

## drylin® W Modular Guide Systems



Easy to install

Lubrication-free

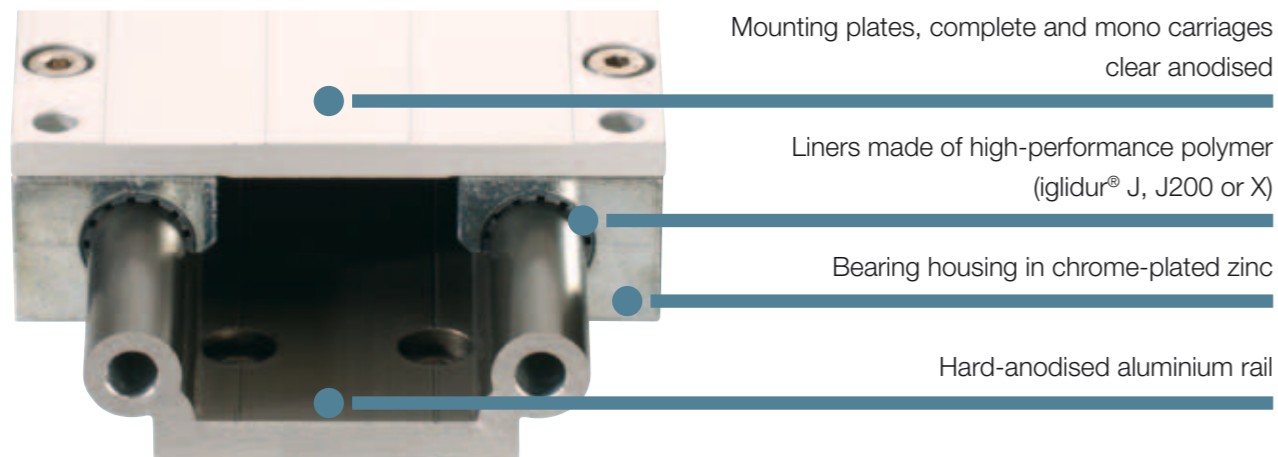
Different carriage lengths available

Different rail widths available

Low installation height

Corrosion-resistant

drylin® W is offered as a cost-effective, fully assembled system. The design of drylin® W promotes design flexibility and ease of assembly, with both single and double rail configurations. Hard anodised aluminium is used as the rail material, and drylin® W also offers low wear, low friction without lubrication, resistance to dirt and dust, low weight and quiet operation.



#### House bearing single, square or round



#### Single rail square or round

#### Double rail square or round

#### Double carriage square or round



#### Advantages:

- Easy installation, maintenance-free
- lightweight, low noise and dry-running
- Angular rail with floating bearing function for diagonal assembly
- VA stainless steel version (optional)
- Available from stock with manually adjustable clearance, with manual clamping and as hybrid linear bearing with integrated roller



Lubrication-free



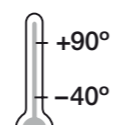
Cleanroom certificated  
IPA Fraunhofer  
▶ page 902



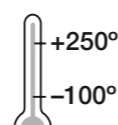
Free of toxins  
ROHS 2002/95/EC



ESD compatible  
(electrostatic  
discharge)



Temperature  
Standard



Temperature  
Stainless steel



#### When not to use it?

- When I require the same dimension as in roller bearing solutions  
▶ drylin® T, page 903, ▶ drylin® R, page 975
- When I require an integrated drive  
▶ drylin® drive technology, page 1141

#### Lubrication-free operation

- Liners made of high-performance polymer iglidur® J200/J guarantee optimum running properties and long service life
- Liners in iglidur® X for extreme environmental conditions (chemicals/temperature)

#### Customized clearance adjustment

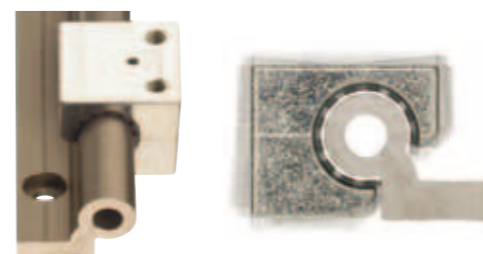
- Alternatively, continuously adjustable bearing clearance



#### Single rail – square geometry

- Flexible to use, reduce installation costs
- Compensation of rotation angle errors
- Individual rail and bearing housings are available in sizes 06, 10, 16 and 20

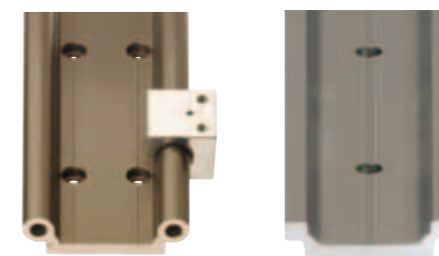
▶ page 952



#### Single rail – round geometry

- Flexible use of installation space
- Offers good torque support in parallel operation
- Resistant to dirt and dust
- Individual rail and bearing housings are available in sizes 10, 16, 20 and 25

▶ page 954



#### Double rail

- High torque support and extreme torsional rigidity
- Simple and fast installation
- Individual rail and bearing housings are available in sizes 06, 10, 16, 20 and 25

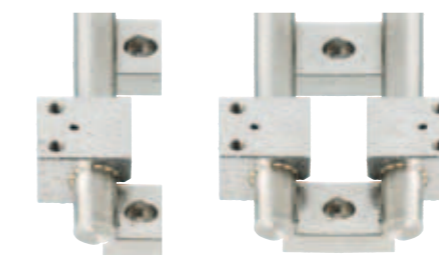
▶ page 958 and 962



#### Complete Carriage

- For all double rails in various lengths
- Assembled system ready for installation
- Options include adjustable bearings and manual clamp

▶ page 959 and 963



#### Stainless Steel

- combine guide shafts made of material 1.4571 (V4A) with machined parts made of V4A and/or stainless steel precision cast parts made of material 1.4408
- chemical- and corrosion-resistant

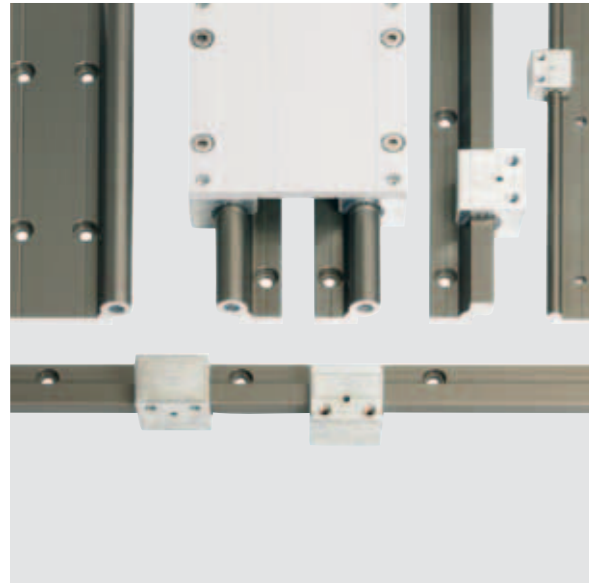
▶ page 970



#### Specialists

- for all round rail shapes
- clearance-adjustable bearings
- bearings with support rollers (for smooth running in manual operation)

▶ from page 955



### Typical sectors of industry and application areas

- Agricultural ● Vehicle manufacturing
- Medical ● Architectural
- Packaging ● Furniture
- Robotics ● Sheet metal industry etc.

Improve technology and reduce costs – 170 exciting examples online

► [www.igus.co.uk/drylin-applications](http://www.igus.co.uk/drylin-applications)



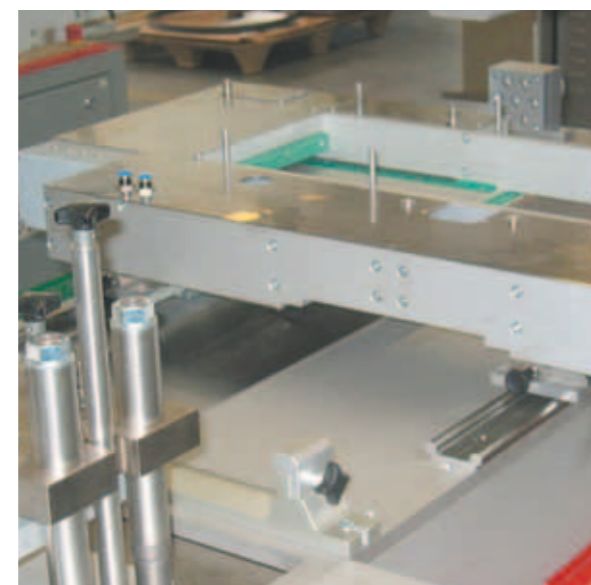
Flatbed ink-jet printer



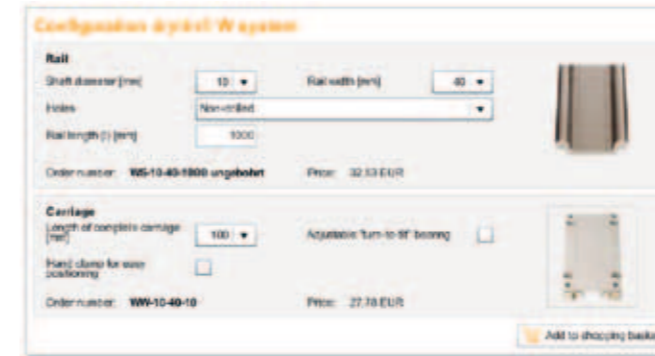
Mobile saw mill



► [www.igus.co.uk/safety-door](http://www.igus.co.uk/safety-door)



► [www.igus.co.uk/packaging](http://www.igus.co.uk/packaging)



Various free online configurators are also available for drylin® W linear guides. These provide support for calculating the function and service life, and when integrating the selected linear guide into your 3D model. With only a few clicks, the drylin® W linear guide can be ordered in the required configuration through the online shop. Shipment is made within 24-48 hours!

► [www.igus.co.uk/drylinW-configurator](http://www.igus.co.uk/drylinW-configurator)



Analyse the function of your application and to determine the expected service life: these are the tasks performed by the drylin® expert 2.0 calculation program. Only 4 steps are required to obtain a definitive statement about the operating behaviour of the application, as well as a host of important technical parameters, such as the expected wear and the required driving forces.

► [www.igus.co.uk/drylin-expert](http://www.igus.co.uk/drylin-expert)



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

► [www.igus.co.uk/drylin-CAD](http://www.igus.co.uk/drylin-CAD)

Housing bearings and Rails single, round or square ● available from stock

Max. length [mm]	Size	Housing	Bearing	Properties	Aluminium (Standard) Single rail			
					WS-10	WS-16	WS-20	WS-25
WJ200UM-01-10	10	Zinc diecasting	iglidur® J200	Standard	●			
WJ200UM-01-10-LL	10	Zinc diecasting	iglidur® J200	Floating bearing	●			
WJ200UM-11-10	10	Zinc diecasting	iglidur® J200	Reduced clearance	●			
WJUME-01-10	10	Zinc diecasting	iglidur® J	adjustable clearance	●			
WJRM-01-10	10	Zinc diecasting	Rolle/ iglidur® J	Hybrid, slide/roll	●			
WJUM-01-10-ES-FG	10	Stainless steel	iglidur® J	Standard	●			
WJUM-01-10-ES-FG-LL	10	Stainless steel	iglidur® J	Floating bearing	●			
WXUM-01-10-ES-FG	10	Stainless steel	iglidur® X	High temperature				
WA180UM-01-10-ES-FG	10	Stainless steel	iglidur® A180	FDA				
WHKA-10	10	Zinc diecasting	iglidur® J200	Manual clamp	●			
WJ200UM-01-16	16	Zinc diecasting	iglidur® J200	Standard		●		
WJ200UM-01-16-LL	16	Zinc diecasting	iglidur® J200	Floating bearing		●		
WJ200UM-11-16	16	Zinc diecasting	iglidur® J200	Reduced clearance		●		
WJ200UME-01-16	16	Zinc diecasting	iglidur® J200	adjustable clearance		●		
WJRM-01-16	16	Zinc diecasting	iglidur® J200	Hybrid, slide/roll		●		
WHKA-16	16	Zinc diecasting	iglidur® J200	Manual clamp		●		
WJ200UM-01-20	20	Zinc diecasting	iglidur® J200	Standard			●	
WJ200UM-01-20-LL	20	Zinc diecasting	iglidur® J200	Floating bearing			●	
WJ200UM-11-20	20	Zinc diecasting	iglidur® J200	Reduced clearance			●	
WJ200UME-01-20	20	Zinc diecasting	iglidur® J200	adjustable clearance			●	
WJRM-01-20	20	Zinc diecasting	iglidur® J200	Hybrid, slide/roll			●	
WJRM-21-20	20	Zinc diecasting	iglidur® J	Hybrid double roller bearing			●	
WJUM-01-20-ES-FG	20	Stainless steel	iglidur® J	Standard			●	
WXUM-01-20-ES-FG	20	Stainless steel	iglidur® X	High temperature				
WHKA-20	20	Zinc diecasting	iglidur® J200	Manual clamp			●	
WJ200UM-01-25	25	Zinc diecasting	iglidur® J200	Standard				●
WJ200UM-11-25	25	Zinc diecasting	iglidur® J200	Reduced clearance				●
WHKA-25	25	Zinc diecasting	iglidur® J200	Manual clamp				●

Housing bearings and Rails single, square ● available from stock

Max. Length [mm]	Size	Housing	Bearing	Properties	Aluminium (Standard) Single Rail			
					WSQ-06	WSQ-10	WSQ-16	WSQ-20
WJ200QM-01-06	06	Zinc diecasting	iglidur® J200	Standard	●			
WJ200QM-01-06-LLZ	06	Zinc diecasting	iglidur® J200	Floating bearing z-direction	●			
WJ200QM-01-06-LLY	06	Zinc diecasting	iglidur® J200	Floating bearing y-direction	●			
WJ200QM-01-10	10	Zinc diecasting	iglidur® J200	Standard		●		
WJ200QM-01-10-LLZ	10	Zinc diecasting	iglidur® J200	Floating bearing z-direction		●		
WJ200QM-01-10-LLY	10	Zinc diecasting	iglidur® J200	Floating bearing y-direction		●		
WJ200QM-01-16	16	Zinc diecasting	iglidur® J200	Standard			●	
WJ200QM-01-16-LLZ	16	Zinc diecasting	iglidur® J200	Floating bearing z-direction			●	
WJ200QM-01-16-LLY	16	Zinc diecasting	iglidur® J200	Floating bearing y-direction			●	
WJ200QM-01-20	20	Zinc diecasting	iglidur® J200	Standard				●
WJ200QM-01-20-LLZ	20	Zinc diecasting	iglidur® J200	Floating bearing z-direction				●
WJ200QM-01-20-LLY	20	Zinc diecasting	iglidur® J200	Floating bearing y-direction				●

Max. Length [mm]	Aluminium (Standard) Double Rails						Stainl. steel rail V4A		Aluminium-Sonder-Doppelschienen					page	
	WS-10-40	WS-10-80	WS-10-120	WS-16-60	WS-20-80	WS-25-120	single	double	Inch connections				reduced weight		
							WS-20-ES-FG	WS-10-40-ES-FG	WS-10-40-SL	WS-10-80-SL	WS-16-60-SL	WS-20-80-SL	WS-10-40-CAM		WS-10-80-CAM
WJ200UM-01-10	4,000	4,000	4,000	4,000	4,000	4,000	3,000	3,000	1,000/1,500	1,000/1,500	1,000/1,500	1,000/1,500	500/1,000	500	955
WJ200UM-01-10-LL	●	●	●										●	●	955
WJ200UM-11-10	●	●	●										●	●	*
WJUME-01-10	●	●	●										●	●	955
WJRM-01-10	●	●	●										●	●	957
WJUM-01-10-ES-FG	●	●	●					●					●	●	971
WJUM-01-10-ES-FG-LL	●	●	●					●					●	●	**
WXUM-01-10-ES-FG								●							971
WA180UM-01-10-ES-FG								●							***
WHKA-10	●	●	●							●	●		●	●	968
WJ200UM-01-16				●								●			955
WJ200UM-01-16-LL				●								●			955
WJ200UM-11-16				●								●			*
WJ200UME-01-16				●								●			955
WJRM-01-16				●								●			957
WHKA-16				●								●			968
WJ200UM-01-20					●							●			955
WJ200UM-01-20-LL					●							●			955
WJ200UM-11-20					●							●			*
WJ200UME-01-20					●							●			955
WJRM-01-20					●							●			957
WJRM-21-20					●							●			957
WJUM-01-20-ES-FG					●			●							971
WXUM-01-20-ES-FG								●							971
WHKA-20					●							●			968
WJ200UM-01-25															955
WJ200UM-11-25															955
WHKA-25															955

Max. Length [mm]	Aluminium (Standard) Double Rails					Aluminium-Special-double-rail		page
	WSQ-06-30	WSQ-10-40	WSQ-10-80	WSQ-16-60	WSQ-20-80	Inch connections	reduced weight	
						WS-06-30-SL	WSQ-06-30-CAM	
WJ200QM-01-06	3,000	4,000	4,000	4,000	4,000	1,000/1,500	500	953
WJ200QM-01-06-LLZ	●					●	●	953
WJ200QM-01-06-LLY	●					●	●	953
WJ200QM-01-10		●	●					953
WJ200QM-01-10-LLZ		●	●					953
WJ200QM-01-10-LLY		●	●					953
WJ200QM-01-16				●				953
WJ200QM-01-16-LLZ				●				953
WJ200QM-01-16-LLY				●				953
WJ200QM-01-20					●			953
WJ200QM-01-20-LLZ					●			953
WJ200QM-01-20-LLY					●			953

Housing bearing options (please contact us for more information):


\* lower clearance, \*\* floating bearing, \*\*\* Liner made of FDA-conforming material iglidur® A180

Complete Carriage for double rails, round ● available from stock



	Size	Housing	Mounting plate	Bearing	Length	Width	Properties
Max. Length [mm]							
WW-10-40-10	10-40	Zinc diecasting	Aluminium	iglidur® J200	100	73	Standard
WW-10-40-10-HKA	10-40	Zinc diecasting	Aluminium	iglidur® J200	100	73	manual clamp
WW-10-40-10-SL*	10-40	Zinc diecasting	Aluminium	iglidur® J200	100	73	ø 10 mm bore for 3/8"
WW-10-40-15	10-40	Zinc diecasting	Aluminium	iglidur® J200	150	73	Standard
WW-10-40-15-HKA	10-40	Zinc diecasting	Aluminium	iglidur® J200	150	73	manual clamp
WW-10-40-15-SL*	10-40	Zinc diecasting	Aluminium	iglidur® J200	150	73	ø 10 mm bore for 3/8"
WW-10-40-20	10-40	Zinc diecasting	Aluminium	iglidur® J200	200	73	Standard
WW-10-40-20-HKA	10-40	Zinc diecasting	Aluminium	iglidur® J200	200	73	manual clamp
WW-10-40-20-SL*	10-40	Zinc diecasting	Aluminium	iglidur® J200	200	73	ø 10 mm bore for 3/8"
WW-10-80-10	10-80	Zinc diecasting	Aluminium	iglidur® J200	100	107	Standard
WW-10-80-10-HKA	10-80	Zinc diecasting	Aluminium	iglidur® J200	100	107	manual clamp
WW-10-80-10-SL*	10-80	Zinc diecasting	Aluminium	iglidur® J200	100	107	ø 10 mm bore for 3/8"
WW-10-80-15	10-80	Zinc diecasting	Aluminium	iglidur® J200	150	107	Standard
WW-10-80-15-HKA	10-80	Zinc diecasting	Aluminium	iglidur® J200	150	107	manual clamp
WW-10-80-15-SL*	10-80	Zinc diecasting	Aluminium	iglidur® J200	150	107	ø 10 mm bore for 3/8"
WW-10-80-20	10-80	Zinc diecasting	Aluminium	iglidur® J200	200	107	Standard
WW-10-80-20-HKA	10-80	Zinc diecasting	Aluminium	iglidur® J200	200	107	manual clamp
WW-10-80-20-SL*	10-80	Zinc diecasting	Aluminium	iglidur® J200	200	107	ø 10 mm bore for 3/8"
WW-10-120-10	10-120	Zinc diecasting	Aluminium	iglidur® J200	100	153	Standard
WW-10-120-10-HKA	10-120	Zinc diecasting	Aluminium	iglidur® J200	100	153	manual clamp
WW-10-120-15	10-120	Zinc diecasting	Aluminium	iglidur® J200	150	153	Standard
WW-10-120-15-HKA	10-120	Zinc diecasting	Aluminium	iglidur® J200	150	153	manual clamp
WW-10-120-20	10-120	Zinc diecasting	Aluminium	iglidur® J200	200	153	Standard
WW-10-120-20-HKA	10-120	Zinc diecasting	Aluminium	iglidur® J200	200	153	manual clamp
WW-16-60-10	16-60	Zinc diecasting	Aluminium	iglidur® J200	100	104	Standard
WW-16-60-SL*	16-60	Zinc diecasting	Aluminium	iglidur® J200	100	104	ø 10 mm bore for 3/8"
WWH-16-60-15	16-60	Zinc diecasting	Aluminium	iglidur® J	150	84	Gleiten und rollen
WW-16-60-15	16-60	Zinc diecasting	Aluminium	iglidur® J200	150	104	Standard
WW-16-60-15-HKA	16-60	Zinc diecasting	Aluminium	iglidur® J200	150	104	manual clamp
WW-16-60-15-SL*	16-60	Zinc diecasting	Aluminium	iglidur® J200	150	104	ø 10 mm bore for 3/8"
WW-16-60-20	16-60	Zinc diecasting	Aluminium	iglidur® J200	200	104	Standard
WW-16-60-20-HKA	16-60	Zinc diecasting	Aluminium	iglidur® J200	200	104	manual clamp
WW-16-60-20-SL*	16-60	Zinc diecasting	Aluminium	iglidur® J200	200	104	ø 10 mm bore for 3/8"
WW-20-80-15	20-80	Zinc diecasting	Aluminium	iglidur® J200	150	134	Standard
WW-20-80-15-HKA	20-80	Zinc diecasting	Aluminium	iglidur® J200	150	134	manual clamp
WW-20-80-15-SL*	20-80	Zinc diecasting	Aluminium	iglidur® J200	150	134	ø 10 mm bore for 3/8"
WW-20-80-20	20-80	Zinc diecasting	Aluminium	iglidur® J200	200	134	Standard
WW-20-80-20-HKA	20-80	Zinc diecasting	Aluminium	iglidur® J200	200	134	manual clamp
WW-20-80-20-SL*	20-80	Zinc diecasting	Aluminium	iglidur® J200	200	134	ø 10 mm bore for 3/8"
WW-20-80-25	20-80	Zinc diecasting	Aluminium	iglidur® J200	250	134	Standard
WW-20-80-25-HKA	20-80	Zinc diecasting	Aluminium	iglidur® J200	250	134	manual clamp
WW-20-80-25-SL*	20-80	Zinc diecasting	Aluminium	iglidur® J200	250	134	ø 10 mm bore for 3/8"
WW-25-120-15	25-120	Zinc diecasting	Aluminium	iglidur® J200	150	195	Standard
WW-25-120-20	25-120	Zinc diecasting	Aluminium	iglidur® J200	200	195	Standard
WW-25-120-25	25-120	Zinc diecasting	Aluminium	iglidur® J200	250	195	Standard

Slider carriage also available with manual clamping, designation suffix „-HKA“



Max. Length [mm]	Aluminium (Standard)						Aluminium-Special Double-Rails						page
	Double Rail						Inch connections				reduced weight		
	WS-10-40	WS-10-80	WS-10-120	WS-16-60	WS-20-80	WS-25-120	WS-10-40-SL	WS-10-80-SL	WS-16-60-SL	WS-20-80-SL	WS-10-40-CAM	WS-10-80-CAM	
	4,000	4,000	4,000	4,000	4,000	4,000	1,000/1,500	1,000/1,500	1,000/1,500	1,000/1,500	1,000/1,500	1,000/1,500	
WW-10-40-10	●						●				●		963
WW-10-40-10-HKA	●						●				●		963
WW-10-40-10-SL	●						●				●		967
WW-10-40-15	●						●				●		963
WW-10-40-15-HKA	●						●				●		963
WW-10-40-15-SL	●						●				●		967
WW-10-40-20	●						●				●		963
WW-10-40-20-HKA	●						●				●		963
WW-10-40-20-SL	●						●				●		967
WW-10-80-10		●						●				●	963
WW-10-80-10-HKA		●						●				●	963
WW-10-80-10-SL		●						●				●	967
WW-10-80-15		●						●				●	963
WW-10-80-15-HKA		●						●				●	963
WW-10-80-15-SL		●						●				●	967
WW-10-80-20		●						●				●	963
WW-10-80-20-HKA		●						●				●	963
WW-10-80-20-SL		●						●				●	967
WW-10-120-10			●										963
WW-10-120-10-HKA			●										963
WW-10-120-15			●										963
WW-10-120-15-HKA			●										963
WW-10-120-20			●										963
WW-10-120-20-HKA			●										963
WW-16-60-10				●						●			963
WW-16-60-SL				●						●			967
WWH-16-60-15				●						●			964
WW-16-60-15				●						●			963
WW-16-60-15-HKA				●						●			963
WW-16-60-15-SL				●						●			967
WW-16-60-20				●						●			963
WW-16-60-20-HKA				●						●			963
WW-16-60-20-SL				●						●			967
WW-20-80-15					●						●		963
WW-20-80-15-HKA					●						●		963
WW-20-80-15-SL					●						●		967
WW-20-80-20					●						●		963
WW-20-80-20-HKA					●						●		963
WW-20-80-20-SL					●						●		967
WW-20-80-25					●						●		963
WW-20-80-25-HKA					●						●		963
WW-20-80-25-SL					●						●		967
WW-25-120-15												●	963
WW-25-120-20												●	963
WW-25-120-25												●	963

Complete Carriage for double rails, square ● available from stock

	Size	Housing	Mounting plate	Bearing	Length	Width	Properties	page
WW-06-30-06	06-30	Zinc diecasting	Aluminium	iglidur® J200	60	54	Standard	959
WW-06-30-06-SL	06-30	Zinc diecasting	Aluminium	iglidur® J200	60	54	ø10 mm bore for 3/8"	967
WW-06-30-08	06-30	Zinc diecasting	Aluminium	iglidur® J200	80	54	Standard	959
WW-06-30-08-SL	06-30	Zinc diecasting	Aluminium	iglidur® J200	80	54	ø10 mm bore for 3/8"	967
WW-06-30-10	06-30	Zinc diecasting	Aluminium	iglidur® J200	100	54	Standard	959
WW-06-30-10-SL	06-30	Zinc diecasting	Aluminium	iglidur® J200	100	54	ø10 mm bore for 3/8"	967
WWC-06-30-06	06-30	Aluminium	-	iglidur® J	60	54	Monoslide, one-piece	960
WWC-06-30-08	06-30	Aluminium	-	iglidur® J	80	54	Monoslide, one-piece	960
WWC-06-30-10	06-30	Aluminium	-	iglidur® J	100	54	Monoslide, one-piece	960
WWC-10-40-10	10-40	Aluminium	-	iglidur® J	100	73	Monoslide, one-piece	959
WWC-10-40-15	10-40	Aluminium	-	iglidur® J	150	73	Monoslide, one-piece	959
WWC-10-40-20	10-40	Aluminium	-	iglidur® J	200	73	Monoslide, one-piece	959
WWC-10-80-10	10-80	Aluminium	-	iglidur® J	100	107	Monoslide, one-piece	959
WWC-10-80-15	10-80	Aluminium	-	iglidur® J	150	107	Monoslide, one-piece	959
WWC-10-80-20	10-80	Aluminium	-	iglidur® J	200	107	Monoslide, one-piece	959
WWC-10-120-10	10-120	Aluminium	-	iglidur® J	100	153	Monoslide, one-piece	960
WWC-10-120-15	10-120	Aluminium	-	iglidur® J	150	153	Monoslide, one-piece	960
WWC-10-120-20	10-120	Aluminium	-	iglidur® J	200	153	Monoslide, one-piece	960
WWC-16-60-10	16-60	Aluminium	-	iglidur® J	100	104	Monoslide, one-piece	959
WWC-16-60-15	16-60	Aluminium	-	iglidur® J	150	104	Monoslide, one-piece	959
WWC-16-60-20	16-60	Aluminium	-	iglidur® J	200	104	Monoslide, one-piece	959
WWC-20-80-15	20-80	Aluminium	-	iglidur® J	150	134	Monoslide, one-piece	960
WWC-20-80-20	20-80	Aluminium	-	iglidur® J	200	134	Monoslide, one-piece	960
WWC-20-80-25	20-80	Aluminium	-	iglidur® J	250	134	Monoslide, one-piece	960

	Aluminium Double Rails (Standard)						Aluminium-Special-Double-Rails		page
	WSQ-06-30	WSQ-10-40	WSQ-10-80	WSQ-10-120	WSQ-16-60	WSQ-20-80	Inch connections WS-06-30-SL	reduced weight WSQ-06-30-CAM	
Max. Length [mm]	3,000	4,000	4,000	4,000	4,000	4,000	1,000 / 1,500	500	
WW-06-30-06	●						●	●	959
WW-06-30-06-SL	●						●	●	967
WW-06-30-08	●						●	●	959
WW-06-30-08-SL	●						●	●	967
WW-06-30-10	●						●	●	959
WW-06-30-10-SL	●						●	●	967
WWC-06-30-06	●								960
WWC-06-30-08	●								960
WWC-06-30-10	●								960
WWC-10-40-10		●							959
WWC-10-40-15		●							959
WWC-10-40-20		●							959
WWC-10-80-10			●						959
WWC-10-80-15			●						959
WWC-10-80-20			●						959
WWC-10-120-10				●					960
WWC-10-120-15				●					960
WWC-10-120-20				●					960
WWC-16-60-10					●				959
WWC-16-60-15					●				959
WWC-16-60-20					●				959
WWC-20-80-15						●			960
WWC-20-80-20						●			960
WWC-20-80-25						●			960

Type	Carriage length [mm]	Carriage width [mm]	Coy [N]	Coz [N]	Mox [Nm]	Moy [Nm]	MoZ [Nm]
WW-06-30-06	60	54	1,680	840	25	34	34
WW-06-30-08	80	54	1,680	840	25	51	51
WW-06-30-10	100	54	1,680	840	25	68	68
WW-10-40-10	100	73	4,800	2,400	96	170	170
WW-10-40-15	150	73	4,800	2,400	96	290	290
WW-10-40-20	200	73	4,800	2,400	96	410	410
WW-10-80-10	100	107	4,800	2,400	178	170	170
WW-10-80-15	150	107	4,800	2,400	178	290	290
WW-10-80-20	200	107	4,800	2,400	178	410	410
WW-10-120-10	100	153	4,800	2,400	288	170	170
WW-10-120-15	150	153	4,800	2,400	288	290	290
WW-10-120-20	200	153	4,800	2,400	288	410	410
WW-16-60-10	100	104	8,400	4,200	240	270	270
WW-16-60-15	150	104	8,400	4,200	240	480	480
WW-16-60-20	200	104	8,400	4,200	240	690	690
WW-20-80-15	150	134	12,800	6,400	525	670	670
WW-20-80-20	200	134	12,800	6,400	525	990	990
WW-20-80-25	250	134	12,800	6,400	525	1,250	1,250

Table 01: Load capacities for complete carriage plates, each with 4 bearings and plate

	Size 6 [mm]	Size 10 [mm]	Size 16 [mm]	Size 20 [mm]	Size 25 [mm]
single rail, round		●	●	●	●
single rail, square	●	●	●	●	
double rail, round		●	●	●	●
double rail, square	●	●	●	●	
complete system	●	●	●	●	

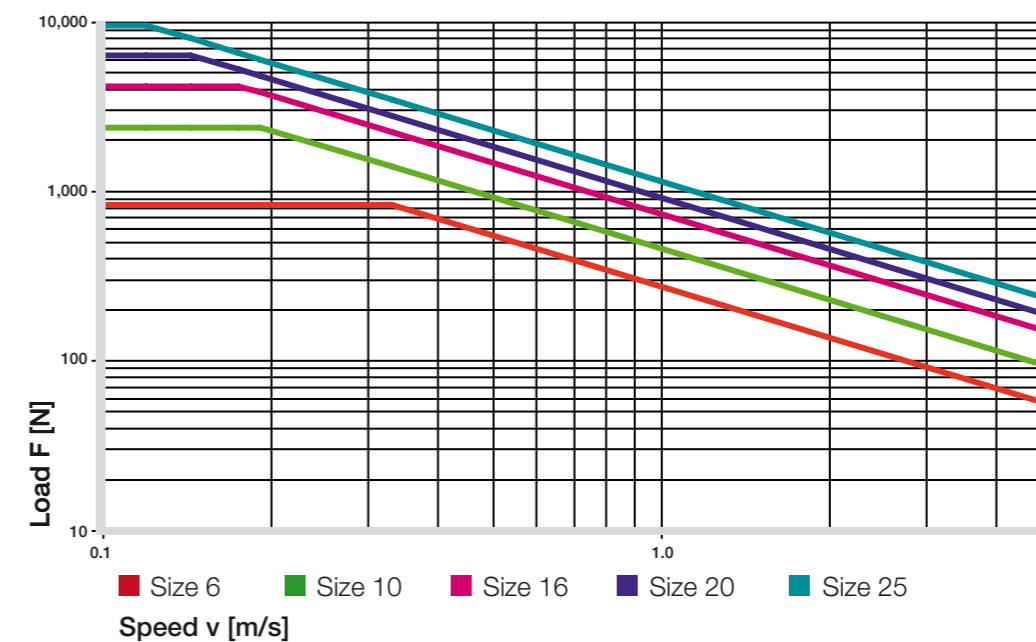
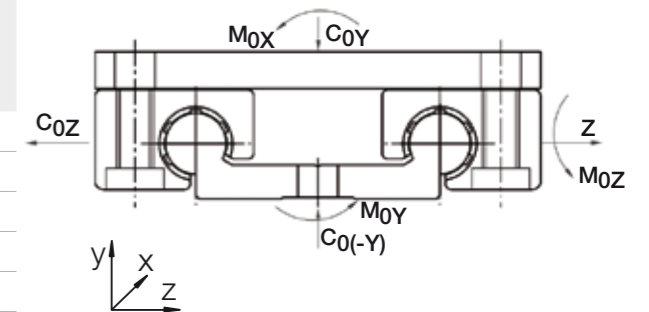


Diagram 01: Fv-Diagramm, maximum permissible dynamic loads (4 bearing system)



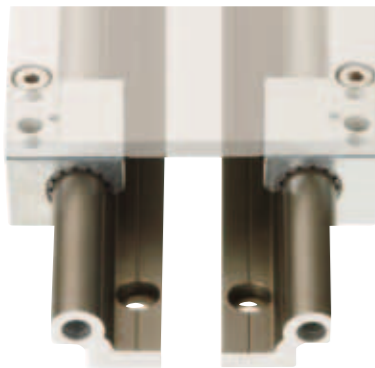
**Floating bearings for all directions ( $\pm 1$  mm) compensate misalignments and parallelism errors**

**Floating bearings facilitate assembly – only necessary for individual rails.**

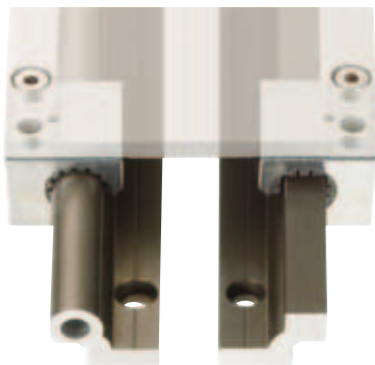
Assembly is easy with the drylin® WQ square profile. Floating bearings for all directions ( $\pm 1$  mm) compensate misalignments and parallelism errors between rails. This eliminates jamming, otherwise only prevented by time-consuming parallel alignment of the system. Although drylin® W is a profile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

### Possible combinations in mounted rail systems

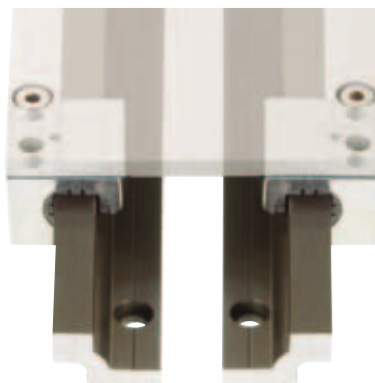
Fixed Floating



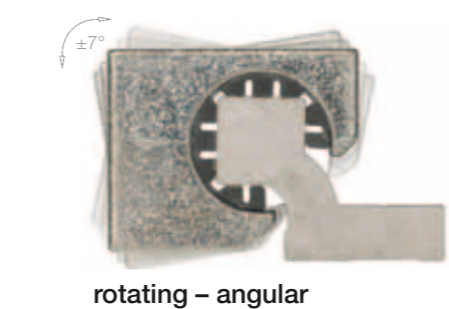
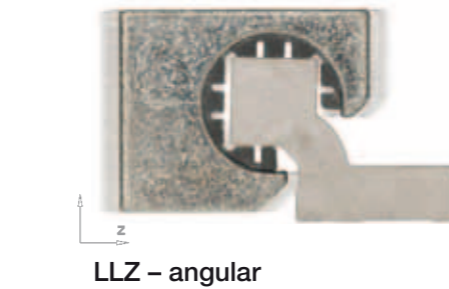
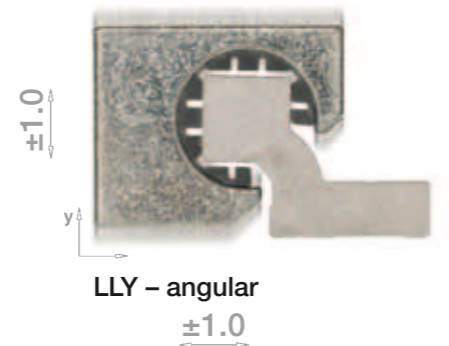
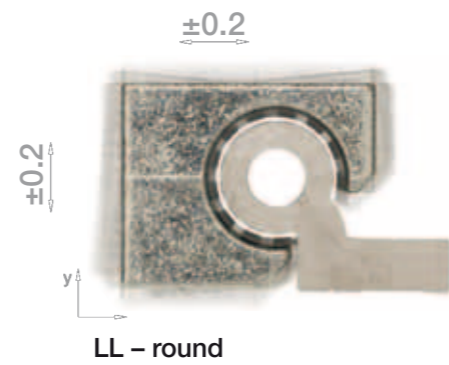
Fixed Floating



Fixed Floating



### Available floating bearing blocks



### Floating bearings for linear slide guides

In the case of a system with two rails, one side needs to be configured with floating bearings.

A suitable solution comprising fixed & floating bearings is available for every orientation, whether horizontal, vertical or lateral. This type of assembly prevents jamming and blockage on the guides resulting from discrepancies in parallelism. Floating bearings are created through a controlled extension of play in the direction of the expected parallelism error. This creates an additional degree of freedom on one side.

During assembly, it must be ensured that the floating bearings exhibit a similar degree of play in both directions. The contact surfaces on the guides and carriages should be sufficiently flat (for instance, machined) to prevent stresses from occurring in the system.

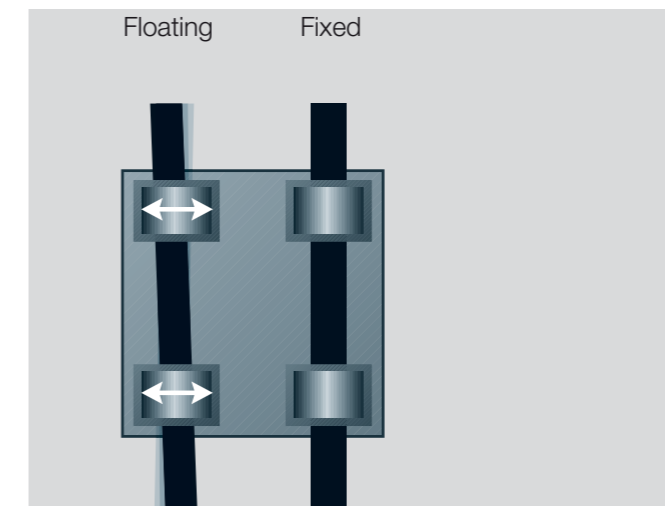


Diagram 02: Automatic compensation of parallelism errors

### Eccentric Forces

To ensure successful use of maintenance-free drylin® linear bearings, it is necessary to follow certain recommendations: If the distance between the driving force point and the fixed bearings is more than twice the bearing spacing (2:1 rule), a static friction value of 0.25 can theoretically result in seizure. This principle applies regardless of the value of the load or drive force.

The friction product is always related to the fixed bearings. The greater the distance between the drive and guide bearings, the higher the degree of wear and required drive force. Failure to observe the 2:1 rule during a use of linear slide bearings can result in uneven motion or even system blockage. Such situations can often be remedied with relatively simple modifications. If you have any questions on design and/or assembly, please contact our application engineers.

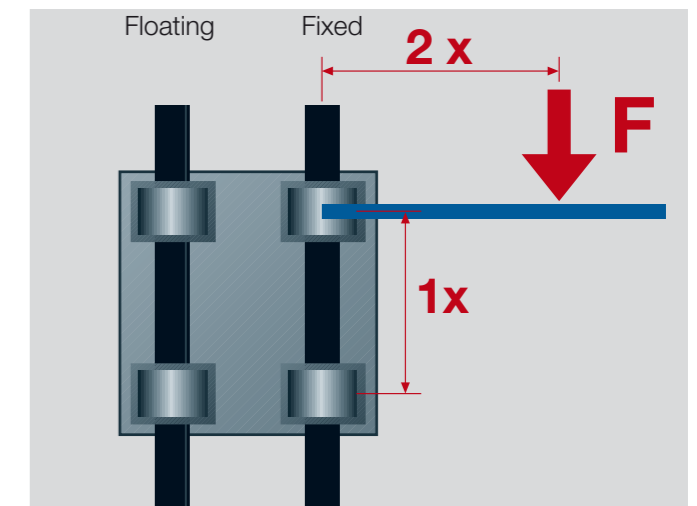
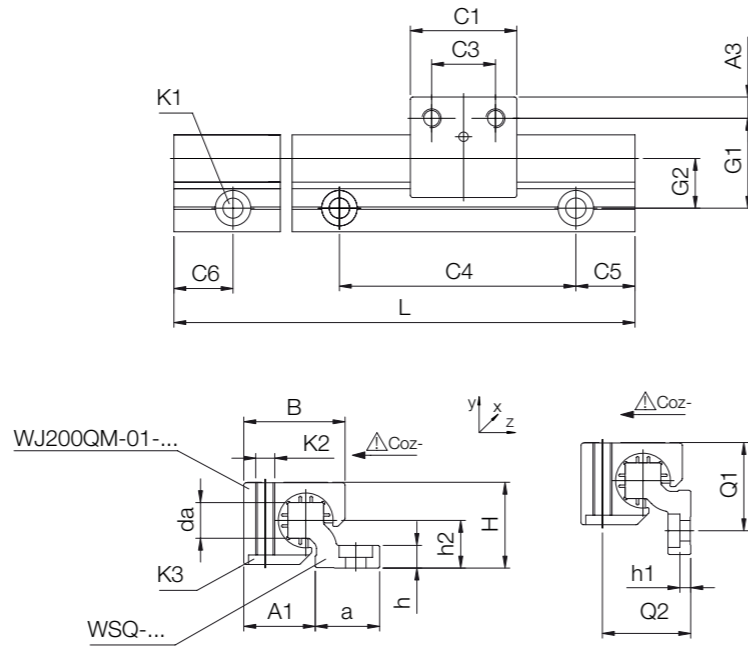
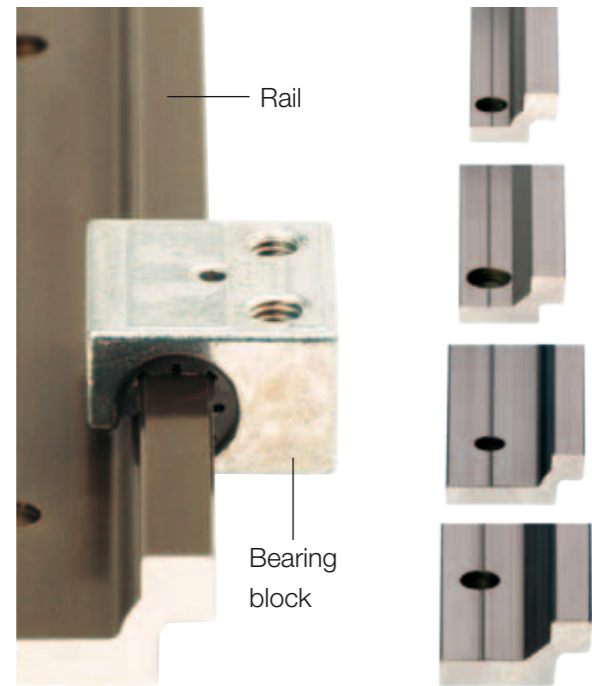


Diagram 03: The 2:1 Rule

## Single rail and housing bearing, square



**i** Hard anodised surface  
▶ page 892

### drylin® W Guide Rails, Square – Load Data and Dimensions [mm]

Part number	Weight [kg/m]	H* ±0.07	da -0.1	L max.	a	h	h1	h2	G1	G2	A1	Q1	Q2
WSQ-06	0.23	14	5	3,000	14	4	4**	7.5	18	10.5	13.5	17	15
WSQ-10	0.54	20	7.5	4,000	25	5.5	5.5**	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

Part number	C4	C5 min.	C5 max.	C6 min.	C6 max.	K1 for screw DIN 912	ly [mm²]	lz [mm²]	Wby [mm³]	Wbz [mm³]
WSQ-06	60	20	49.5	20	49.5	M4**	2,200	640	220	100
WSQ-10	120	20	79.5	20	79.5	M6**	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

Standard bore pattern symmetrical: C5 = C6; please order C5 ≠ C6 with drawing

\* Height dimension minus the bearing clearance tolerance

\*\* Through bore

Fits to housing bearing, square ▶ page 953

**delivery time** from stock

**prices** price list online  
www.igus.co.uk/en/drylinW

**order key** complete ▶ page 972

## Single rail and housing bearing, square



**i** All parts can be ordered individually or as an assembled system

### drylin® W Housing Bearings, Square – Load Data and Dimensions [mm]

Part number	Floating bearing play	Floating bearing direction	Weight [g]	B	C1	C3	A3	K2	K3	Stat. Load Capac.		
										Co <sub>y</sub> [N]	Co <sub>z+</sub> [N]	Co <sub>z-</sub> [N]
WJ200QM-01-06	-	-	16	18	19	10	4.5	M4	M3	420	420	140
WJ200QM-01-06-LLZ	± 0.5	z	16	18	19	10	4.5	M4	M3	420	420	140
WJ200QM-01-06-LLY	± 0.5	y	16	18	19	10	4.5	M4	M3	420	420	140
WJ200QM-01-10	-	-	41	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200QM-01-10-LLZ	± 0.7	z	41	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200QM-01-10-LLY	± 0.7	y	41	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200QM-01-16	-	-	100	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200QM-01-16-LLZ	± 1.0	z	100	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200QM-01-16-LLY	± 1.0	y	100	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200QM-01-20	-	-	190	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200QM-01-20-LLZ	± 1.0	z	190	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200QM-01-20-LLY	± 1.0	y	190	42.5	45	27	9	M8	M6	3,200	3,200	500

Order example: WJ200QM-01-06 for a housing bearing, square

WJ200QM-01-06-LLZ for a housing bearing, square with floating z-direction

Fits to single rail, square ▶ page 952

double rail, square ▶ page 958

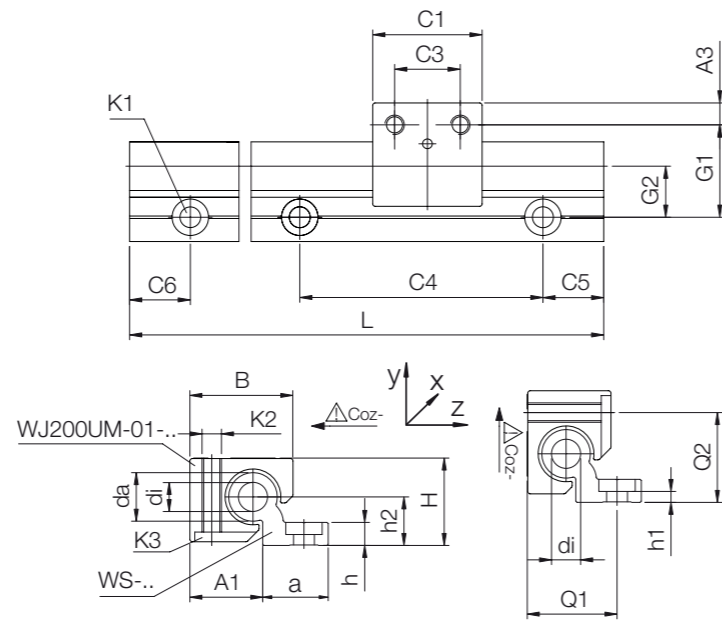
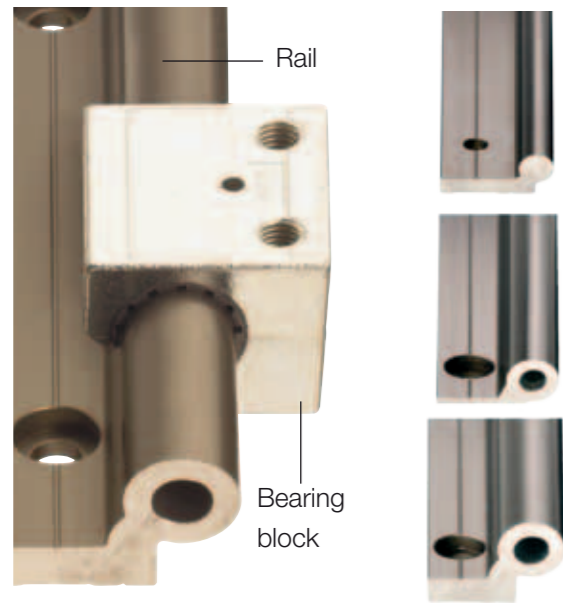
**delivery time** from stock

**prices** price list online  
www.igus.co.uk/en/drylinW

**order key** complete ▶ page 972



## Single rail and housing bearing, round



This assembled position not possible for WS-10

**i** Hard anodised surface  
▶ page 892

## drylin® W Guide Rails, Round – Load Data and Dimensions [mm]

Part number	Weight [kg/m]	H* ±0.07	da -0.1	di max.	L	a	h	h1	h2	G1	G2	A1	Q1	Q2
WS-10	0.62	18	10	-	4,000	27	5.5	5.5**	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 <b>New!</b>	2.03	45	25	14	4,000	32	11.5	5.5	25	46.5	25.5	37.5	45.5	46

Part number	C4	C5 min.	C5 max.	C6 min.	C6 max.	K1 for screw DIN 912	ly [mm²]	lz [mm²]	Wby [mm²]	Wbz [mm²]
WS-10	120	20	79.5	20	79.5	M6**	19,000	2,850	1,000	310
WS-16	120	20	79.5	20	79.5	M8	36,000	12,900	1,800	940
WS-20	120	20	79.5	20	79.5	M8	57,100	35,000	2,700	1,900
WS-25 <b>New!</b>	150	25	99.5	25	99.5	M10	129,000	86,000	4,900	3,800

Standard bore pattern symmetrical: C5 = C6; please order C5 ≠ C6 with drawing

\* Height dimension minus the bearing clearance tolerance

\*\* Through bore-hole

Fits to Housing bearing, round ▶ page 955  
Hybrid Bearing ▶ page 956

**delivery** from stock  
**time**

**prices** price list online  
www.igus.co.uk/en/drylinW

**order key** complete ▶ page 972

## Single rail and housing bearing, round



**i** All parts can be ordered individually or as an assembled system

## drylin® W Housing Bearing, Round – Load Data and Dimensions [mm]

Part number	Floating bearing play	Floating-bearing direction	Weight [g]	B	C1	C3	A3	K2	K3	Stat. Coy [N]	Load Capacity Coz+ [N]	Coz- [N]
WJ200UM-01-10	-	-	41	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200UM-01-10-LL	±0.2	-	41	26	29	16	6.5	M6	M5	1,200	1,200	250
WJ200UM-01-16	-	-	100	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200UM-01-16-LL	±0.2	-	100	34.5	36	18	9	M8	M6	2,100	2,100	400
WJ200UM-01-20	-	-	190	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200UM-01-20-LL	±0.25	-	190	42.5	45	27	9	M8	M6	3,200	3,200	500
WJ200UM-01-25	-	-	425	52.5	58	36	11	M10	M8	4,800	4,800	950

Order example: WJ200UM-01-10 for a housing bearing, round  
WJ200UM-01-10-LL for a housing bearing, round with floating z-direction



- Manual adjustable clearance by "Turn-To-Fit" function
- Adjusting screw: max. torque 0.1 Nm
- 100% lubrication-free
- Compact dimensions
- 8 different rail profiles available

## drylin® W Linear Guides with "Turn-to-Fit" – Dimensions [mm]

Part number	Weight [g]	B	C1	C3	A3	K2	H	SW	G1	Stat. Coy [N]	Load Capacity Coz+ [N]	Coz- [N]
WJUME-01-10	43	26	29	16	6.5	M6	18	1.5	27	560	560	250
WJ200UME-01-16	110	34.5	36	18	9	M8	27	2.5	33	980	980	460
WJ200UME-01-20	222	42.5	45	27	9	M8	36	2.5	38	1,500	1,500	500

Fits to single rail, round ▶ page 954  
double rail, round ▶ page 962

**delivery** from stock  
**time**

**prices** price list online  
www.igus.co.uk/en/drylinW

**order key** complete ▶ page 972

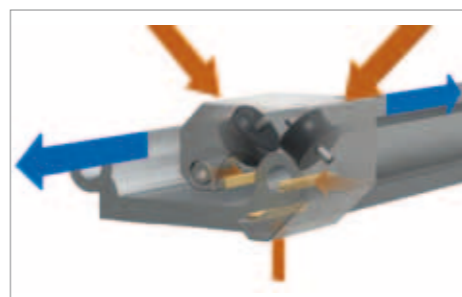
## Hybrid linear bearing – roll and slide

drylin® W hybrid bearings offer a unique combination of plain and roller bearings. When used in the correct orientation, the driving force requirements are significantly reduced by the maintenance free roller. The shear forces and any shock loads are supported by the plain self lubricating liner. The drylin® hybrid bearing is ideal for applications which involve manual drive, such as in a machine guard door. The new drylin® W hybrid bearing housing WJRM-21-20 with 2 diagonally applied plastic rollers is ideal for the adjustment of control panels or camera carriage. The adjustment to the coated drylin® W profile rails are done completely without lubrication and maintenance.

- Solid tribo-polymer rollers
- Liner made of iglidur® J
- Low drive force needed, friction: 0.04–0.05  $\mu$
- Cost-effective
- Can be combined with 8 linear profile rails



strength absorption hybrid bearing



strength absorption hybrid double roller bearing

## drylin® W Compatible Guide Rails – Dimensions [mm]

Part number	Weight [g]	H	da	L	a	h	h2	G1	G2	C4	C5		C6		K1 for screw DIN 912
											min.	max.	min.	max.	
WS-10	0.62	18	10	4,000	27	5.5	9	27	17	120	20	79.5	20	79.5	M6
WS-16	0.98	27	16	4,000	27	7.5	14	33	19	120	20	79.5	20	79.5	M8
WS-20	1.32	36	20	4,000	27	9.5	20	38	21	120	20	79.5	20	79.5	M8
WS-10-40	1.00	18	10	4,000	40	5.5	9	30	20	120	20	79.5	20	79.5	M6
WS-10-80	1.50	18	10	4,000	74	5.5	9	27	17	120	20	79.5	20	79.5	M6
WS-10-120	2.02	18	10	4,000	120	5.5	9	30	20	120	20	79.5	20	79.5	M6
WS-16-60	1.96	27	16	4,000	54	7.5	14	43	29	120	20	79.5	20	79.5	M8
WS-20-80	3.38	36	20	4,000	74	9.5	20	38	21	120	20	79.5	20	79.5	M8



Adjustment camera slider ► [www.igus.co.uk/camera](http://www.igus.co.uk/camera)



Adjustment of control panel unit



delivery from stock  
time



prices price list online

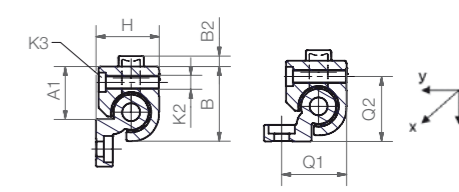
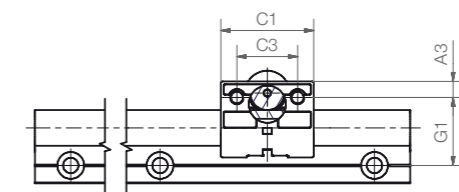
[www.igus.co.uk/en/drylinW](http://www.igus.co.uk/en/drylinW)



order key

complete ► page 972

## Hybrid linear bearing



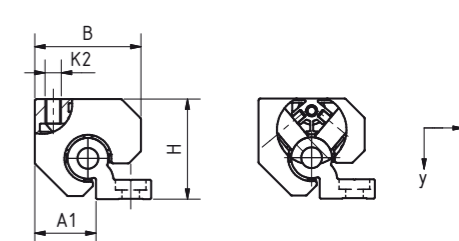
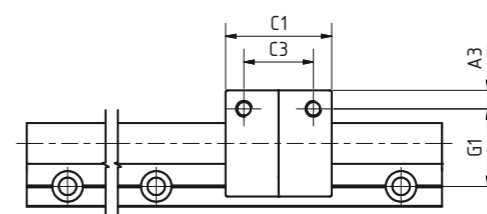
This orientation is not possible for combination of WJRM-01-10 with rail WS-10/WS-10-40/WS-10-80/WS-10-120

## Load Data and Dimensions [mm]

Part number	Stat. load capacity Co [N]	Dyn. load capacity Cz+ at total running distance (km)			F · v max. [N · m/s]
		10 [N]	100 [N]	200 [N]	
WJRM-01-10	250	250	90	50	50
WJRM-01-16	400	400	140	70	80
WJRM-01-20	550	550	200	100	80

Part number	Friction in z-direction [ $\mu$ ]	Weight [g]	A1	A3	B	B2	C1	C3	G1	H	K2 for Thread	K3 for Screw	Q1	Q2
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

## drylin® W hybrid double roller bearing

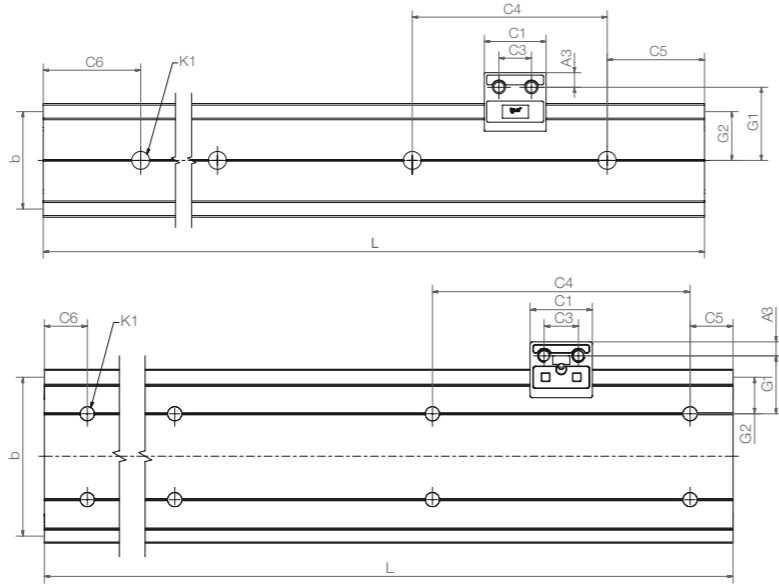


## Load Data and Dimensions [mm]

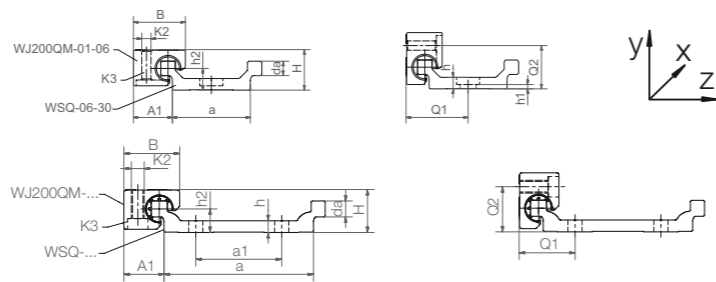
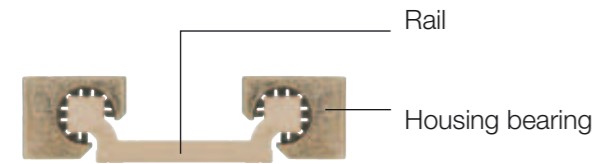
Part number	Stat. load capacity Co [N]	Dyn. load capacity Cz+ at total running distance (km)			F · v max. [N · m/s]
		10 [N]	100 [N]	200 [N]	
WJRM-21-20 <b>New!</b>	840	840	300	150	80

Part number	Friction in z-direction [ $\mu$ ]	Weight [g]	A1	A3	B	C1	C3	G1	H	K2 for Screw

## Double rail, square



**i** Hard anodised surface  
▶ page 892



## drylin® W Guide Rails – Dimensions [mm]

Part number	Weight	H*	da	L	a	A1	b	h	h1	h2	G1	G2	a1**	Q1	Q2
	[kg/m]	±0.07	-0.1	max.											
WSQ-06-30	0.45	14	5	3,000	27-0.4	13.5	30	4	4***	7.5	22.5	15	-	21.5	15
WSQ-10-40	0.92	20	7.5	4,000	36-0.5	18.5	40	5.5	5.5***	11	30	20	-	29	21
WSQ-10-80	1.41	20	7.5	4,000	70-0.7	25.0	74	5.5	5.5***	11	27	17	40	26	21
WSQ-10-120 <b>New!</b>	2.02	20	7.5	4,000	116-0.7	18.5	120	5.5	5.5***	11	30	20	80	29	21
WSQ-16-60	1.84	27	11.5	4,000	54-0.5	30.0	58	7.5	3.5	14	43	29	-	42	28
WSQ-20-80 <b>New!</b>	3.30	36	15	4,000	74-0.7	30	82	9.5	4.5	20	38	21	40	37	37

Part number	C4		C5		C6		K1 for Screw	ly	lz	Wby	Wbz
	min.	max.	min.	max.	min.	max.					
WSQ-06-30	60	20	49.5	20	49.5	M5***	19,000	1,250	1,100	200	
WSQ-10-40	120	20	79.5	20	79.5	M6***	71,600	5,580	3,000	610	
WSQ-10-80	120	20	79.5	20	79.5	M6***	335,000	7,070	8,300	700	
WSQ-10-120 <b>New!</b>	120	20	79.5	20	79.5	M6***	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 <b>New!</b>	120	20	79.5	20	79.5	M8	1,145,000	75,300	23,600	4,500	

\* Height dimension minus the bearing clearance tolerance

\*\* WSQ-06-30/10-40/16-60 a single row of mounting holes down the centreline, WSQ-10-80/-10-120/-20-80 two parallel rows of mounting holes

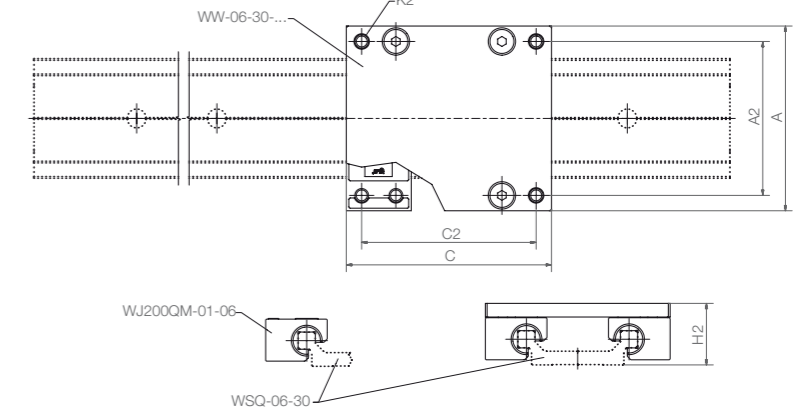
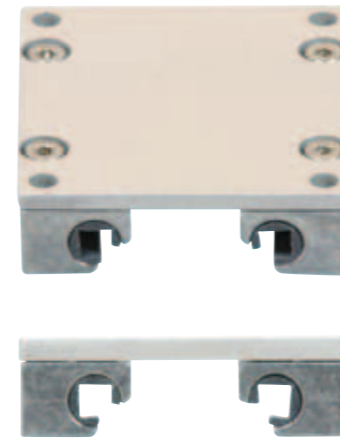
\*\*\* Through bore

**delivery** from stock  
**time**

**prices** price list online  
www.igus.co.uk/en/drylinW

**order key** complete ▶ page 972

## Guide carriage, fitted, square



## drylin® W Guide Carriage, Fitted – Load Data and Dimensions [mm]

Part number	Part number Suitable Rail	Weight [kg]	A Width	C Length	A2	C2	K2	H2 ±0.17	Stat. Load Capacity				
									Coy [N]	Coz [N]	Mox [Nm]	Moy [Nm]	Moz [Nm]
WW-06-30-06	WSQ-06-30	0.10	54	60	45	51	M4	18	1,680	840	25	34	34
WW-06-30-08	WSQ-06-30	0.11	54	80	45	71	M4	18	1,680	840	25	51	51
WW-06-30-10	WSQ-06-30	0.12	54	100	45	91	M4	18	1,680	840	25	68	68

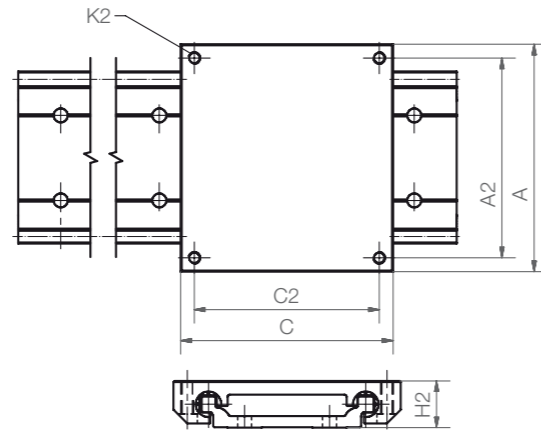
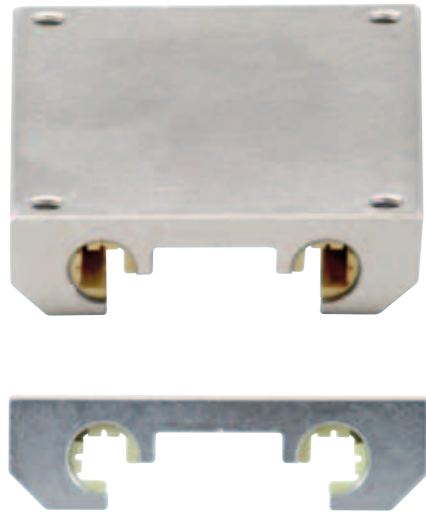
Fits to double rail, square ▶ page 958

**delivery** from stock  
**time**

**prices** price list online  
www.igus.co.uk/en/drylinW


**order key** complete ▶ page 972

## drylin® W Mono-Slide Guide Carriage




### Load Data and Dimensions [mm]

Part number	Weight [kg]	A Width	C Length	A2	C2	K2	H2 ±0.17	Stat. Load Capacity				
								Co <sub>y</sub> [N]	Co <sub>z</sub> [N]	Mo <sub>x</sub> [Nm]	Mo <sub>y</sub> [Nm]	Mo <sub>z</sub> [Nm]
WWC-06-30-06 <b>New!</b>	0.07	54	60	45	51	M4	16	1,680	840	25	34	34
WWC-06-30-08 <b>New!</b>	0,09	54	80	45	71	M4	16	1,680	840	25	51	51
WWC-06-30-10 <b>New!</b>	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 <b>New!</b>	0.36	153	100	140	87	M6	22	4,800	2,400	288	170	170
WWC-10-120-15 <b>New!</b>	0.54	153	150	140	137	M6	22	4,800	2,400	288	290	290
WWC-10-120-20 <b>New!</b>	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 <b>New!</b>	0.99	134	150	116	132	M8	40	12,800	6,400	525	670	670
WWC-20-80-20 <b>New!</b>	1.33	134	200	116	182	M8	40	12,800	6,400	525	990	990
WWC-20-80-25 <b>New!</b>	1.66	134	250	116	232	M8	40	12,800	6,400	525	1,250	1,250

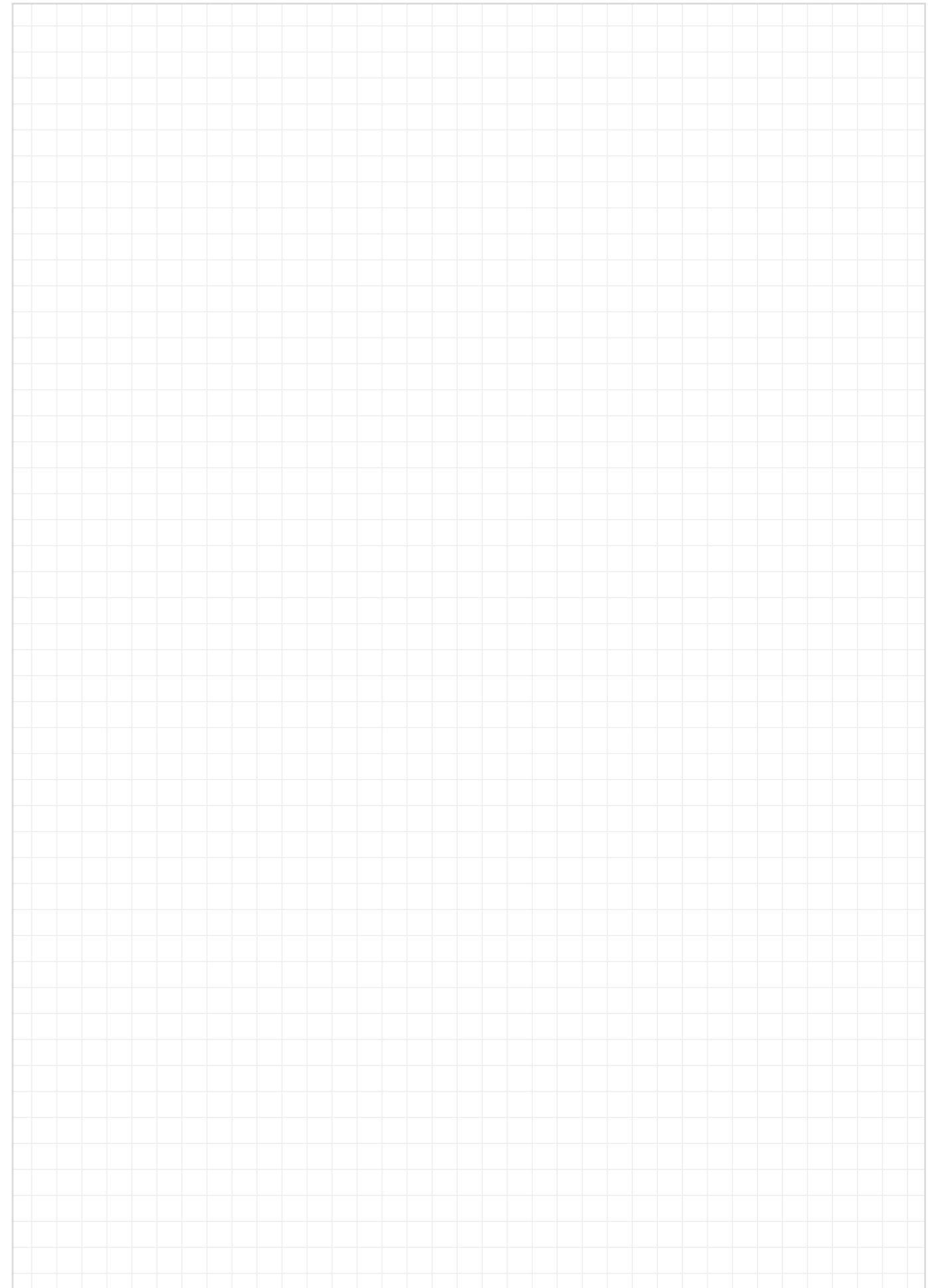
Fits to double rail, square  ► page 958

 **delivery** from stock  
time

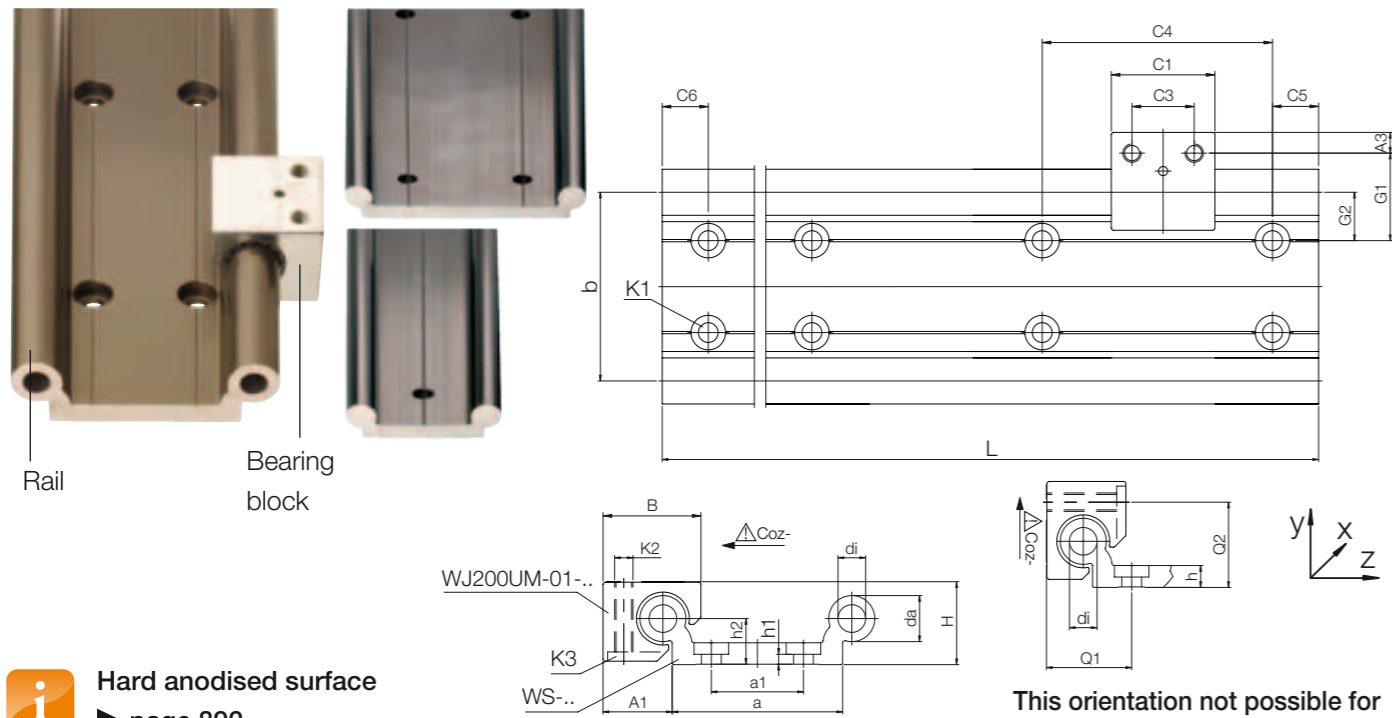
 **prices** price list online  
[www.igus.co.uk/en/drylinW](http://www.igus.co.uk/en/drylinW)

 **order key**  
complete ► page 972

## My Sketches



## Double rail, round



**i** Hard anodised surface  
▶ page 892

## drylin® W Guide Rails – Dimensions [mm]

Part number	Weight [kg/m]	H* ±0.07	da	di	L max.	a	A1	b	h	h1	h2	G1	G2	a1**	Q1	Q2
WS-10-40	1.00	18	10-0.1	-	4,000	40-0.5	16.5	40	5.5	5.5***	9	30	20	-	-	-
WS-10-80	1.50	18	10-0.1	-	4,000	74-0.7	16.5	74	5.5	5.5***	9	27	17	40	-	-
WS-10-120 <b>New!</b>	2.02	18	10-0.1	-	4,000	120-0.7	16.5	120	5.5	5.5***	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

\* Height dimension minus the bearing clearance tolerance

\*\* WS-10-40 and WS-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 number	C4	C5 min.	C5 max.	C6 min.	C6 max.	K1 for Screw DIN 912	ly [mm²]	lz [mm²]	Wby [mm³]	Wbz [mm³]
WS-10-40	120	20	79.5	20	79.5	M6***	91,000	5,100	3,600	590
WS-10-80	120	20	79.5	20	79.5	M6***	388,000	6,100	9,200	650
WS-10-120 <b>New!</b>	120	20	79.5	20	79.5	M6***	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

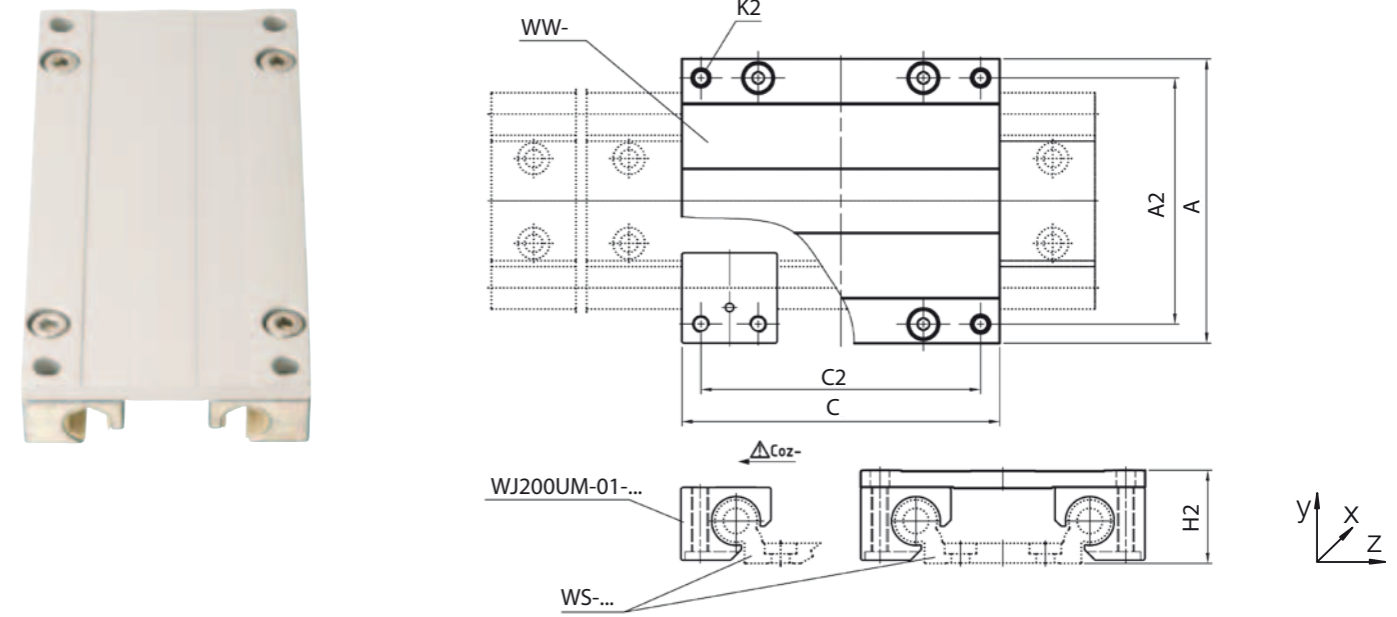
Standard bore pattern symmetrical: C5 = C6; please order C5 ≠ C6 with drawing

\*\*\* Through bore

Fits to housing bearing, round ▶ page 955

double carriage, round ▶ page 963

## Guide carriage, fitted, round

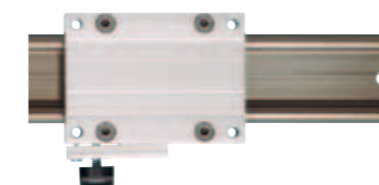


## drylin® W Guide Carriage, Fitted – Load Data and Dimensions [mm]

Part number	Part number Suitable	Weight [kg]	A Width	C Length	A2	C2	K2	H2 ±0.17	Coy [N]	Coz [N]	Mox [Nm]	Moy [Nm]	Moz [Nm]
WW-10-40-10*	WS-10-40	0.29	73	100	60	87	M6	24	4,800	2,400	96	170	170
WW-10-40-15*	WS-10-40	0.34	73	150	60	137	M6	24	4,800	2,400	96	290	290
WW-10-40-20*	WS-10-40	0.40	73	200	60	187	M6	24	4,800	2,400	96	410	410
WW-10-80-10*	WS-10-80	0.34	107	100	94	87	M6	24	4,800	2,400	178	170	170
WW-10-80-15*	WS-10-80	0.42	107	150	94	137	M6	24	4,800	2,400	178	290	290
WW-10-80-20*	WS-10-80	0.50	107	200	94	187	M6	24	4,800	2,400	178	410	410
WW-10-120-10 <b>New!</b>	WS-10-120	0.41	153	100	140	87	M6	24	4,800	2,400	288	170	170
WW-10-120-15 <b>New!</b>	WS-10-120	0.54	153	150	140	137	M6	24	4,800	2,400	288	290	290
WW-10-120-20 <b>New!</b>	WS-10-120	0.66	153	200	140	187	M6	24	4,800	2,400	288	410	410
WW-16-60-10	WS-16-60	0.71	104	100	86	82	M8	35	8,400	4,200	240	270	270
WW-16-60-15*	WS-16-60	0.84	104	150	86	132	M8	35	8,400	4,200	240	480	480
WW-16-60-20*	WS-16-60	0.97	104	200	86	182	M8	35	8,400	4,200	240	690	690
WW-20-80-15*	WS-20-80	1.20	134	150	116	132	M8	44	12,800	6,400	525	670	670
WW-20-80-20*	WS-20-80	1.30	134	200	116	182	M8	44	12,800	6,400	525	990	990
WW-20-80-25*	WS-20-80	1.50	134	250	116	232	M8	44	12,800	6,400	525	1,250	1,250
WW-25-120-15	WS-25-120	2.54	195	150	173	128	M10	55	19,200	9,600	1,250	880	880
WW-25-120-20	WS-25-120	2.80	195	200	173	178	M10	55	19,200	9,600	1,250	1,360	1,360
WW-25-120-25	WS-25-120	3.07	195	250	173	228	M10	55	19,200	9,600	1,250	1,840	1,840

Also available as version with adjustable clearance in installation sizes 10, 16 and 20:

Order example, WWE-10-40-15



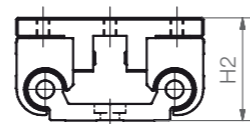
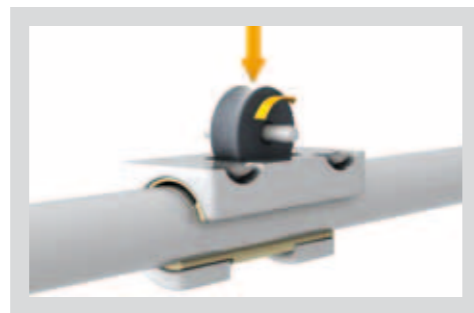
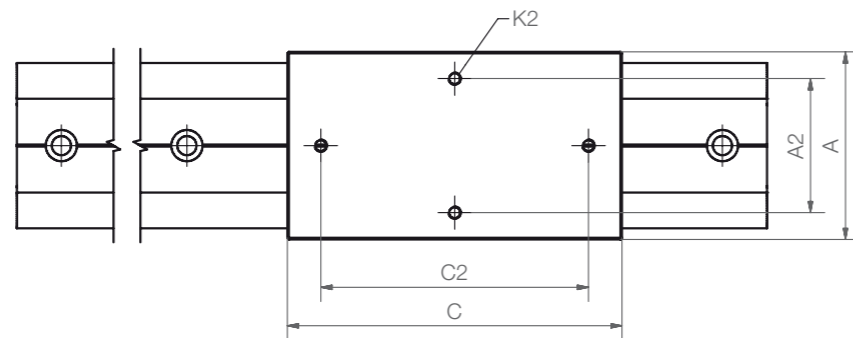
\* drylin® W manual clamp, assembled (optional) suffix -HKA  
▶ page 968

Fits to double rail round ▶ page 962

## Hybrid carriage with rollers – now also for horizontal assemblies

Now roll and glide as a complete system on drylin® W double rails. Compact aluminium carriage with 4 hybrid bearings for easy and low-noise operation. The service performance of the carriage depends on the load. It is max. 1,000 km. When the wear limit of the rollers is reached, the system changes into sliding mode, which in turn leads to a higher drive force requirement.

- Lubrication-free
- Low displacement forces
- Quiet and light weight



### drylin® W hybrid carriage – Dimensions [mm]

Part number	Weight [kg]	A	C	A2	C2	K2	H2 ±0.17	Stat. load capacity				
								Coy [N]	Coz [N]	Mox [Nm]	Moy [Nm]	Moz [Nm]
<b>WWH-10-40-10</b> <span style="color: orange;">New!</span>	0.35	58	100	40	80	M5	34	1,000	1,000	20	16	32
<b>WWH-16-60-15</b>	0.96	84	150	60	120	M6	46	1,600	1,600	45	38	77

fitting rails ► page 962

**delivery** from stock  
time

**prices** price list online  
[www.igus.co.uk/en/drylinW](http://www.igus.co.uk/en/drylinW)

**order key** complete ► page 972

Different industries call for different solutions. Whether for mechanical engineering, for machine tools, for medical technology, furniture design, the packaging industry, and in many other sectors – with the drylin® W design-kit, and others, igus® provides customised support for special applications.

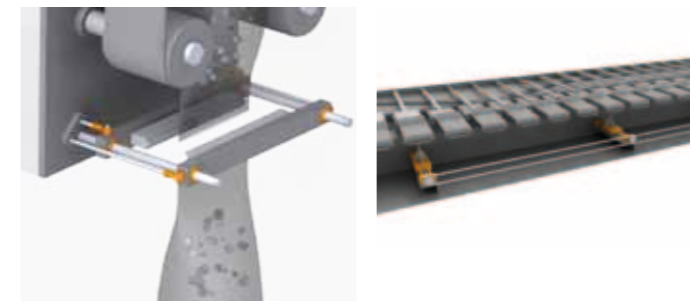
[www.igus.co.uk/industry](http://www.igus.co.uk/industry)



### Medical technology

Many medical applications, such as diagnostics, laboratory technology or physiotherapy, use lubrication-free drylin® W linear guides. Totally clean guides, very quiet motion, very rigid and torsionally stiff aluminium profiles and solutions for the smallest installation spaces - drylin® W provides an ideal linear design-kit for all of these.

► [www.igus.co.uk/medical](http://www.igus.co.uk/medical)



### Packaging industry

Applications in these fields are very specific and must frequently meet special requirements. The drylin® W design-kit provides a solution for every application. Insensitivity to dirt, corrosion resistance and easy cleaning are only some of the issues that play a role in increasing the service life of your application, while also reducing downtimes and costs.

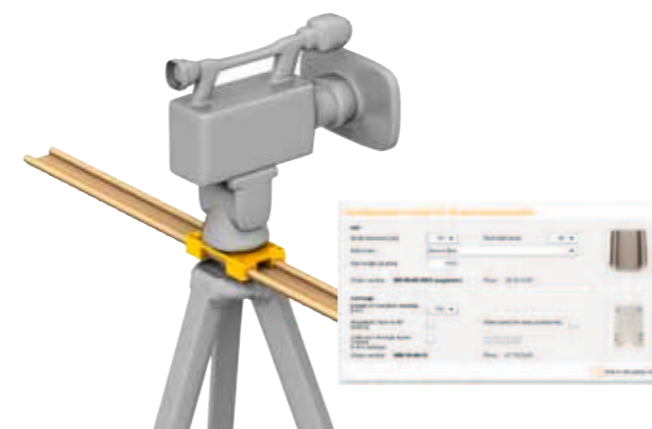
► [www.igus-packaging.com](http://www.igus-packaging.com)



### Furniture design

Contamination risks of fabrics, leather or wood components are avoided by omitting lubricants - weight savings by using plastics and aluminium - very quiet operation, and also very tough – the drylin® W design-kit is ideally suited for furniture applications, such as desk and drawer slides and backrest adjustments for sofas and chairs.

► [www.igus.co.uk/design](http://www.igus.co.uk/design)

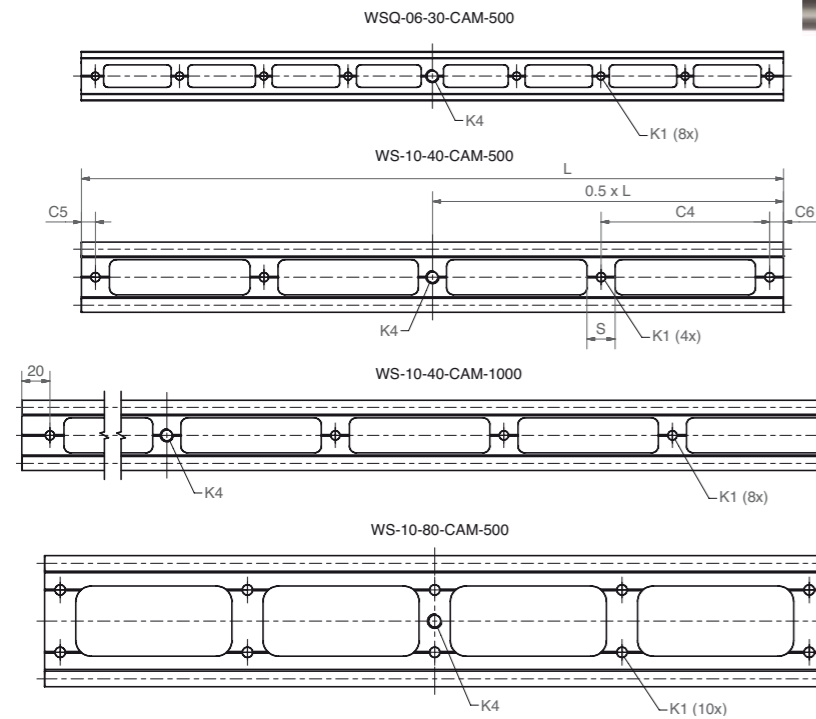


### Audio-visual equipment

The drylin linear bearings provide many options for designers in the audio-visual industry, where low noise and smooth operation are both equally essential. The low weight of drylin W linear guides also help to make audio-visual systems easy to transport.

► [www.igus.co.uk/camera](http://www.igus.co.uk/camera)

## Double rail, reduced weight



- 30% weight reduction by machined recesses
- Sizes: 0630, 1040 und 1080
- Lubrication free, quiet and light
- Standard lengths from stock
- Matching housing bearing and carriage made of plastic, aluminium, zinc die cast or stainless steel

## drylin® W Guide Rail – Dimensions [mm]

Part number	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*	159
WS-10-40-CAM-500	WS-10-40	500	120	10	10	20	M6	3/8" 16-UNC*	353
WS-10-40-CAM-1000	WS-10-40	1,000	120	20	20	20	M6	3/8" 16-UNC*	706
WS-10-80-CAM-500	WS-10-80	500	120	10	10	20	M6	3/8" 16-UNC*	482

\* UNC = Unified National Coarse, imperial standard for screws and threads



Application example: Camera slider with standard rail and carriage

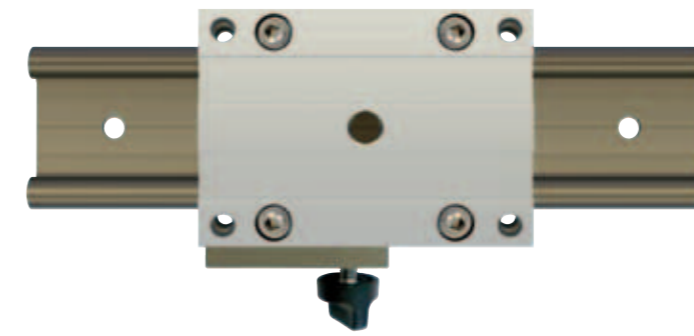
► [www.igus.co.uk/camera](http://www.igus.co.uk/camera)

**delivery** from stock **time**

**prices** price list online [www.igus.co.uk/en/drylinW](http://www.igus.co.uk/en/drylinW)

**order key** complete ► page 972

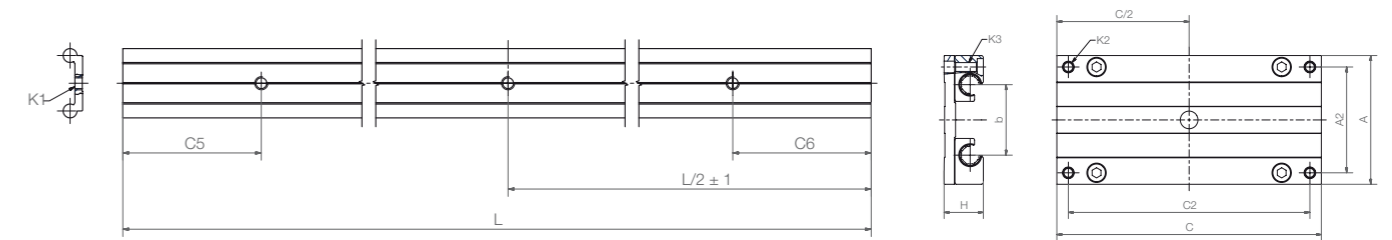
## Slider-Rail



- Wear-resistant, smooth and quiet motion
- Adjustable clearance by the turn-to-fit function
- Lubrication-free
- Easy and fast assembly
- Other dimensions as standard rails WSQ ► page 958 and WS ► page 962

### Technical Options:

- Adjustable housing bearing
- Manual clamp (WW...-HKA ► page 968)



## drylin® W Special rails with 3 holes, 3/8" thread

### Dimensions [mm]

Part number	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-10-40-SL-1000	10	1,000	100	100	1.00
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 ø10 mm through hole for 3/8" thread

### Dimensions [mm]

Part number	Size	C	A	Part number	Size	C	A
WW-06-30-06-SL	06	60	54	WW-16-60-10-SL**	16	100	104
WW-06-30-08-SL	06	80	54	WW-16-60-15-SL***	16	150	104
WW-06-30-10-SL	06	100	54	WW-16-60-20-SL***	16	200	104
WW-10-40-10-SL***	10	100	73	WW-20-80-15-SL***	20	150	134
WW-10-40-15-SL***	10	150	73	WW-20-80-20-SL***	20	200	134
WW-10-40-20-SL***	10	200	73	WW-20-80-25-SL***	20	250	134
WW-10-80-10-SL***	10	100	107				
WW-10-80-15-SL***	10	150	107				
WW-10-80-20-SL***	10	200	107				

\* optional with integrated manual clamp (add suffix "-HKA")

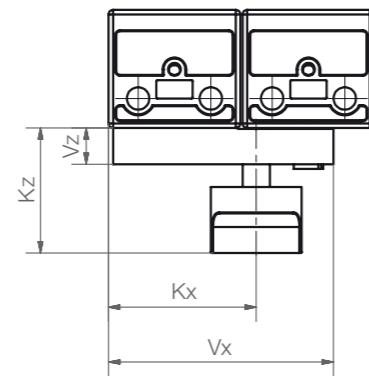
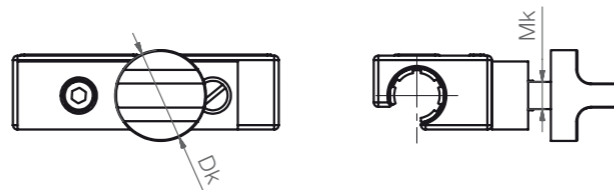
\*\* optional with adjustable "Turn-To-Fit" bearing (Order example: WWE-...)

## Accessories: manual clamp



### drylin® W manual clamping, for simple positioning tasks

- Cost-efficient option
- Universal applications
- Clamping force based on tightening torque
- Clamping by friction lock



### drylin® W Accessories – Load Data and Dimensions [mm]

Part number	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding strength**	Min. tightening torque
WHKA-10*	M6	50	33	8	28	20	30 N	0.8 Nm
WHKA-16*	M8	72	32	10	31	26	60 N	1.5 Nm
WHKA-20*	M8	90	29	10	31	26	70 N	1.5 Nm

\* Manual clamp is also available as complete carriage (suffix HKA, order example WW-10-40-10-HKA)

► complete carriage WW, page 963

\*\* Condition: dry rail surface

#### Hint:

The creep behavior of the clamped plastic causes a reduction in clamping force over time (up to 70 %). Therefore safety-related parts should not be clamped.

**delivery** from stock  
time

**prices** price list online  
www.igus.co.uk/en/drylinW

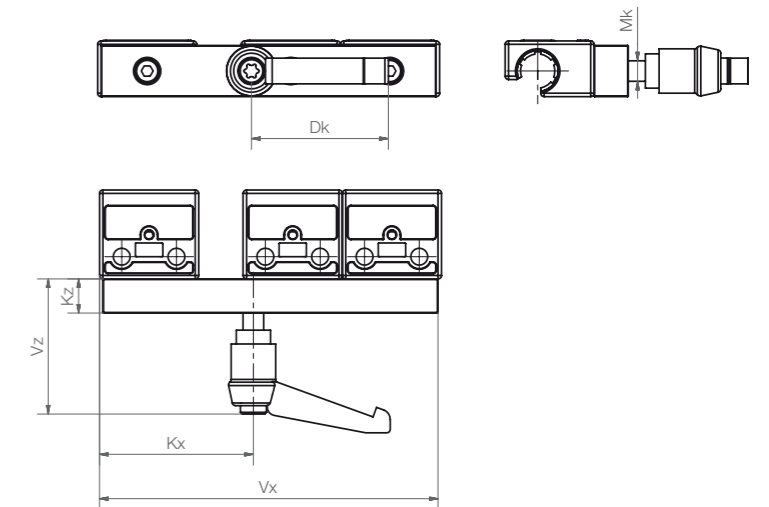
**order key**  
complete ► page 972

## Accessories: manual clamp



### drylin® W manual clamp for high holding strength

- Available as single-part or assembled to guide carriage
- Clamping force based on tightening torque
- Clamping by friction lock



### drylin® W Accessories – Load Data and Dimensions [mm]

Part number	Mk	Vx	Kx	Vz	Kz	Dk	Min. holding strength**	Min. tightening torque
WHKD-1010*	M6	100	45	40	10	40	70 N	2.5 Nm
WHKD-1015*	M6	150	95	40	10	40	70 N	2.5 Nm
WHKD-1615*	M8	150	81	40	12	40	90 N	3.5 Nm
WHKD-1620*	M8	200	131	10	12	40	90 N	3.5 Nm
WHKD-2015*	M8	150	63	40	12	40	90 N	3.5 Nm
WHKD-2020*	M8	200	113	40	12	40	90 N	3.5 Nm

\* Manual clamp is also available as complete carriage (suffix HKD, order example WW-10-40-10-HKD)

► complete carriage WW, page 963

\*\* Condition: dry rail surface

#### Hint:

The creep behavior of the clamped plastic causes a reduction in clamping force over time (up to 70 %). Therefore safety-related parts should not be clamped.

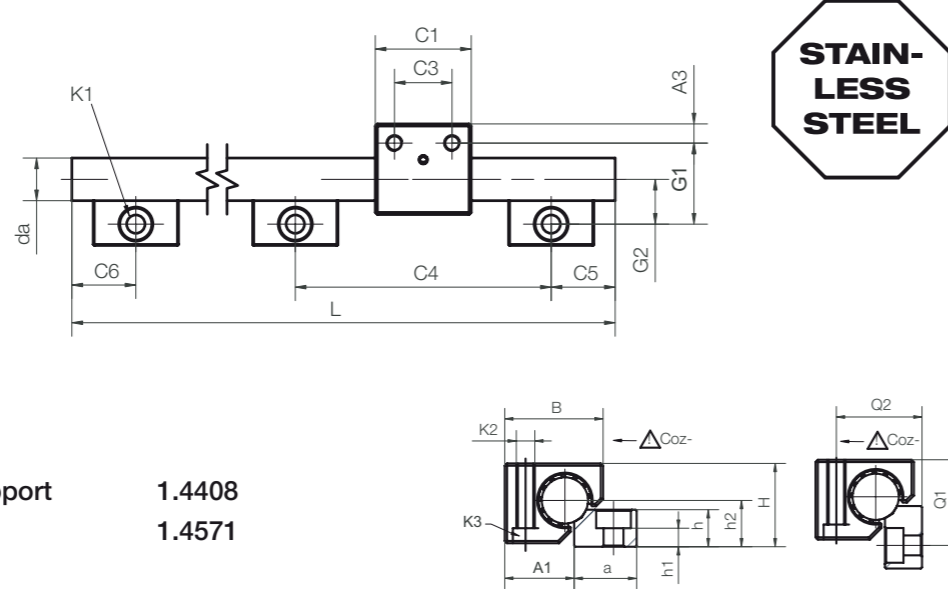
**delivery** from stock  
time

**prices** price list online  
www.igus.co.uk/en/drylinW

**order key**  
complete ► page 972



Single rail round, made of stainless steel V4A



Material for housing and shaft support **1.4408**  
Shaft **1.4571**

### Load Data and Dimensions [mm]

Part number	Weight [kg/m]	H* ±0.07	da -0.1	L max.	a -0.3	h	h1	h2	G1	G2	A1	Q1	Q2
WS-10-ES-FG	0.87	18	10	3,000	27	5.5	5.5	9	27	17	16.5	-	-
WS-16-ES-FG	2.22	27	16	3,000	27	12	4.5	14	33	19	25	32	28
WS-20-ES-FG	3.37	36	20	3,000	27	16	8	20	38	21	30	37	37

Part number	C4	C5 min.	C5 max.	C6 min.	C6 max.	K1 for screw DIN 912	Iy [mm <sup>4</sup> ]	Iz [mm <sup>4</sup> ]	Wby [mm <sup>3</sup> ]	Wbz [mm <sup>3</sup> ]
WS-10-ES-FG	120	20	79.5	20	79.5	M6**	491	491	98	98
WS-16-ES-FG	120	20	79.5	20	79.5	M8	3,217	3,217	402	402
WS-20-ES-FG	120	20	79.5	20	79.5	M8	7,854	7,854	785	785

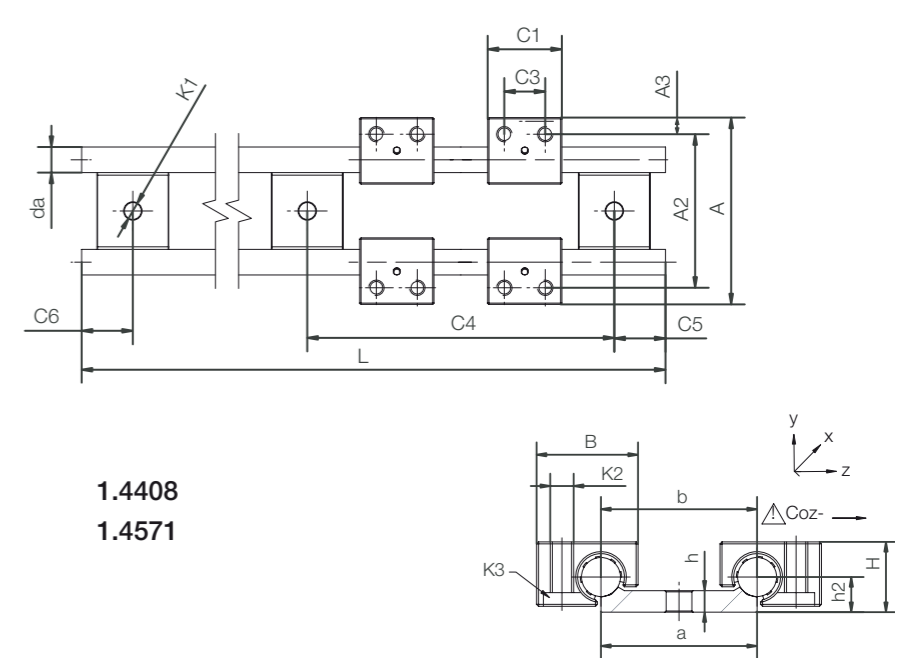
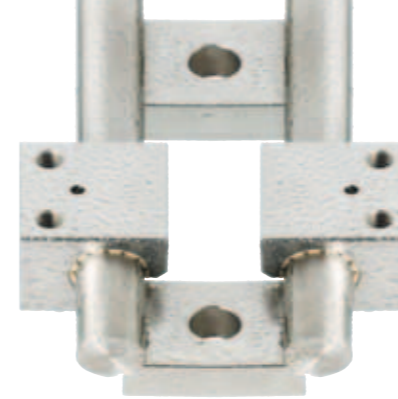
\* Height dimension minus the bearing clearance tolerance \*\* Through bore-hole

**delivery time** 8–14 days

**prices** price list online  
[www.igus.co.uk/en/drylinW](http://www.igus.co.uk/en/drylinW)

**order key** complete ▶ page 972

Double rail round, made of stainless steel V4A



Material for housing and shaft support **1.4408**  
Shaft **1.4571**

### Load Data and Dimensions [mm]

Part number	Weight [kg/m]	H ±0.07	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 number	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

Housing bearing round, made of stainless steel V4A



### Load Data and Dimensions [mm]

Part number	Weight [g]	B	C1	C3	A3	K2	K3	Stat. Load Capac.		
								Countersunk head screw	Coz- [N]	Coz+ [N]
WJUM-01-10-ES-FG*	57	26	29	16	6.5	M6	M5	3,800	3,800	950
WJUM-01-16-ES-FG	134	34.5	36	18	9	M8	M6	6,900	6,900	1,450
WJUM-01-20-ES-FG**	280	42.5	45	27	9	M8	M6	11,000	11,000	1,900

\* alternative with XUMO-01-10 liners for high temperatures available, part number: WXUM-01-10-ES-FG

\*\* alternative with XUMO-01-20 liners for high temperatures available, part number: WXUM-01-20-ES-FG



Order key complete System:

**WK-10-40-15-01-1500-HKA C5=20**



### Rail Options

leave blank: Standard with mounting holes  
C5= ... mm: If hole spacing is not symmetrical

### Carriage options

blank: Standard  
-HKA: Carriage with assembled clamp  
(available sizes/lengths ► page 968)

### Length of rail

### Number of carriage plates

### Length of carriage plate

### Support width

### Shaft diameter

### Complete system

WK: complete System with rail and carriage

### Declaration:

WK-10-40-15-01-1500: Complete system with rail (WS-10-40) with length 1,500 mm and width 40 mm, and a guide carriage (WW-10-40-15) with length 150 mm and width 73 mm.

### Valid for guide rails:

Standard bore pattern symmetrical: C5=C6; please order C5≠C6 with drawing.

WSQ-... square

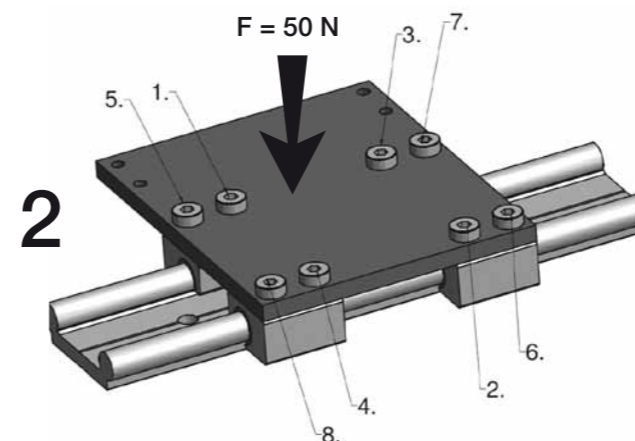
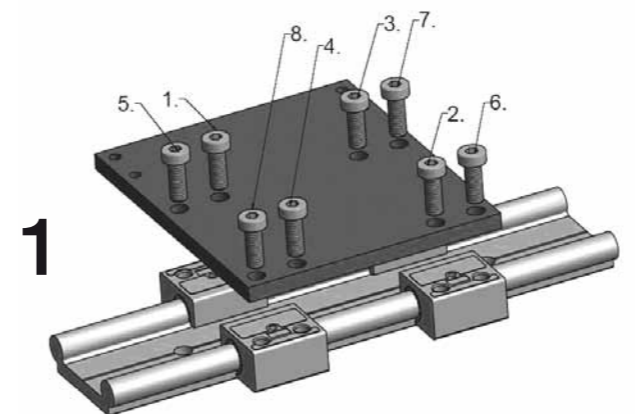
WS-... round

- CAM machined cut-out

### drylin® W alternate plastic liners

Size	Material	Housing bearing	Geometry	Part number liner
10/16/20/25	iglidur® J200	WJ200UM-01-ø	round	J200UMO-01-ø
10/20 (Floating bearing)	iglidur® J200	WJ200UM-01-ø LL	round	J200UMO-01-ø LL
10/16/20	iglidur® X	WXUM-01-ø	round	XUMO-01-ø
10 (adjustable)	iglidur® J	WJUME-01-10	round	JUME-01-10
16/20 (adjustable)	iglidur® J200	WJ200UME-01-ø	round	J200UME-01-ø
6/10/16/20	iglidur® J200	WJ200QM-01-ø	square	J200QM-01-ø
6/10/16/20 (Floating bearing)	iglidur® J200	WJ200QM-01-ø LLY/LLZ	square	J200QM-01-LL*

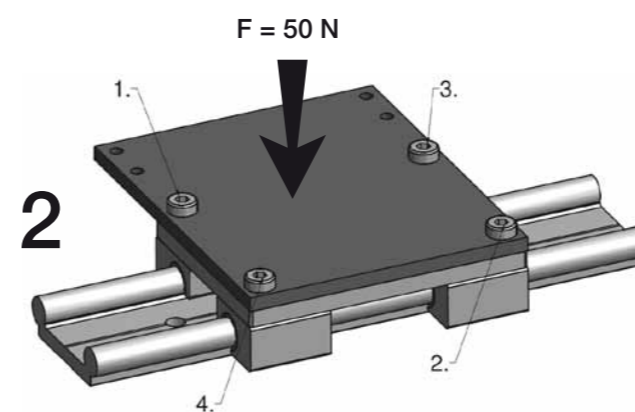
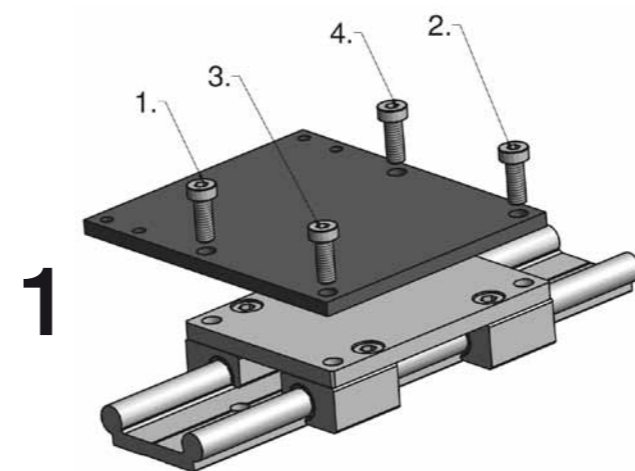
\* Depending on assembly direction, can be used as a y or z floating bearing



### drylin® W rail with housing bearings

During the installation process, a compressive force of minimum 50 N is recommended on the centre of the mounting surface. Alternatively, a plastic hammer/soft face hammer can be used during and after the mounting to align the bearing.

Size	Max. tightening torque [Nm]	Thread
W-06	1.5	M4
W-10	6.0	M6
W-16	15.0	M8
W-20	15.0	M8
W-25	30.0	M10



### drylin® W rail with complete slide system

During the installation process, a compressive force of minimum 50 N is recommended on the centre of the mounting surface. Alternatively, a plastic hammer/soft face hammer can be used during and after the mounting to align the bearing.

Size	Max. tightening torque [Nm]	Thread
W-06	1.5	M4
W-10	6.0	M6
W-16	15.0	M8
W-20	15.0	M8
W-25	30.0	M10

Please refer to the drawing for the correct screw assembly sequence.

# My Sketches

