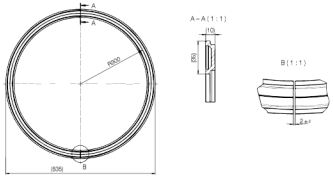
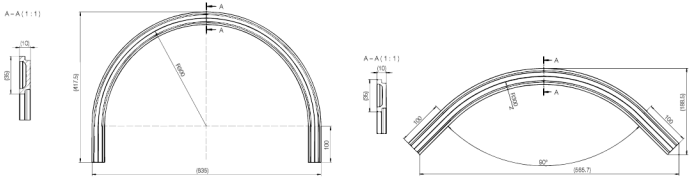
drylin® W profile guides | Product range

Curved rail profiles, square

WSB-06-30-RK300QS





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

Curved rail profiles
▶ Page 962

Technical data and dimensions [mm]

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

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

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

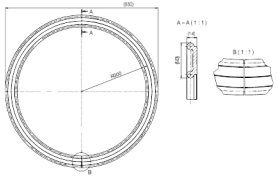
Can be combined with:

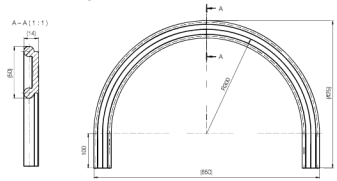
WWB-...

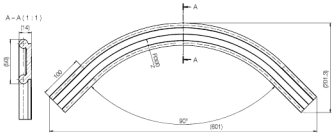
drylin® W profile guides | Product range

Curved rail profiles, round

WSB-10-40-RK300QS







Order key

Type	Size	Option

WSB-06-30-RK 300- F

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

Technical data and dimensions [mm]

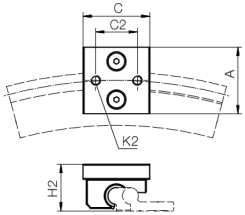
Part No.	Matching carriage for curved rail	Design	Bend radius	End straight
WSB-10-40-RK300F[151]	WWB-10-40-10-R300	Full circle	300	–
WSB-10-40-RK300HS	WWB-10-40-10-R300	Half circle	300	100
WSB-10-40-RK300QS	WWB-10-40-10-R300	Quarter circle	300	100
WSB-10-40-RK500F[151]	WWB-10-40-10-R500	Full circle	500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

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

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

drylin® W profile guides | Product range

Single bearings for curved rails



Order key

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

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

Dimensions [mm]

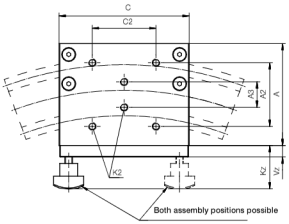
Part No.	Weight [g]	A	C	C2	K2	H2
WI3UBP-01-10	50	40	40	25	M6	28
WI3UBP-01-10-R300-LLZ	44	40	40	25	M6	28
WI3UBP-01-10-R500-LLZ	44	40	40	25	M6	28
WI3UBP-01-10-LLZ	44	40	40	25	M6	28

Can be combined with:

WSB-...

drylin® W profile guides | Product range

Carriage for curved rail



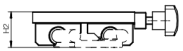
Order key

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

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

Options:
Blank: Standard
HKA: With manual clamp

Curved rail profiles
▶ Page 962



Technical data and dimensions [mm]

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

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

Can be combined with:

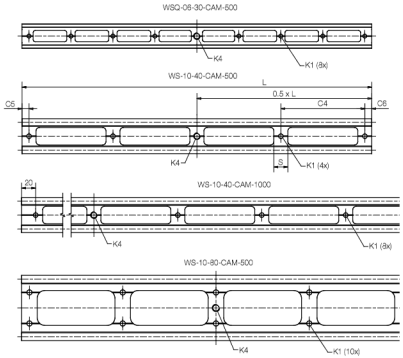
WS-... WS-...-ES-FG WSB-...

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

drylin® W profile guides | Product range

Double rails, reduced weight, hard-anodised aluminium

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



drylin® W guide rails – dimensions [mm]

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

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

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

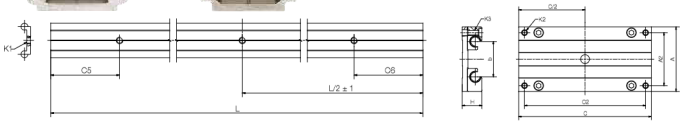
drylin® W profile guides

drylin® W profile guides | Product range

Double rails/carriages for camera slider

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

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



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

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

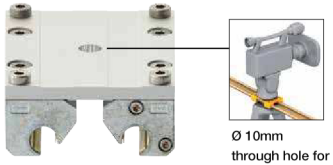
drylin® W complete carriage with Ø 10mm through hole for 3/8" thread
Dimensions [mm]

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

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

drylin® W profile guides | Product range

Hybrid slider carriages with four double roller bearings:



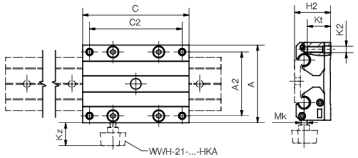
Ø 10mm through hole for 3/8" thread for cameras

Order key

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

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

Optional with manual clamp, suffix "-HKA"



Technical data and dimensions [mm]

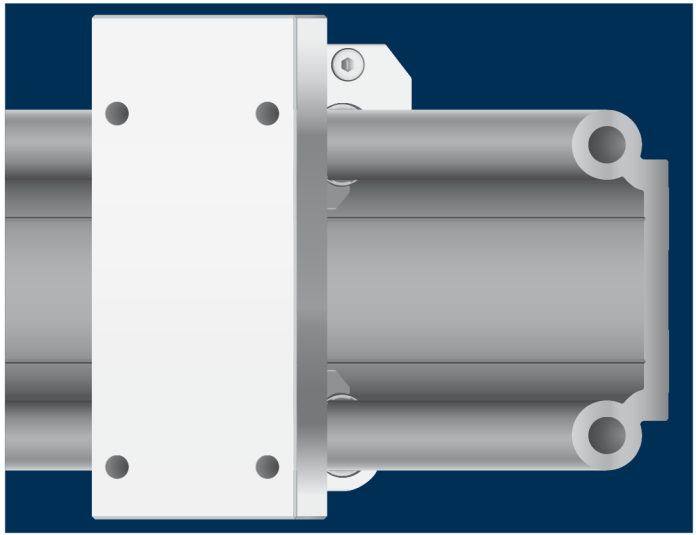
Part No.	Weight	A Width	C Length	A2	C2	K2	Kt	H2	Static load capacity Coy
	[kg]								[N]
WWH-21-10-40-10-SL	0.59	73	100	60	87	M6	21	34	1,400
WWH-21-10-40-15-SL	0.64	73	150	60	137	M6	21	34	1,400
WWH-21-10-40-20-SL	0.70	73	200	60	187	M6	21	34	1,400
WWH-21-10-80-10-SL	0.64	107	100	94	87	M6	21	34	1,400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

Can be combined with:

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

Can be combined with camera slider rails

▶ Page 1002



drylin® linear technology – drylin® W hybrid roller bearings

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

drylin® W hybrid roller bearings | Advantages

Hybrid roller bearings from the drylin® W linear construction kit

Combined sliding and rolling for low driving forces

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

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

Typical application areas

- Machine doors
- Safety doors
- Operator panels

Available from stock
Detailed information about delivery time online.

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

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

Tightening torque for drylin® metallic screws
▶ Page 963

drylin® W hybrid roller bearings | Product overview

Slide and roll

Hybrid roller bearing rail

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

▶ Page 1010

Hybrid roller bearing for WSR roller bearing rail

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

▶ Page 1011

Hybrid roller bearings with single roller

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

▶ Page 1012

Hybrid roller bearings with double rollers

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

▶ Page 1013

Complete carriages WWR

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

▶ Page 1015

Complete carriages WWH

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

▶ Page 1016

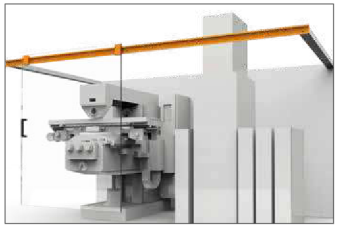
Suitable rail profiles
▶ From page 978

Camera slider
▶ From page 1003

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

Adjustment control panel unit

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



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

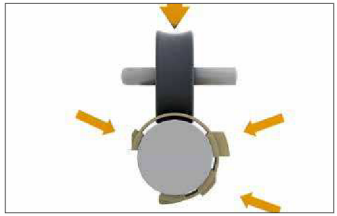
drylin® W hybrid roller bearings in combination with drylin® W profile guides offer optimum opportunities to construct dollies and sliders.

drylin® W hybrid roller bearings type 01

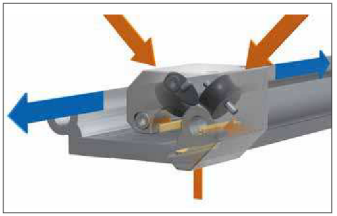
The drylin® W hybrid roller bearings from the WJRM-01-... type series are each equipped with a bearing-supported plastic roller. The bearing housing is available in three installation sizes and can be used with drylin® W single or double shaft rails in two installation positions. The hybrid roller bearing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

drylin® W hybrid roller bearings type 21

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



Forces absorbed by hybrid roller bearing

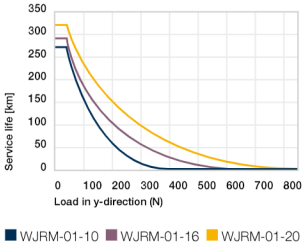


Hybrid double roller bearing applicable force absorption

Installation position 01

Installation position 02

Installation position WJRM-01-...



Installation position WJRM-21-...