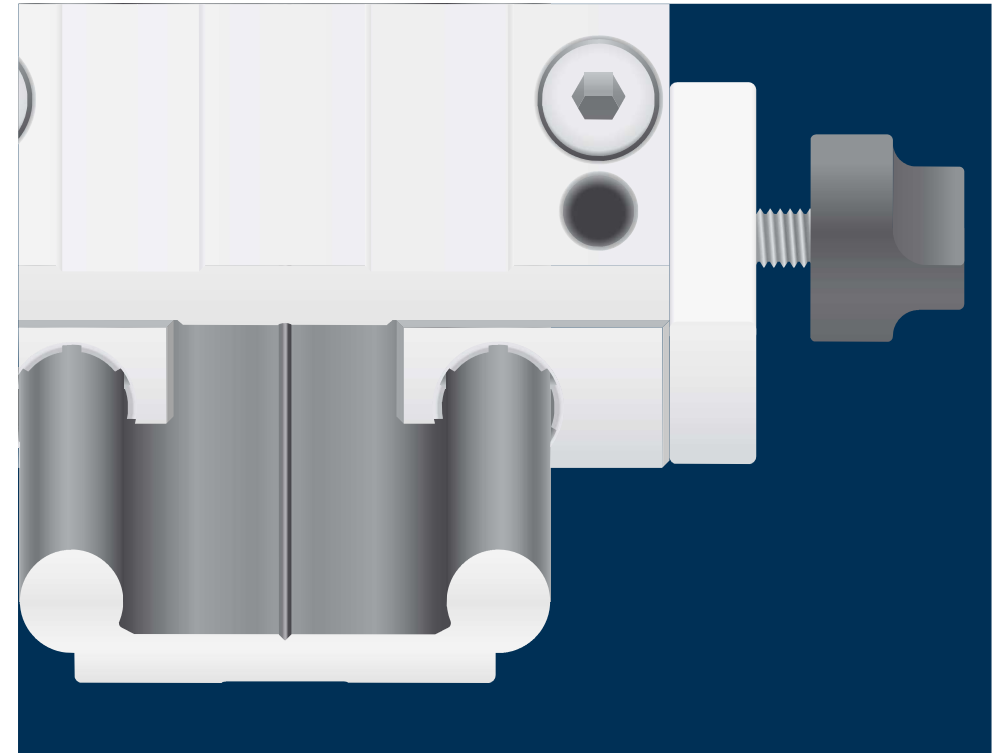
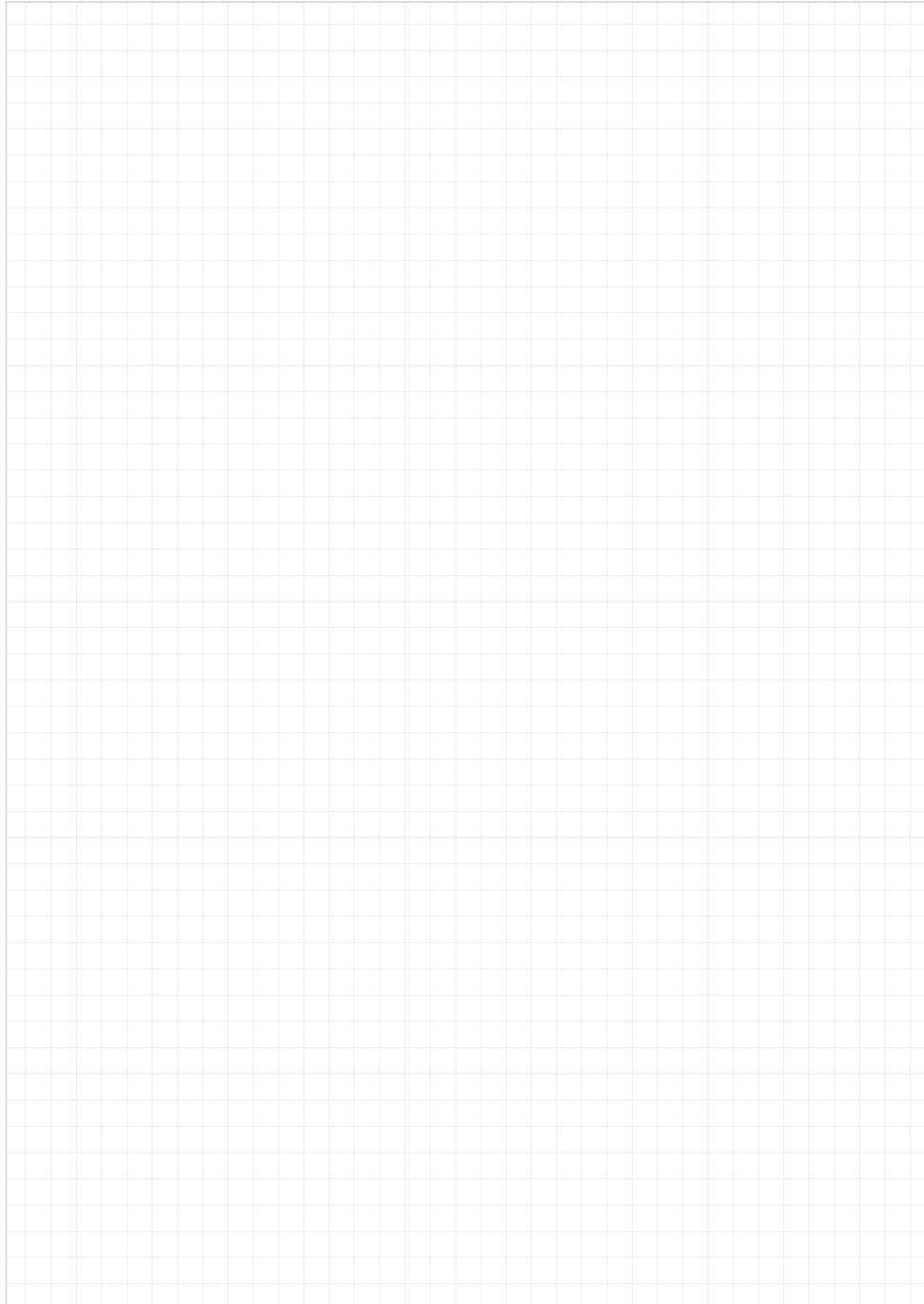




drylin[®] linear technology – drylin[®] W profile guides

Modular linear guides

Replaceable lubrication-free drylin[®] liners

Robust linear housings

Ready-to-install linear carriages

Single and double rails



Superior operating properties by combining iglidur® bearing elements and anodised rails with round shaft profiles

Corrosion-resistant with hard-anodised running surface

Quiet operation

Clean as no lubrication required

Lightweight due to the use of plastics and aluminium

Smooth operation with sliding elements made from lubrication-free iglidur® high-performance polymers

Maintenance-free due to integrated lubricants

Profiles with various geometric designs, installation sizes and clearances

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.eu/drylin-expert



Single components: single and double rails

- Material: aluminium, hard-anodised
- Design freedom
- 316 stainless steel rails
- **From page 920**



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 921**



Assembled systems: Complete carriages

- Pre-assembled
- Variable lengths and widths
- Mono-slide carriage made from aluminium
- **From page 934**



Accessories

- Manual clamp for single bearing housing and complete carriages
- End caps for high profile rails
- **From page 962**



Hybrid guides

- Linear housing with integrated single or double roller
- Low drive force
- Available as single housing or complete carriage
- **From page 949**

Based on drylin® W



Measuring systems
► **From page 1135**



Linear modules
SLW/SAW/GRW/ZLW
► **From page 1307**



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.



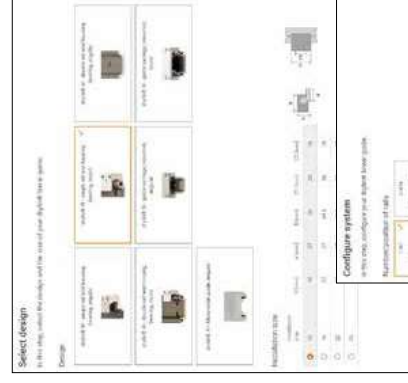
The dosing mechanism on this casting machine is subjected to high temperatures and dirt. To make it as durable as possible despite this, it is mounted with a drylin® W profile guide.



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.eu/drylin-expert



Download the online tool app now



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.eu/drylin-CAD



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

- Assembly instructions
- Assembly videos
- System design
- Catalogues



► www.igus.eu/downloads

Profiles	Installation size					Liners material			
	06	10	16	20	25	J	J200	X	A180
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



Floating bearings aid assembly – when using single rails

Assembly is easy with the drylin® WQ square profile. Floating bearings for all directions ($\pm 1\text{mm}$) 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 $\pm 7^\circ$ is possible here. This effectively eliminates the misalignment known to occur when assembling to sheet metal fabrications.

Floating bearings for all directions (up to $\pm 1\text{mm}$) compensate misalignments and parallelism errors.

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

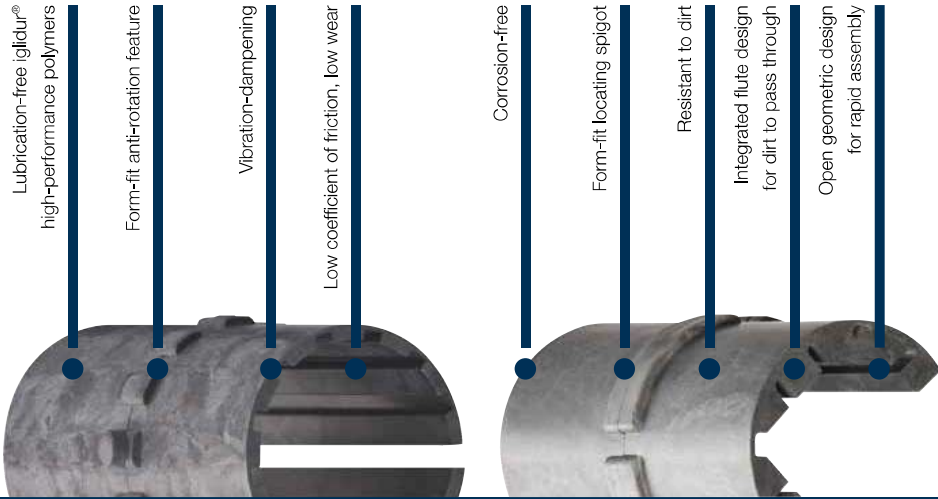


rotating – square

drylin® 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



Lubrication-free iglidur® high-performance polymers

Form-fit anti-rotation feature

Vibration-dampening

Low coefficient of friction, low wear

Corrosion-free

Form-fit locating spigot

Resistant to dirt

Integrated flute design for dirt to pass through

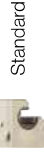
Open geometric design for rapid assembly

	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 +80°C	from –50°C to +80°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 ¹⁰ Qcm	> 10 ¹⁰ Qcm	< 10 ⁹ Qcm	> 10 ⁹ Qcm	> 10 ⁹ Qcm	> 10 ⁹ Qcm
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-...

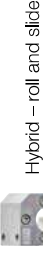
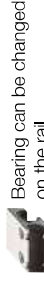
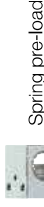
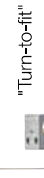
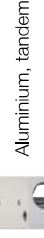
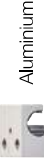
Available pillow blocks and carriages



Pillow block, square



Pillow block, round



Guide carriage, fitted

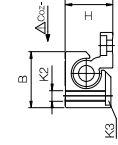


Complete carriages



● Standard ● Optional

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



Technical data and dimensions [mm]

Part No.	Floating bearing clearance	Weight [g]	B	C1	C3	A3	K2	K3	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-...



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



Order key – single rail

Type	Length
------	--------

WS-10-4000

Guide rails	Shafts Ø	Rail length [mm]
-------------	----------	------------------



Order key – pillow block

Type	Size	Options
------	------	---------

WJ200UM-01-10-LL

Floating bearing	Size	Standard	Pillow block, round	Liner material iglidur® J200	drylin® W
------------------	------	----------	---------------------	---------------------------------	-----------

Options:

LL: Floating bearing

AL: Pillow block

made from

aluminium

ES: Stainless steel

ES-FG: Stainless

steel pre-

cision casting

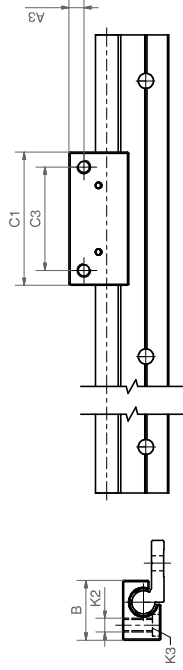
Pillow blocks, tandem, round, anodised aluminium



Order key

Type	Size	Material
drylin® W		Aluminium
iglidur® J200		
Pillow block, round		
Tandem		
Standard		
Size		

WJ200UMT-01-10-AL



Technical data and dimensions [mm]

Part No.	Weight [g]	B	C1	C3	A3	K2	K3	Static load capacity for countersunk head screw		
								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-...-ES-FG



WSX-...

Suitable liner material:



iglidur® J200



iglidur® X



iglidur® E7



iglidur® A180

drylin® W profile guides | Product range

Pillow blocks, round, adjustable bearing clearance



Order key



Picture shows
WJ2000UME-01-10

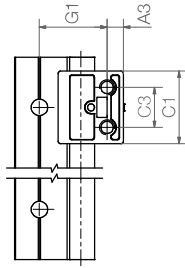
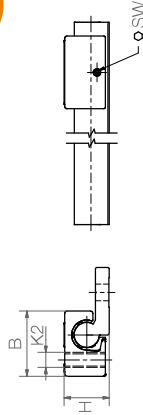


Type	Size
drylin® W	
Liner material iglidur® J200	
Pillow block, round	
Adjustable	
Standard	
Size	

WJ2000UME-01-16



Allen key supplied



Technical data and dimensions [mm]

Part No.	Weight		B	C1	C3	A3	K2	H	SW	G1	Static load capacity			
	[g]										Coy	Coz+	Coz-	[N]
							±0.25							
WJ2000UME-01-10	43	26	29	16	6.5	M6	18	1.5	27	560	560	250		
WX2000UME-01-10	43	26	29	16	6.5	M6	18	1.5	27	560	560	250		
WJ2000UME-01-10-AL	19	26	29	16	6.5	M6	18	1.5	27	560	560	250		
WJ2000UME-01-10-ES	56	26	29	16	6.5	M6	18	1.5	27	560	560	250		
WJ2000UME-01-16	110	34.5	36	18	9	M8	27	2.5	33	980	980	400		
WJ2000UME-01-16-AL	45	34.5	36	18	9	M8	27	2.5	33	980	980	400		
WJ2000UME-01-16-ES	132	34.5	36	18	9	M8	27	2.5	33	980	980	400		
WJ2000UME-01-20	222	42.5	45	27	9	M8	36	2.5	38	1,500	1,500	500		
WJ2000UME-01-20-AL	95	42.5	45	27	9	M8	36	2.5	38	1,500	1,500	500		
WJ2000UME-01-20-ES	275	42.5	45	27	9	M8	36	2.5	38	1,500	1,500	500		
WJ2000UME-01-25*	431	52.5	58	36	11	M10	45	2.5	46.5	2,250	2,250	950		
WJ2000UME-01-25-AL*	194	52.5	58	36	11	M10	45	2.5	46.5	2,250	2,250	950		
WJ2000UME-01-25-ES*	539	52.5	58	36	11	M10	45	2.5	46.5	2,250	2,250	950		

Can be combined with:



Suitable liner material:



drylin® W profile guides | Product range

Pillow blocks, round, with spring pre-load



Order key

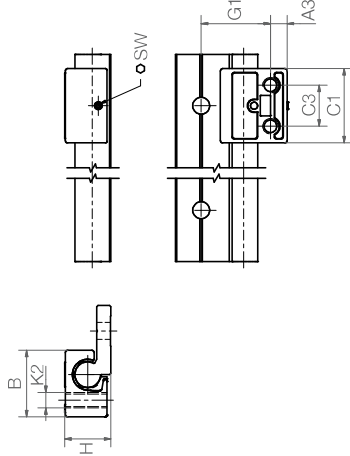


WJ2000UM-01-16-□-P40



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

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



Technical data and dimensions [mm]

Part No.	Pre-load	Weight				B	C1	C3	A3	K2	H	SW	G1
		-ES		-AL									
	[N]	[g]	[g]	[g]							±0.25		
WJ2000UM-01-10-□-P40	4	43	56	19	26	29	16	6.5	M6	18	1.5	27	
WJ2000UM-01-10-□-P90	9	43	56	19	26	29	16	6.5	M6	18	1.5	27	
WJ2000UM-01-10-□-P140	14	43	56	19	26	29	16	6.5	M6	18	1.5	27	
WJ2000UM-01-16-□-P40	4	110	132	46	34.5	36	18	9	M8	27	2.5	33	
WJ2000UM-01-16-□-P90	9	110	132	46	34.5	36	18	9	M8	27	2.5	33	
WJ2000UM-01-16-□-P140	14	110	132	46	34.5	36	18	9	M8	27	2.5	33	
WJ2000UM-01-16-□-P230	23	110	132	46	34.5	36	18	9	M8	27	2.5	33	
WJ2000UM-01-20-□-P40	4	222	275	95	42.5	45	27	9	M8	36	2.5	38	
WJ2000UM-01-20-□-P90	9	222	275	95	42.5	45	27	9	M8	36	2.5	38	
WJ2000UM-01-20-□-P140	14	222	275	95	42.5	45	27	9	M8	36	2.5	38	
WJ2000UM-01-20-□-P230	23	222	275	95	42.5	45	27	9	M8	36	2.5	38	

Can be combined with:



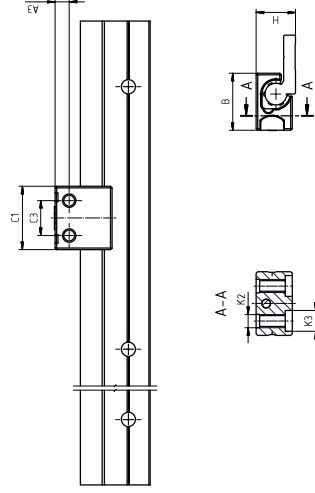
Suitable liner material:





Order key

Type	drylin® W
	Liner material Igitdur® J200
	Pillow block, round
	Replaceable
	Standard
Size	Aluminium
WJ200UMA-01-10-AL	



Technical data and dimensions [mm]

Part No.	Weight	B	C1	C3	A3	K2	K3 ⁽⁵⁰⁾	H	Static load capacity			
									Coy		Coz-	
	[g]							±0.25	[N]	[N]	[N]	[N]
WJ200UMA-01-10-AL	18	26	29	16	6.5	M6	M5	18	1,000	1,000	1,000	200

¹⁵⁰⁾ Counterbore for socket cap bolt

Can be combined with:



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



WSX-...



Assembling aid Liners

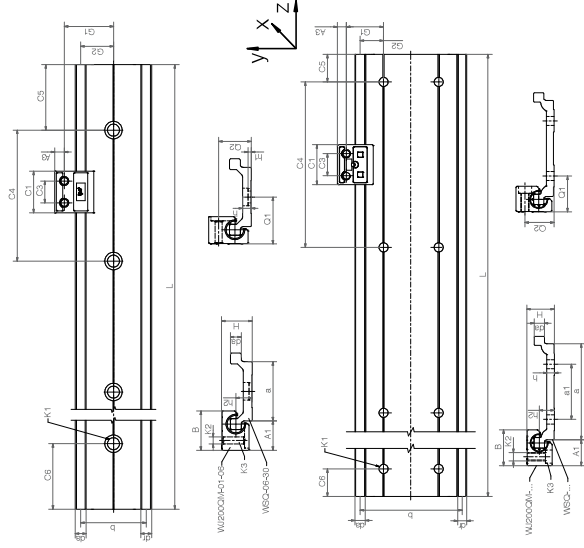
Suitable liner material/accessories

Double rails, square, hard-anodised aluminium



 Hard-anodised surfaces
► Page 902

 Curved rail profiles
► Page 906



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	7,5	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	Min.	Max.	C6	K1 for screw	Geometrical moment of inertia	ly	Iz	Wby	Wbz	Moment of resistance
						DIN 912	[mm ⁴]	[mm ⁴]	[mm ⁴]	[mm ³]	[mm ³]	[mm ³]
WSQ-06-30	60	20	49,5	20	49,5	M5 ⁵⁹⁾	19,000	1,250	1,100	1,100	200	
WSQ-06-60	60	20	49,5	20	49,5	M5 ⁵⁹⁾	117,900	1,600	3,500	3,500	290	
WSQ-10-40	120	20	79,5	20	79,5	M6 ⁵⁹⁾	71,600	5,580	3,000	3,000	610	
WSQ-10-80	120	20	79,5	20	79,5	M6 ⁵⁹⁾	335,000	7,070	8,300	8,300	700	
WSQ-10-120	120	20	79,5	20	79,5	M6 ⁵⁹⁾	1,175,000	8,000	18,400	18,400	760	
WSQ-16-60	120	20	79,5	20	79,5	M8	324,700	20,500	9,400	9,400	1,700	
WSQ-20-80	120	20	79,5	20	79,5	M8	1,145,000	75,300	23,600	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:



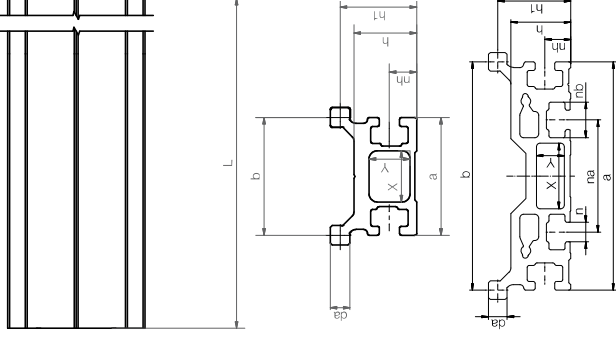
930 Online tools and more information ► www.igus.eu/drylinW

High profile rails, square, hard-anodised aluminium



 Suitable end caps
► Page 967

 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	ly	Iz	Wby	Wbz	Moment of resistance
	[kg/m]													[mm ⁴]	[mm ⁴]	[mm ⁴]	[mm ³]	[mm ³]	[mm ³]
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

 Order key

Type	Length
Profile rail	
Square	
Shaft Ø	
Rail width [mm]	
Rail length [mm]	

WS Q-06-30-3000

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

WS X-06-30-4000

Can be combined with:



3D CAD files, prices and delivery time online ► www.igus.eu/drylinW

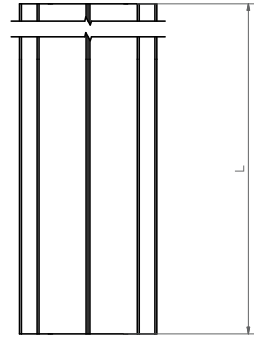
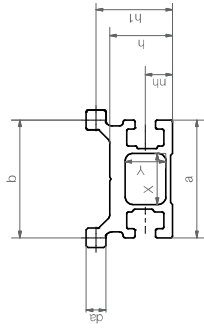


Order key

Type	Dimensions [mm]/Type
------	----------------------

W S P C-06-30-1000

drylin® W	Rail	Plastic	Carbon fibre	Shaft Ø	Rail width	Rail length
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Technical data – guide rail

Part No.	F max. radial		Weight	ly		lz
	stat.	dyn.		[mm²]	[mm²]	
WSPC-06-30	300	60	410	30,391	11,674	

Dimensions [mm] – guide profile

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

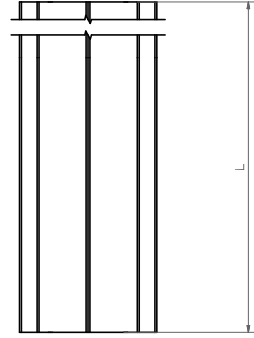
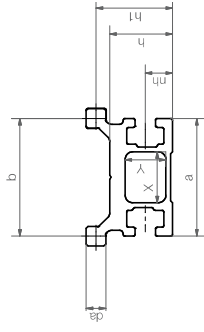


Order key

Type	Dimensions [mm]/Type
------	----------------------

W S P G-06-30-1000

drylin® W	Rail	Plastic	Fibreglass	Shaft Ø	Rail width	Rail length
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Technical data – guide rail

Part No.	F max. radial		Weight	ly		lz
	stat.	dyn.		[mm²]	[mm²]	
WSPG-063001	200	50	505	30,391	11,674	

Dimensions [mm] – guide profile

Part No.	a	b	da	h	h1	nh	X	Y	L
WSPG-063001	30	30	5 -0.1	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

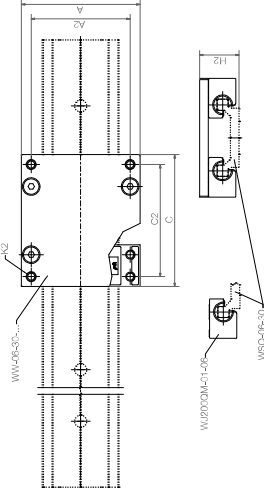


Order key

Type	Size
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WWQ-06-30-06

Guide carriage	Square	Shafts-Ø [mm]	Profile width	Carriage length
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Technical data and dimensions [mm]

Part No. ⁽⁵⁴⁾	Weight	A	C	Length	A2	C2	K2	H2 ⁽⁵⁷⁾	Static load capacity						
									±0.25	Coy	Coz	Max	Moy	Moz	
	[kg]								[N]	[N]	[Nm]	[Nm]	[Nm]	[Nm]	[Nm]
WWQ-06-30-06	0.10	54	60	45	51	M4	18	1,680	840	25	34	34	51	34	34
WWQ-06-30-08	0.11	54	80	45	71	M4	18	1,680	840	25	51	51	68	51	51
WWQ-06-30-10	0.12	54	100	45	91	M4	18	1,680	840	25	68	68	84	68	68
WWQ-06-60-06	0.13	85	60	76	51	M4	18	1,680	840	50	34	34	51	34	34
WWQ-06-60-08	0.15	85	80	76	71	M4	18	1,680	840	50	51	51	68	51	51
WWQ-06-60-10	0.17	85	100	76	91	M4	18	1,680	840	50	68	68	84	68	68
WWQ-10-40-10	0.29	73	100	60	87	M6	26	4,800	2,400	96	170	170	216	170	170
WWQ-10-40-15	0.34	73	150	60	137	M6	26	4,800	2,400	96	290	290	360	290	290
WWQ-10-40-20	0.40	73	200	60	187	M6	26	4,800	2,400	96	410	410	512	410	410
WWQ-10-80-10	0.34	107	100	94	87	M6	26	4,800	2,400	178	170	170	216	170	170
WWQ-10-80-15	0.42	107	150	94	137	M6	26	4,800	2,400	178	290	290	360	290	290
WWQ-10-80-20	0.50	107	200	94	187	M6	26	4,800	2,400	178	410	410	512	410	410
WWQ-10-120-10	0.41	153	100	140	87	M6	26	4,800	2,400	288	170	170	216	170	170
WWQ-10-120-15	0.54	153	150	140	137	M6	26	4,800	2,400	288	290	290	360	290	290
WWQ-10-120-20	0.66	153	200	140	187	M6	26	4,800	2,400	288	410	410	512	410	410
WWQ-16-60-10	0.71	104	100	86	82	M8	35	8,400	4,200	240	270	270	336	270	270
WWQ-16-60-15	0.84	104	150	86	132	M8	35	8,400	4,200	240	480	480	595	480	480
WWQ-16-60-20	0.97	104	200	86	182	M8	35	8,400	4,200	240	690	690	864	690	690
WWQ-20-80-15	1.20	134	150	116	132	M8	44	12,800	6,400	525	670	670	835	670	670
WWQ-20-80-20	1.30	134	200	116	182	M8	44	12,800	6,400	525	990	990	1,238	990	990
WWQ-20-80-25	1.50	134	250	116	232	M8	44	12,800	6,400	525	1,250	1,250	1,562	1,250	1,250

⁵⁷⁾ Height dimension minus the bearing clearance tolerance ⁵⁴⁾ Optionally available with manual clamp,

suffix "-HKA"

Can be combined with:



Suitable liner material:

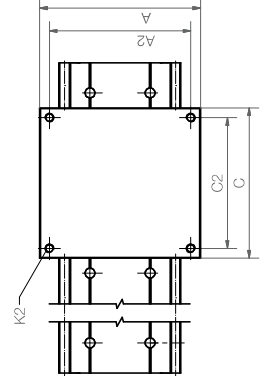


Order key

Type	Size
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WWC-10-40-10

Mono-Slide guide carriage	Shafts-Ø [mm]	Profile width	Carriage length
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Technical data and dimensions [mm]

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

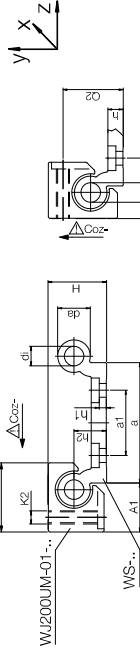
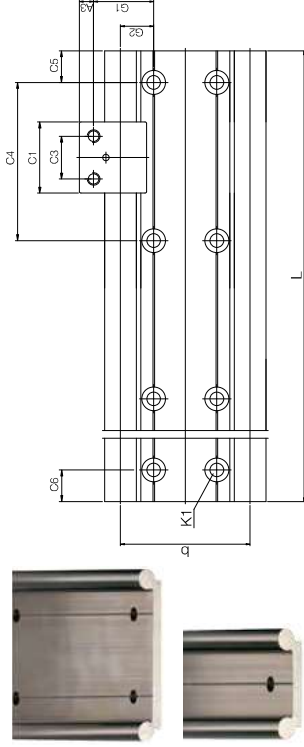
⁵⁷⁾ Height dimension minus the bearing clearance tolerance

Can be combined with:



Suitable liner material:





Hard-anodised surfaces

► Page 902

Curved rail profiles

► Page 906

This orientation not possible for

WS-10-40/

WS-10-80/WS-10-120

Technical data and dimensions [mm]

Part No.	Weight [kg/m]	H ⁵⁷⁾ ±0,25	da	di	L	a	A1	b	h	h1	h2	G1	G2	a1 ⁵⁸⁾	Q1	Q2
WS-10-30	0,85	18	10-0,1	-	4,000	30-0,5	16,5	30	5,5	5,5 ⁵⁹⁾	9	25	15	-	-	-
WS-10-40	1,00	18	10-0,1	-	4,000	40-0,5	16,5	40	5,5	5,5 ⁵⁹⁾	9	30	20	-	-	-
WS-10-80	1,50	18	10-0,1	-	4,000	74-0,7	16,5	74	5,5	5,5 ⁵⁹⁾	9	27	17	40	-	-
WS-10-120	2,02	18	10-0,1	-	4,000	120-	16,5	120	5,5	5,5 ⁵⁹⁾	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

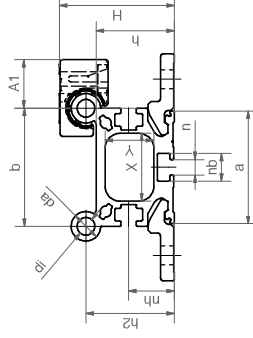
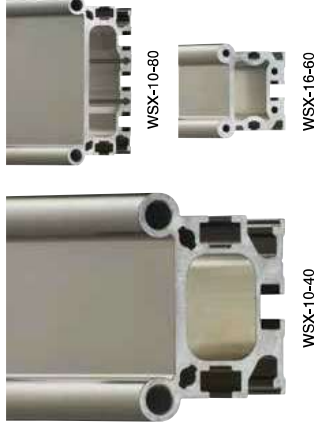
⁵⁷⁾ Height dimension minus the bearing clearance tolerance

⁵⁹⁾ 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	Min.	Max.	C6	Min.	Max.	K1 for screw	Geometrical moment of inertia I _y [mm ⁴] I _z [mm ⁴]	Moment of resistance W _{by} [mm ³] W _{bz} [mm ³]
WS-10-30	120	20	79,5	20	79,5	M5 ⁵⁹⁾	47,500	4,400	2,370	540
WS-10-40	120	20	79,5	20	79,5	M6 ⁵⁹⁾	91,000	5,100	3,600	590
WS-10-80	120	20	79,5	20	79,5	M6 ⁵⁹⁾	388,000	6,100	9,200	650
WS-10-120	120	20	79,5	20	79,5	M6 ⁵⁹⁾	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.

⁵⁹⁾ Plain holes



Technical data and dimensions [mm]

Part No.	Weight [kg/m]	H ⁵⁷⁾ ±0,25	da	di	L	a	A1	b	h	h2	s	K1	C1	C3	G1
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 I _y [mm ⁴] I _z [mm ⁴]	W _{by} [mm ³] W _{bz} [mm ³]	Moment of resistance
15,5	5,2	9,5	23	16	97,560	54,910	3,902
15,5	5,2	9,5	55	16	483,653	83,613	11,515
27,6	10	15,4	40	27,0	540,876	773,489	14,618

⁵⁷⁾ Height dimension minus the bearing clearance tolerance



Order key

Type	Length
------	--------

WS-10-40-3000

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

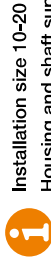
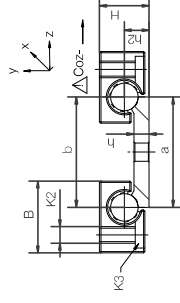
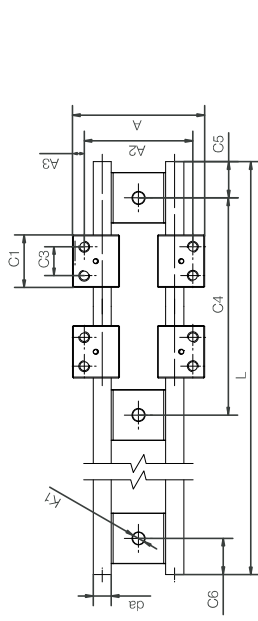


Order key

Type	Length
------	--------

WS X-10-40-4000

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



Installation size 10-20
Housing and shaft support material
Shaft material
Installation size 25
Shaft, shaft support and housing material

AISI 316

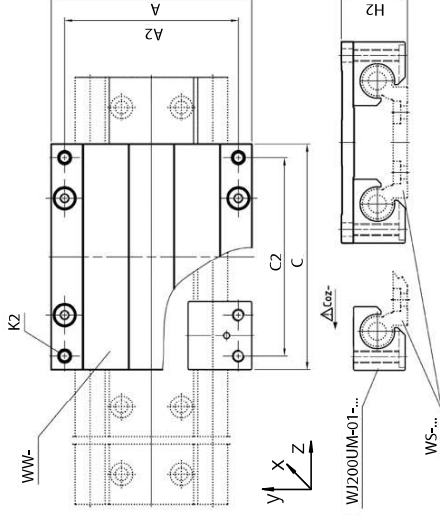
AISI 316Ti

AISI 316Ti

Technical data and dimensions [mm]

Part No.	Weight [kg/m]	H ⁵⁷⁾ ±0,25	da h9	L Max.	a -0,3	b	h	h2	A	A2
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



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. ⁵⁴⁾	Weight [kg]	A	C	A2	C2	K2	H2 ⁵⁷⁾ ±0,25	Coz [N]	Coy [N]	Mox [Nm]	Moy [Nm]	Moz [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

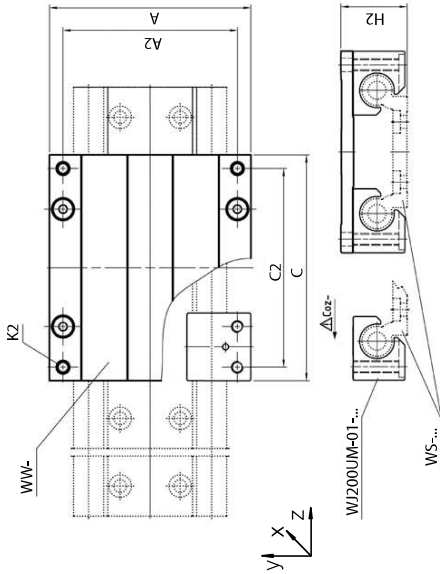
⁵⁷⁾ Height dimension minus the bearing clearance tolerance ⁵⁴⁾ Optionally available with manual clamp, suffix "-HKA"

Can be combined with:



Suitable liner material:

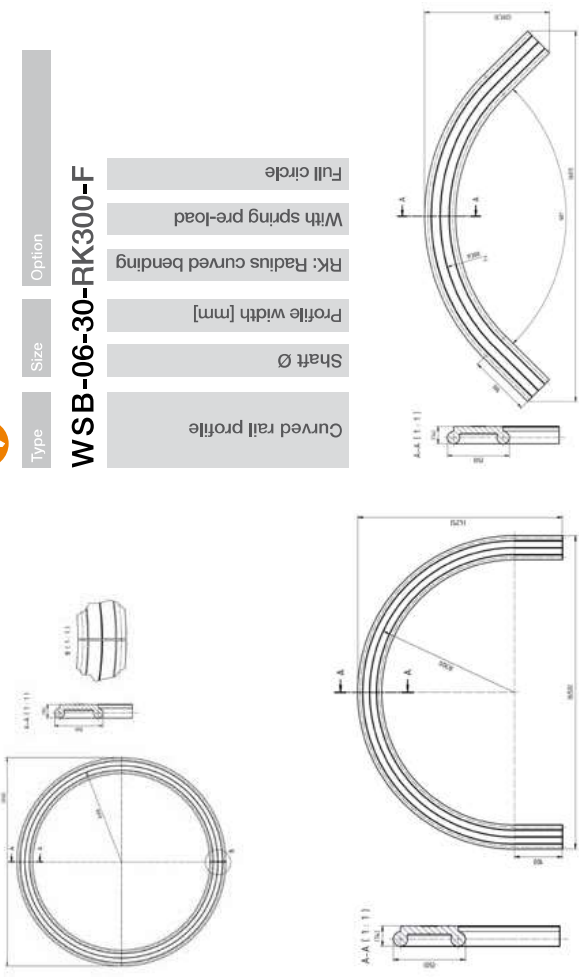
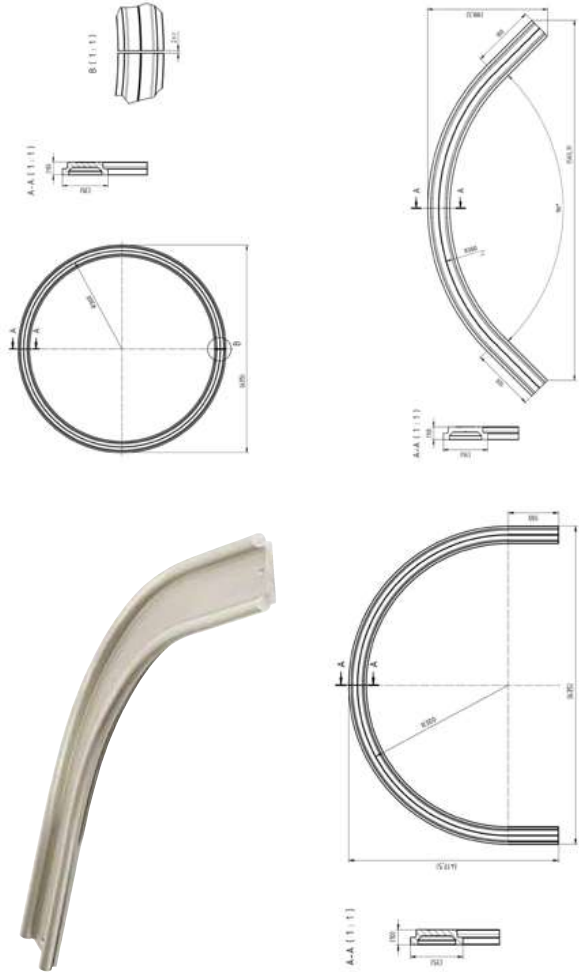




Technical data and dimensions [mm]

Part No. ⁽⁵⁴⁾	Weight		Width		A	Length		C	A2	C2	K2	H2 ⁽⁵⁷⁾	Static load capacity																
	[kg]		[mm]			[N]							Coy	Coz	Mox	Moy	Moz												
																		[N]	[N]	[Nm]	[Nm]	[Nm]							
																							±0.25						
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 ⁵⁴⁾ Optionally available with manual clamp, suffix "-HKA"



Type Size Option

WSB-06-30-RK300-F

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

More information
► www.igus.eu/curved



Curved rail profiles
► Page 906

Technical data and dimensions [mm]

Part No. ⁵⁴⁾	Matching carriage for curved rail	Design	Bend radius	End straight
WSB-06-30-RK300F ¹⁵¹⁾	WWB-06-30-06-R175	Full circle	60	–
WSB-06-30-RK300HS	WWB-06-30-06-R175	Half circle	60	100
WSB-06-30-RK300QS	WWB-06-30-06-R175	Quarter circle	60	100
WSB-06-30-RK500HS	WWB-06-30-06-R400	Half circle	60	100
WSB-06-30-RK500QS	WWB-06-30-06-R400	Quarter circle	60	100

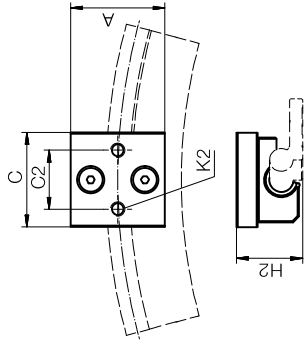
¹⁵¹⁾ The F version (full circle) has a transition of 2mm (±0.2). Due to the bending process, material displacement tolerances, which can be up to several millimetres depending on the bend direction and radius, must be taken into account.

RK: Radius curved bending

S: Straight rail ends in the case of semicircle and quarter circle

Can be combined with:





Order key

Type	Size	Option
W I3U B P-01-10-LLZ		
drylin® W		Liner material
iglidur® I3		Curved
Pre-load		Standard
Size		Floating bearing in
		y-direction



Order key

Type	Size	Option
WWB-10-40-10-P-HKA		
Guide carriages 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 906



Dimensions [mm]

Part No. ⁵⁴⁾	Weight [g]	A	C	C2	K2	H2
W I3UBP-01-10	50	40	40	25	M6	28
W I3UBP-01-10-R300-LLZ	44	40	40	25	M6	28
W I3UBP-01-10-R500-LLZ	44	40	40	25	M6	28
W I3UBP-01-10-LLZ	44	40	40	25	M6	28

Can be combined with:



WSB-...

Can be combined with:



WS-... WS-...-ES-FG WSB-...

Technical data and dimensions [mm]

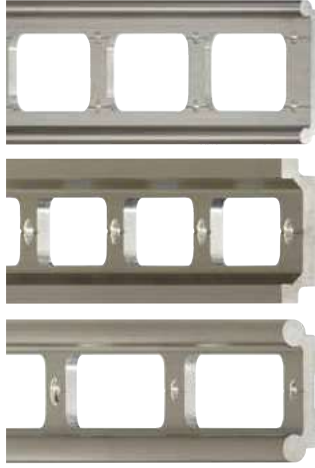
Part No. ⁵⁴⁾	Weight [kg]	A	C	A2	A3	C2	K2	H2	Vz	Kz
		±0.25	-0.1							
WWB-06-30-06 ⁵⁴⁾	0.31	58	60	30	16	30	M4	20	9	34
WWB-06-30-06-P ⁵⁴⁾	0.31	58	60	30	16	30	M4	20	7.5	29
WWB-06-30-06-R300 ¹⁴³⁾ -P ⁵⁴⁾	0.31	58	60	30	16	30	M4	20	7.5	29
WWB-10-40-10 ⁵⁴⁾	0.35	80	102	50	20	50	M6	28	9	34
WWB-10-40-10-P ⁵⁴⁾	0.35	80	102	50	20	50	M6	28	9	34
WWB-10-40-10-R300 ¹⁴³⁾ -P ⁵⁴⁾	0.35	80	102	50	20	50	M6	28	9	34

⁵⁴⁾ Optionally available with manual clamp, suffix "-HKA"

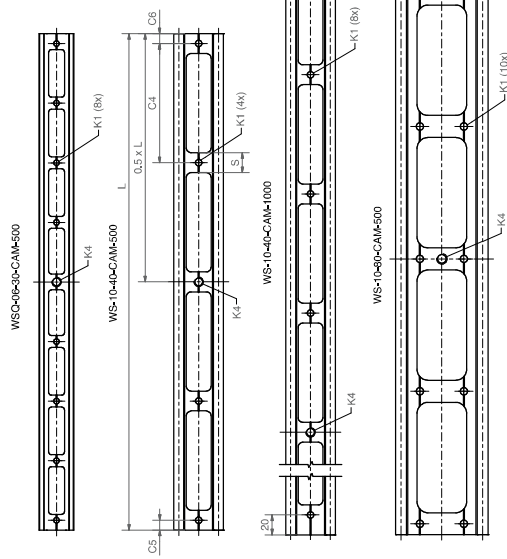
¹⁴³⁾ Optional for 500mm radius = R500

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.eu/camera

drylin® W profile guides | Product range

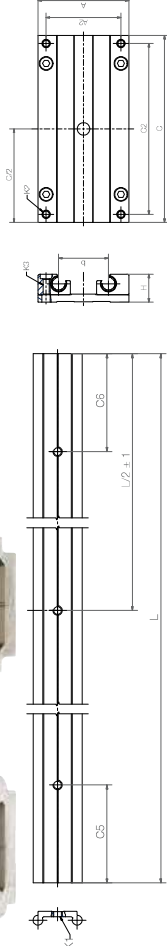
Double rails/carriages for camera slider



- 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 936](#)

Technical options:

- Adjustable bearing housing ► [Page 926](#)
- Manual clamp ► [Page 962](#)



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 ø10mm through hole for 3/8" thread Dimensions [mm]

Part No.	Size	C	A	Part No.	Size	C	A
WW-06-30-06-SL	06	60	54	WW-10-80-15-SL ⁶⁴⁾	10	150	107
WW-06-30-08-SL	06	80	54	WW-10-80-20-SL ⁶⁴⁾	10	200	107
WW-06-30-10-SL	06	100	54	WW-16-60-10-SL ⁶⁵⁾	16	100	104
WW-10-30-10-SL ⁶⁴⁾	10	100	63	WW-16-60-15-SL ⁶⁴⁾	16	150	104
WW-10-30-15-SL ⁶⁴⁾	10	150	63	WW-16-60-20-SL ⁶⁴⁾	16	200	104
WW-10-40-10-SL ⁶⁴⁾	10	100	73	WW-20-80-15-SL ⁶⁴⁾	20	150	134
WW-10-40-15-SL ⁶⁴⁾	10	150	73	WW-20-80-20-SL ⁶⁴⁾	20	200	134
WW-10-40-20-SL ⁶⁴⁾	10	200	73	WW-20-80-25-SL ⁶⁴⁾	20	250	134
WW-10-80-10-SL ⁶⁴⁾	10	100	107				

⁶⁴⁾ Optionally available 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:



Order key

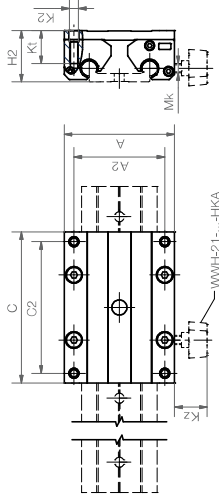


Ø 10mm
through hole for
3/8" thread for
cameras

Type	Dimensions	Design
drylin® W	Hybrid carriages	Double roller bearing
	Installation size	Carriage length [mm]
	WWH-21-10-40-10-SL	Slider carriage



Optionally available with manual clamp,
suffix "-HKA"



Technical data and dimensions [mm]

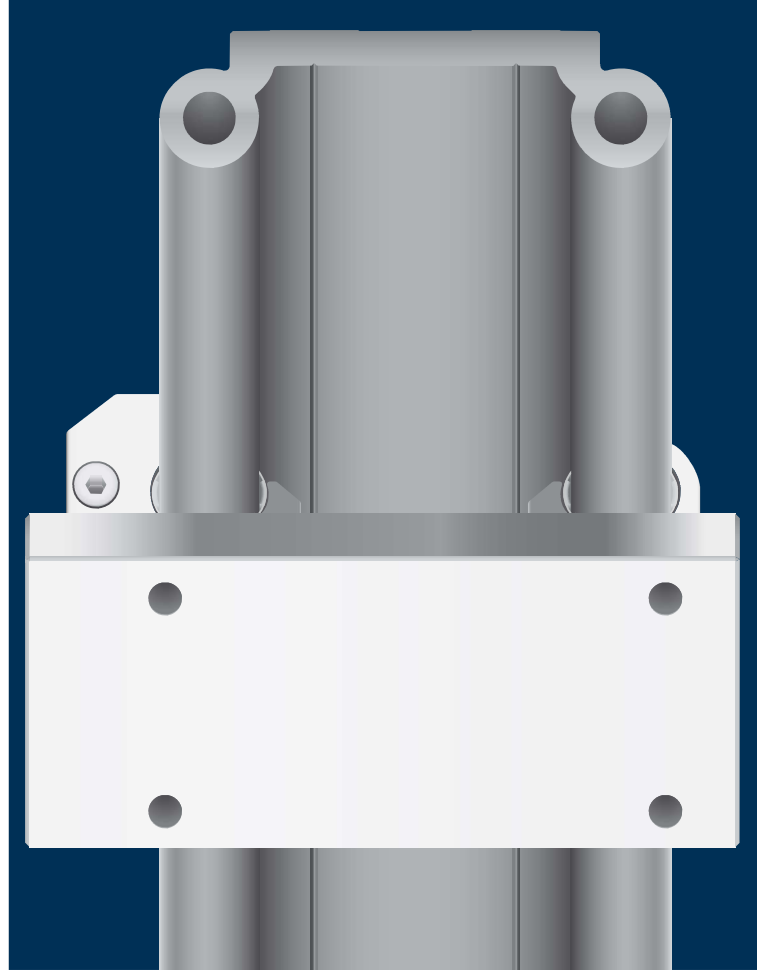
Part No.	Weight		Width		Length		Coy	Static load capacity
	[kg]		A	C	A2	C2		
WWH-21-10-40-10-SL	0.59	73	100	60	87	M6	21	34
WWH-21-10-40-15-SL	0.64	73	150	60	137	M6	21	34
WWH-21-10-40-20-SL	0.70	73	200	60	187	M6	21	34
WWH-21-10-80-10-SL	0.64	107	100	94	87	M6	21	34
WWH-21-10-80-15-SL	0.72	107	150	94	137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

Can be combined with:



Can be combined with camera slider rails

► Page 946



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

drylin® W rail made from hard-anodised aluminium

Housing made of robust zinc die-casting or durable stainless steel

Lubrication-free and quiet operation

Compact aluminium carriage with assembled drylin® W hybrid roller bearing

Liners made from iglidur® high-performance polymers

Can be combined with drylin® W linear profile rails

Easy to move thanks to the combination of rolling and sliding

Single and double rails

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 roller 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.eu/drylin-expert



Tightening torque for drylin® metallic screws

► Page 907

Slide and roll



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 954



Hybrid roller bearings with double rollers

- Low coefficient of rolling friction is still maintained with deviating load directions
- Increased load capacity
- Variable installation position

► Page 955

Hybrid roller bearing made of stainless steel with single roller

- Corrosion-free due to stainless steel housing
- Easy to clean

► Page 956



Hybrid roller bearing made of stainless steel with double rollers

- Corrosion-free due to stainless steel housing
- High media resistance

► Page 956



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 958

Complete carriages WWH

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

► Page 959



Suitable rail profiles
► From page 922



Camera slider
► From page 947



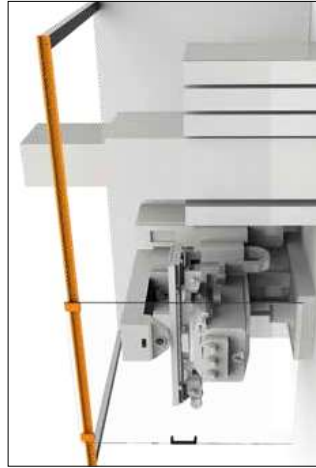
The smooth, quiet operation and the enormous cost advantages are obtained by the use of the drylin® linear bearings on the hard-anodised guide shaft to guide the doors of machine tools.



Adjustment control panel unit



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



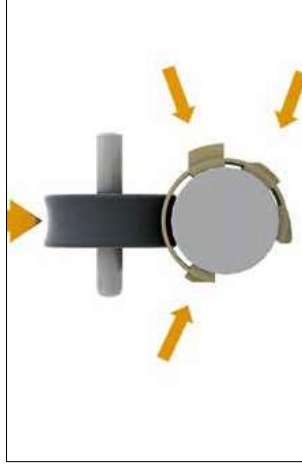
The new drylin® W hybrid carriage with "door opener" function.



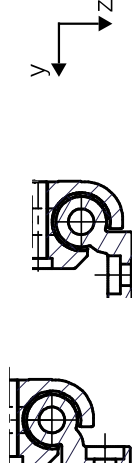
drylin® W hybrid roller bearings in combination with drylin® W profile guides offer optimum opportunities to construct dollies and sliders.

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.



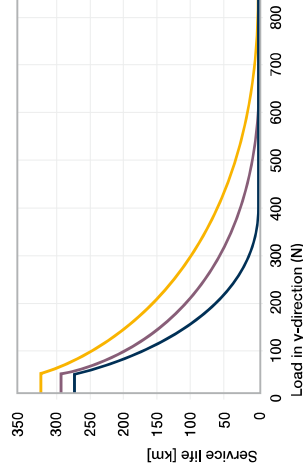
Forces absorbed by hybrid roller bearing



Installation position 01

Installation position 02

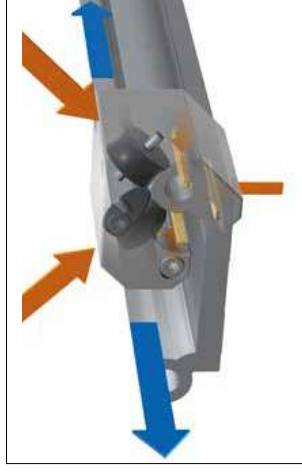
Installation position WJRM-01-...



WJRM-01-10 WJRM-01-16 WJRM-01-20

drylin® W hybrid roller bearings type 21

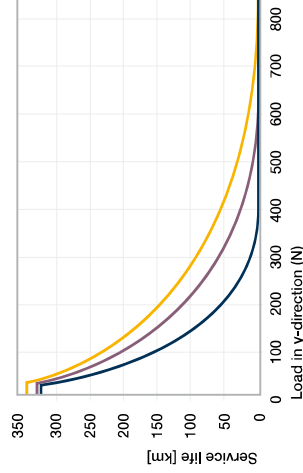
The drylin® W hybrid roller bearings in the WJRM-21-... type series are each equipped with two bearing-supported plastic rollers at an angle of 70° or 80°. Available in three installation sizes, they can be combined with drylin® W single and double rails. The double roller bearings offer a higher load 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.



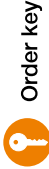
Hybrid double roller bearing applicable force absorption



Installation position WJRM-21-...



WJRM-21-10 WJRM-21-16 WJRM-21-20

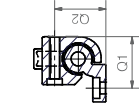
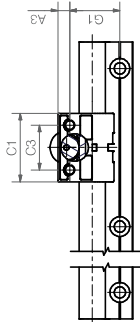


Order key

Type	Size
------	------

WJRM-01-10

Hybrid roller bearings	Single roller bearing	Size 10
------------------------	-----------------------	---------



Installation
position 01

Installation
position 02



Installation position 02 in installation size ø10
when using a WJRM-02-10 hybrid roller bearing

Technical data and dimensions [mm]

Part No.	Static load capacity Co	Dyn. load capacity Cz+			F · v	
		10	100	200	Max.	
	[N]	[N]	[N]	[N]	[N · m/s]	
WJRM-01-10 ⁷⁾	250	90	50	20	50	
WJRM-01-16	400	140	70	28	80	
WJRM-01-20	550	200	100	40	80	

Part No.	Coefficient of friction in z-direction	Weight	A1	A3	B	B2	C1	C3	G1	H	K2 for thread	K3 for screw	Q1	Q2
	[μ]	[g]												
WJRM-01-10 ⁷⁾	< 0.1	46	16.5	6.5	26	2.5	35	22	27	18	M6	M5	-	-
WJRM-01-16	< 0.1	131	25	9	34.5	5	48	30	33	27	M8	M6	32	28
WJRM-01-20	< 0.1	232	30	9	42.5	6	52	34	38	36	M8	M6	37	37

⁷⁾ Deviating from WJRM-02-10, available with an expanded opening angle for installation position 02

Can be combined with:



Optionally available with manual clamp,
suffix "-HKA"



Can be combined with:

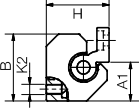


Order key

Type	Size
------	------

WJRM-21-10

Hybrid roller bearings	Double roller bearing	Size 10
------------------------	-----------------------	---------



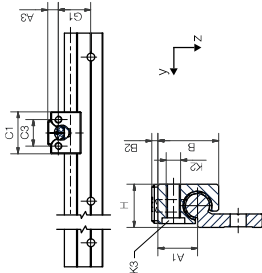
Technical data and dimensions [mm]

Part No.	Static load capacity Co	Dyn. load capacity Cz+			F · v	
		10	100	200	Max.	
	[N]	[N]	[N]	[N]	[N · m/s]	
WJRM-21-10	350	125	70	50	50	
WJRM-21-16	600	210	105	80	80	
WJRM-21-20	840	300	150	80	80	

Part No.	Coefficient of friction y-direction	Weight	A1	A3	B	C1	C3	G1	H	K2 for screw
	[μ]	[g]								
WJRM-21-10	< 0.1	115	16.5	6.5	31	35	22	27	28	M6
WJRM-21-16	< 0.1	250	25	9	44	48	30	33	41	M8
WJRM-21-20	< 0.1	320	30	9	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

WJRM-01 with single roller



Order key

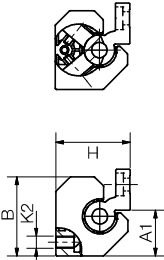
Type	Size	Material
WJRM-01-10-ES		
Hybrid roller bearing	Size 10	Material
Stainless steel		
ES: Stainless steel (AISI 316Ti)		
ES-FG: Stainless steel precision casting AISI 316		
AL: Aluminium		

Technical data and dimensions [mm]

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

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

WJRM-21 with double roller



Order key

Type	Size	Material
WJRM-21-20-ES		
Hybrid roller bearing	Size 20	Material
Stainless steel		
ES: Stainless steel (AISI 316Ti)		
ES-FG: Stainless steel precision casting AISI 316		

Technical data and dimensions [mm]

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

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

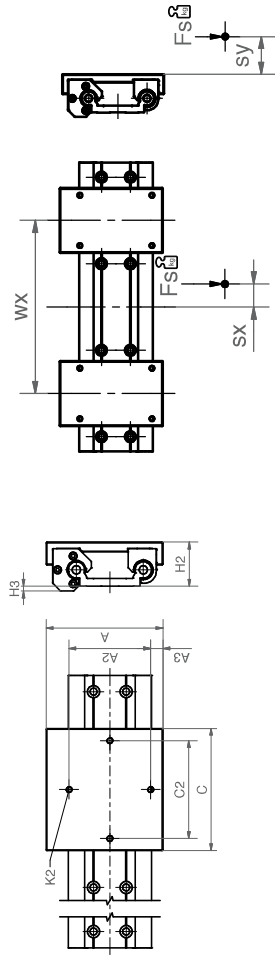


Order key

Type	Size	Option
WWR-21-80 - 01		
drylin® W	Hybrid carriages	Compact
	Double roller bearing	
	Installation size	

Options:

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



Technical data and dimensions [mm]

Part No.	A	C	A2	C2	H2	A3	H3	sx min.	sx max.	sy min.	sy max.	
	Width		Length		±0.17							
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

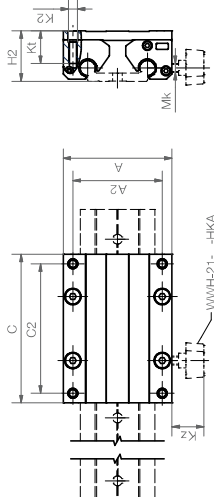
Can be combined with:



Order key

Type	Dimensions
WWH-21-10-40-10	
drylin® W	Hybrid carriages
	Double roller bearing
	Installation size
	Carriage length [mm]

Optionally available with manual clamp, suffix "-HKA"



Technical data and dimensions [mm]

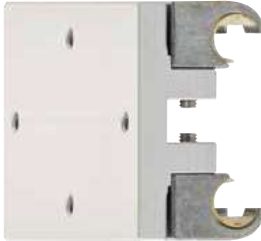
Part No.	Weight	A	C	A2	C2	K2	Kt	H2	Static load capacity
	[kg]	Width		Length					
WWH-21-10-40-10	0.59	73	100	60	87	M6	21	34	1,400
WWH-21-10-40-15	0.64	73	150	60	137	M6	21	34	1,400
WWH-21-10-40-20	0.70	73	200	60	187	M6	21	34	1,400
WWH-21-10-80-10	0.64	107	100	94	87	M6	21	34	1,400
WWH-21-10-80-15	0.72	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:

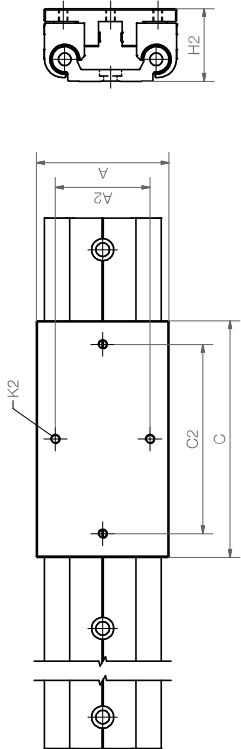




Order key



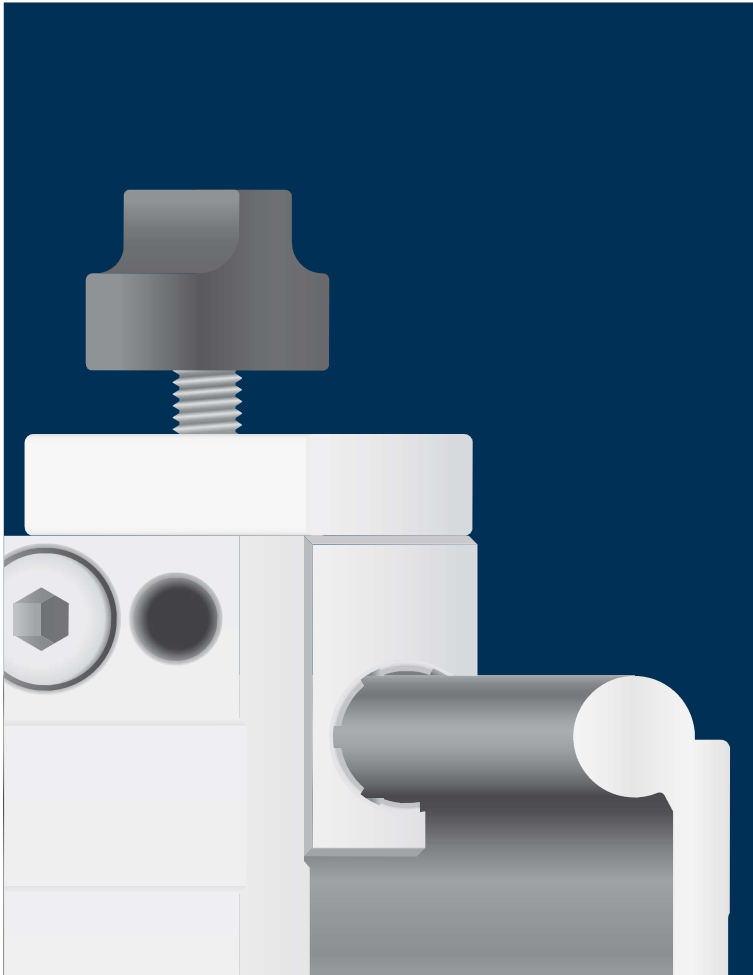
Type	Dimensions
drylin® W	Hybrid carriages
WWH-10-40-10	Installation size
	Carriage length [mm]



Technical data and dimensions [mm]

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

Can be combined with:



drylin® linear technology –
Accessories

Manual clamps

Liners

End caps

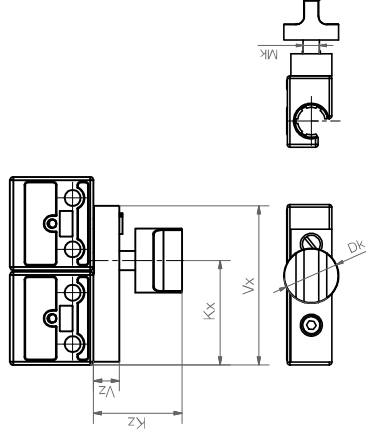
Slot nuts

Clamps



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 ⁶⁸⁾	M6	50	33	8	28	20	30N	0,8Nm
WHKA-16 ⁶⁸⁾	M8	72	41	10	31	28	60N	1,5Nm
WHKA-20 ⁶⁸⁾	M8	90	62	10	31	28	70N	1,5Nm
WHKA-25 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 "-HKA", order example: WW-10-40-10-HKA). Dimensions complete carriage WWQ ▶ Page 939

Accessories: aluminium manual clamp



Technical data and dimensions [mm]

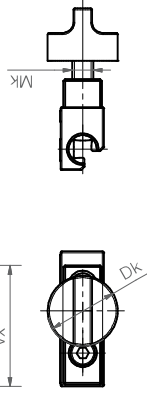
Part No.	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding force ⁶⁷⁾	Min. tightening torque
WHKA-10-AL ⁶⁸⁾	M6	50	33	8	28	20	30N	0,8Nm
WHKA-16-AL ⁶⁸⁾	M8	72	41	10	31	28	60N	1,5Nm
WHKA-20-AL ⁶⁸⁾	M8	90	62	10	31	28	70N	1,5Nm
WHKA-25-AL ⁶⁸⁾	M8	96	65	12	31	28	70N	1,5Nm

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 939

drylin® W profile guides | Product range

Accessories: Manual clamp for square rails



Technical data and dimensions [mm]

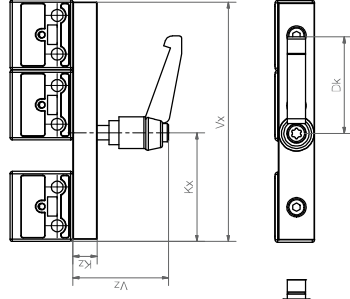
Part No.	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding force ⁶⁷⁾	Min. tightening torque
WHKAQ-06 ¹³⁷⁾	M6	34,5	21,5	8	28	20	30N	0,8Nm
WHKAQ-10 ¹³⁷⁾	M6	50	33	8	28	20	30N	0,8Nm
WHKAQ-16 ¹³⁷⁾	M8	72	41	10	31	28	60N	1,5Nm
WHKAQ-20 ¹³⁷⁾	M8	90	62	10	31	28	70N	1,5Nm

⁶⁷⁾ Condition: dry rail surface

¹³⁷⁾ Aluminium version available, suffix "-AL"

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 934

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 "-HKA", order example: WW-10-40-10-HKD). Dimensions complete carriage WW ▶ Page 939



 Order key

Type	Size	Material
WJRM-21-10 - HKA		
Hybrid roller bearing	Size 10	Material ES: Stainless steel (AISI 316Ti) ES-FG: Stainless steel precision casting AISI 316 AL: Aluminium
		Stainless steel
Single roller bearing		

drylin® W profile guides | Product range

Accessories: Liners and end caps for high profile rails

drylin® W plastic liners – long, open design

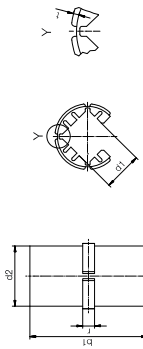


Size	Material	Pillow blocks	Liners Part No.	in the drylin® R-Chapter
10/16/20/25 (standard)	igidur® J200	WJ200UM-01-Ø	J200UMO-01-Ø ⁷⁰⁾	► Page 1026
10/16/20/25	igidur® J	WJUM-01-Ø	JUMO-01-Ø	► Page 1020
10/16/20/25 (high temperature)	igidur® X	WXUM-01-Ø	XUMO-01-Ø	► Page 1031
10/16/20/25	igidur® E7	WE7UM-01-Ø	E7UMO-01-Ø	► Page 1028

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)

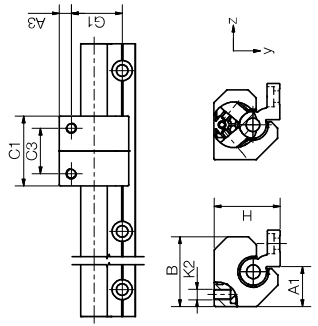
drylin® W plastic liners – adjustable



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

drylin® W profile guides | Product range

Accessories: Manual clamp for drylin® W hybrid roller bearings



Technical data and dimensions [mm]

Part No.	Weight	A1	A3	B	C1	C3	G1	H	K2 for screw	Kz
[g]										
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 plastic liners



Size	Material	Pillow blocks	Liners Part No.
10	igtalur® J200	WJ200UMA-01-10-AL	J200UMA-01-10

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

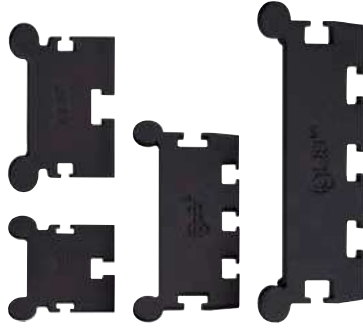


- Consisting of
- 4 liners **J200UMA-01-10**
 - 4 housing end caps **WRZ-0110071**
 - Assembly tool **MAT0051290**



Part No.:
WEKA-01-10-J200

End caps for drylin® high profile rails WSX



- For drylin® W high profile rails WSX
- ▶ **Page 937**
- 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 931, 937**
- Secure retention
- Can be retrofitted



Part No.:
WSX-06-30
WSX-06-60
WSX-10-40
WSX-10-80
WSX-16-60
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 931, 937**



Part No.:
ZLW-0630
ZLW-0660
ZLW-1040
ZLW-1080
ZLW-1660