-01-Ø-LLY (y-direction)

drylin® W plastic liners – adjustable



Size	Material	Pillow blocks	Liners Part No.
10 (adjustable)	iglidur® J	WJUME-01-10	JUME-01-10
16/20 (adjustable)	iglidur® J200	WJ200UME-01-Ø	J200UME-01-Ø

drylin® W profile guides | Product range

Accessories: Replacement liners

drylin® W plastic liners

Size	Material	Pillow blocks	Liners Part No.	
10	iglidur® J200	**WJ200UMA-01-10-AL**	**J200UMA-01-10**	
16	iglidur® J200	**WJ200UMA-01-16-AL**	**J200UMA-01-16**	New
20	iglidur® J200	**WJ200UMA-01-20-AL**	**J200UMA-01-20**	New

Replacement kit for WJ200UMA-01-10-AL pillow block

Consisting of

- 4 liners
- 4 housing end caps
- Assembly tool

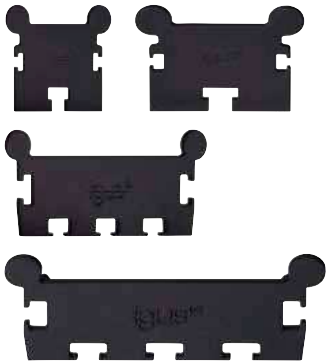
Part No.:
WEKA-01-10-J200
WEKA-01-16-J200 New
WEKA-01-20-J200 New

drylin® W profile guides

drylin® W profile guides | Product range

Accessories

End caps for drylin® high profile rails WSX



- For drylin® W high profile rails WSX
  ▶ Page 993
- 4 installation sizes
- Protection of the hollow chambers against the entry of foreign particle
- Easy to fit, easy sideways
- End caps for cutting edges

Part No.:
WSX-063001-EC
WSX-104001-EC
WSX-108001-EC
WSX-166001-EC

Slot nuts for mounting

- Variable positionable
- Ideal for drylin® limit and reference switches
- Suitable for T-slots of the drylin® WSX high-profile rails
  ▶ Page 987, 993
- Secure retention
- Can be retrofitted

Part No.	Suitable for rail profile
NOR-20602	WSX-06-30
NOR-20602	WSX-10-40
NOR-20602	WSX-10-80
NOR-20602	AWMQ-12/20
NOR-20602	WSX-16-60
NOR-20605	WSX-16-60

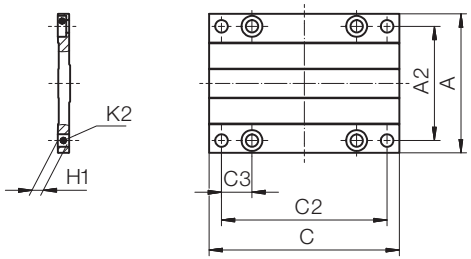
Clamps for WSX high profile rails

- Secure mounting
- Variable positionable
- For drylin® SAW linear modules and ZLW toothed belt axes
- For drylin® WSX high-profile rails
  ▶ Page 987, 993

Part No.	Suitable for toothed belt axis
ZTZ-063006	ZLW-0630
75.40 ZLW	ZLW-1040
75.40 ZLW	ZLW-1080
75.50 ZLW	ZLW-1660

drylin® W profile guides | Product range New

Extension of the drylin® W modular system



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