drylin® T replacement plastic slide elements (set)

Material iglidur® J ▶ Page 159

Material iglidur® J200 ▶ Page 261

Guide carriages	Part No. Sliding part set
TW-12-15	TEK-12-15 (J200)
TW-12-20	TEK-12-20 (J200)
TW-12-25	TEK-12-25 (J200)
TW-12-30	TEK-12-30 (J200)
TW-01-15	TEK-01-15 (J)
TW-01-20	TEK-01-20 (J)
TW-01-25	TEK-01-25 (J)
TW-01-30	TEK-01-30 (J)
TW-02-20	TEK-02-20 (J)
TW-02-25	TEK-02-25 (J)
TW-02-30	TEK-02-30 (J)
TW-04-09	TEK-04-09 (J)
TW-04-12	TEK-04-12 (J)
TWE-04-12	TEK-E-04-12 (J)
TW-04-15	TEK-04-15 (J)
TWE-04-15	TEK-E-04-15 (J)

drylin® T end caps for series 01 guide rail holes:

Rail	Part No. End cap
TS-01-15	TSZ-011501
TS-01-20	TSZ-012001
TS-01-25	TSZ-012501
TS-01-30	TSZ-013001

When using the end caps, screws with a low screw head must be used to attach the rail.

Part No.	Fymax., Fzmax. [N]
TW-01/-12-15	2,000
TW-01/-02/-12-20	3,700
TW-01/-02/-03/-12-25	5,000
TW-01/-02/-12-30	7,000

drylin® T – system design

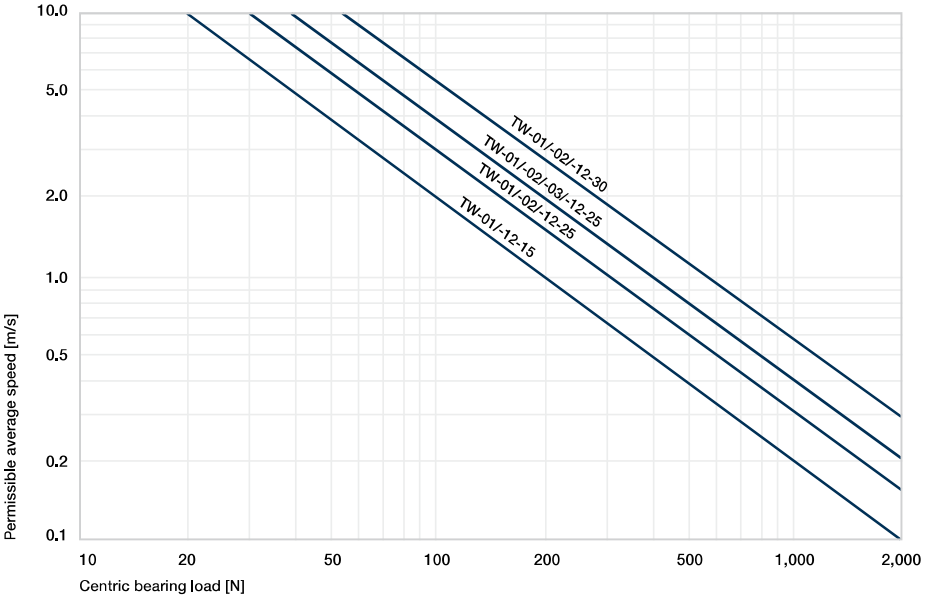


Diagram 04: Determination of the maximum permitted speed for the load

drylin® linear technology – drylin® R shaft guides

- Lubrication-free drylin® liners
- Resistance to dust and dirt
- Low coefficient of friction
- Extremely quiet operation
- Many adapter and housing options

Extremely wear-resistant, robust in challenging environments and lightweight

Lubrication-free shaft guides – drylin® R

drylin® R shaft guides are based on extremely wear-resistant polymers specially developed for the linear technology. The dimensions are compatible with standard ball bearings. The special geometry guarantees reliability even in extreme environments.

- 100% lubrication-free
- Dimensionally interchangeable with standard recirculating ball bearings
- Large variety of choice in housing shapes
- Shafts, shaft end blocks and accessories available from stock
- Replaceable liners
- Stainless steel housings available

Typical application areas

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

Available from stock
Detailed information about delivery time online.

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

Max. +200°C
Min. –40°C

Up to Ø 60mm
More dimensions upon request.

Imperial dimensions available
▶ From page 1612

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

Clean-Room
Cleanroom certificated
IPA Fraunhofer

RoHS-II
Free from toxins
2011/65/EU (RoHS)

ESD-compatible
(electrostatic discharge)

Dimensions correspond to standard for recirculating ball bearings

Liners and press-fit bearings

- Made from iglidur® high-performance polymers
- Easy to fit
- Unaffected by dirt and dust
- Low coefficient of friction, optimised wear quality

▶ Page 1080

Linear plain bearings

- Dimensionally interchangeable with standard recirculating ball bearings
- Extremely lightweight solid plastic bearing
- Aluminium and stainless steel adapters equipped with iglidur® liners

▶ Page 1102

Closed pillow blocks

- Pre-assembled linear housing with drylin® liners
- Material: Anodised aluminium
- Fixed and floating bearing version available

▶ Page 1118

Linear bearings and pillow blocks, open design

- For supported shafts
- Round or with housing
- Clearance adjustment (optional)

▶ Page 1125

Flanged linear plain bearings

- Pre-assembled housings with drylin® liners
- Round or square flange
- Tandem flange housing for additional stability

▶ Page 1130

Quad block

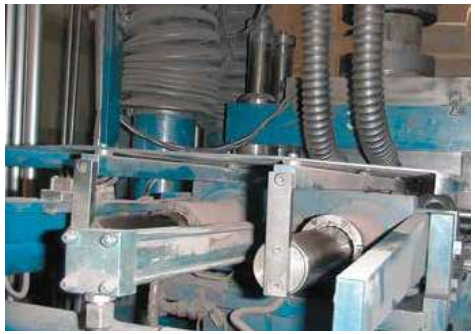
- Closed and open design
- Torque-resistant quad block housing with four linear adapters
- Also available as tandem housing

▶ Page 1138

drylin® R linear plain bearings on supported aluminium shafts are used in this grinder to guide the cutting table. The drylin® components stand for extreme dirt resistance, accurate guidance and smooth operation.

Saw mill: linear guide with iglidur® J plastic liner for the angle stops. iglidur® J liners are best suited for most linear applications due to their low wear and low friction properties.

The machine now runs entirely free of troubles for multiple years with drylin® RJUM-01 linear bearings despite the extremely heavy – duty operation.



By changing over to the drylin® R linear plain bearing, the maintenance rate of this compaction unit could be extended by two years, despite high stressing from powder particles and abrasive agents.

Since the sliding bearing should be maintenance-free, precise, compact, durable and very resilient, liners were mounted directly in the passages of the machine frame.

The production line should be adjusted without setup time being required. drylin® linear guides, which enable precise and fast adjustment, were used for this.

Expert for linear guides: System selection & service life calculation with CAD

Configure linear bearings and calculate their service life – constantly expanded by new sizes and products

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

▶ www.igus-asean.com/drylin-expert

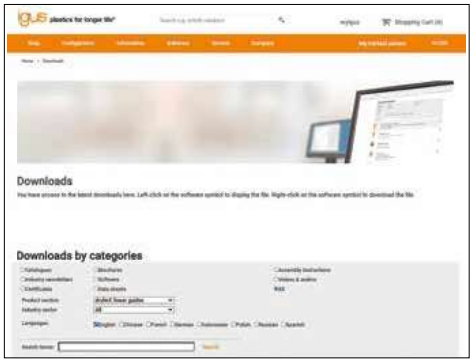
Download the online tool app now

Download on the App Store

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

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

▶ www.igus-asean.com/drylin-CAD

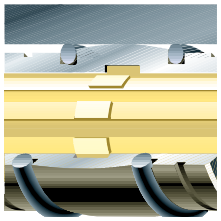


More information about the products can be found in the igus® download area

- Assembly instructions
- Assembly videos
- System design
- Catalogues

▶ www.igus-asean.com/downloads

drylin® R linear plain bearings



The drylin® standard round bearings consist of a interchangeable iglidur® J liner that is manufactured to be a mechanical fit into an anodised aluminium adapter. The locating spigot of the liner is carried out by a snap ring groove. drylin® R linear plain bearings, made from solid plastic, are dimensionally equivalent to standard ball bearings. They are made entirely out of wear-resistant iglidur® J material and can offer technical advantages in addition to the clear price advantage. Thus, applications in which machine parts are primarily stainless steel, e.g. food and filling equipment, are well suited for the use of solid plastic bearings. An additional weight-saving is also easily obtained.

Both versions are designed for the installation in housing holes with the tolerance H7. The mounting is done like in ball bearings with circlips according to DIN 471/472.

The narrow design of the 02 series linear plain bearings, is clipped into the H7 housing hole. Standard commercial 2-component adhesives can be used for this purpose.

Dirt, dust, fibres

An important feature of all the available linear bearings is their tolerance of dirt. For most systems the application of wipers or seals is recommended for even low dirt accumulation. No other system features such a high safety with dust, lint and coarse dirt as drylin®. The patented design of the bearing surface using individual slide pads connected by thin film sections, provides performance benefits for dirty environments. Dirt, even when it becomes wet on the shaft, is wiped away by the individual glide pads and is moved into the open areas. The running sections of the drylin® bearing then slide on the shaft that has been cleared of all contaminants.

Split linear bearings

Applications that are on the edge of technical feasibility or in extremely harsh environments often require frequent replacement of the bearings. In many cases, drylin® can give a multiple increase in the service life. However, in extreme applications, replacement of the bearings is necessary, even with drylin®. drylin® linear plain bearings can provide considerable cost reductions in such cases as only the polymer bearing liner has to be replaced. This often means a reduction of more than 90% in replacement part costs. In addition the dismantling of the shafts is avoided.

	 The all-rounder – iglidur® J	 The specialist – iglidur® J200	 The extreme – iglidur® X	 The endurance runner – iglidur® E7	 The FDA-compliant – iglidur® A180	 Blue Sky Thinking FDA/EU-compliant iglidur® A160
Application temperature	from –50°C to +90°C	from –50°C to +90°C	from –100°C to +250°C	from –50°C to +70°C	from –50°C to +90°C	from –50°C to +90°C
Best coefficient of friction with	Steel shaft	Hard-anodised aluminium	Hard-chromed steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Volume resistance	> 10^{13}Ωcm	> 10^{3}Ωcm	< 10^{6}Ωcm	> 10^{9}Ωcm	> 10^{12}Ωcm	> 10^{13}Ωcm
Moisture absorption	1.3% weight	0.7% weight	0.5% weight	< 0.1% weight	0.2% weight	< 0.1% weight
Maximum service life with	Hard-anodised aluminium	Hard-anodised aluminium	Hardened stainless steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Potential counter partner	All shaft materials	Hard-anodised aluminium	Hardened stainless steel	Steel/stainless steel shaft	All shaft materials	Stainless steel
Permissible stat. surface pressure	35MPa	23MPa	150MPa	18MPa	28MPa	15MPa
Part No.	JUM-...	J200UM-...	XUM-...	E7UM-...	A180UM-...	A160UM-...

The split bearings are easily pulled off the housing and opened. The slotted liner can be simply mounted on the shaft. Clip a new bearing liner over the shaft, put the two housing halves together, install – done! With this product range of split drylin® bearings, installation times can be reduced to a minimum.

Material properties:
iglidur® J ▶ Page 159
iglidur® J200 ▶ Page 261
iglidur® X ▶ Page 279
iglidur® E7 ▶ Page 267
iglidur® A160 ▶ Page 419
iglidur® A180 ▶ Page 401
iglidur® L100 ▶ Page 1654

Series L1 – low-clearance press-fit bearings

The series L1 plain bearings are composed of the iglidur® L100 bearing material, an extremely wear-resistant plastic compound. They are sub-divided into a press-fit area and a gliding range. The gliding range is composed of individual crossbars which are linked to each other by thin film bridges. These film bridges compensate the elongation of the bearing through heating or moisture. This separation enables the almost clearance-free design of the bearings, as there is no clamping of the shaft. The cylinder-shaped press-fit area is also visually very distinct from the gliding range. The function of this area, which shows a distinct clearance compared to the shaft, is to fix the bushing firmly in the housing by means of a press fit.

Compressive strength

iglidur® plain bearings are homogeneously filled with solid lubricants. In this way, lubricants cannot be removed, even at high loads. The iglidur® L100 material allows an average static surface pressure of 70MPa. However, only half of the load-bearing surface can carry loads and this is taken into account in the calculation.

Surface speeds

The following table shows possible surface speeds of L1 bearings.

- Extremely high wear resistance
- Low coefficient of friction
- Vibration-dampening
- High static compressive strength
- Good chemical resistance
- Resistant to dirt
- Also suitable for soft and rough shafts

iglidur® L100	Rotating	Oscillating	Linear
Continuous [m/s]	1.5	1.5	3
Short-term [m/s]	3	3	10

Table 02: Maximum surface speed for iglidur® L100

Coefficient of friction

Plain bearings of the L1 series are designed for dry operation against steel. The best results are attained with surface finishes from 0.3 to 0.8 Ra. The coefficient of sliding friction reduces with increasing load. Typical coefficient of friction in dry operation are 0.2 to 0.3. But the value can be higher with less suitable shafts.

Operating temperatures

Temperatures affect the compressive strength, the wear and the securing of the bearing in the housing. A firm fit could be determined in all the tests up to a temperature of +70°C. At higher temperatures, an additional securing of the bearing is recommended. With effective securing, L1 plain bearings could also be used at temperatures over +130°C.

iglidur® L100	Application temperatures
Minimum	–30°C
Max. long-term	+100°C
Maximum, short-term	+190°C

Table 03: Temperature limits for iglidur® L100

Floating bearings for linear plain bearings

drylin® 03 series linear plain bearings offer great advantages in applications with parallel shafts. With their geometry, they are able to compensate for alignment and parallelism errors and should be used on the shaft located furthest from the drive mechanism. The design provides a spherical area on the outside diameter of the aluminium adapter for self-alignment. Reductions in load capacity are prevented, since the shaft always lies on the total projected surface. Due to the even load distribution over the entire bearing, edge pressure is not possible with the self-aligning drylin® linear bearings. In order to compensate parallelism errors between two shafts, the outer diameter is designed to be smaller than the housing hole diameter by 0.2 to 0.3mm (depending on the size). With the use of mounted O-rings, these bearings have an elastic bearing seat. The clearance between the bearing and housing allows for the maximum compensation of possible shaft miss-alignment.

The drylin® R self-aligning bearings are supplied hard-anodised. These surfaces guarantee the highest wear resistance if the aluminium bearing moves in the housing during compensation adjustments. Another option are the pillow blocks in the OJUM-06 LL and RJUM-06 LL design series. The mounting of the bearing allows a parallelism adjustment between the shafts by ±3mm. The particular suspension of the supporting housing on an axis running in the z-direction enables an angular error compensation of up to 3.5°.

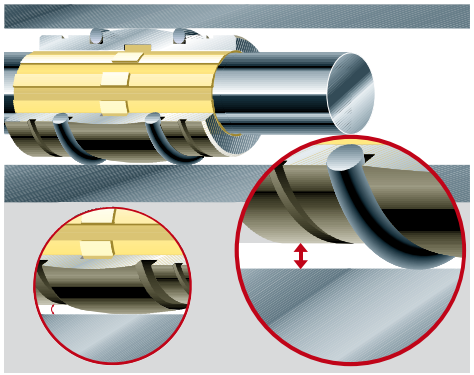


Diagram 02: By defined installation clearance and externally mounted O-rings, the self-aligning drylin® R bearings of the type series 03 can compensate parallelism errors. The spherical drylin® adapter can compensate for parallelism errors. A hard-anodisation protects the aluminium adapter from wear.

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 jamming on the guides.

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 plain 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 make use of our technical support.

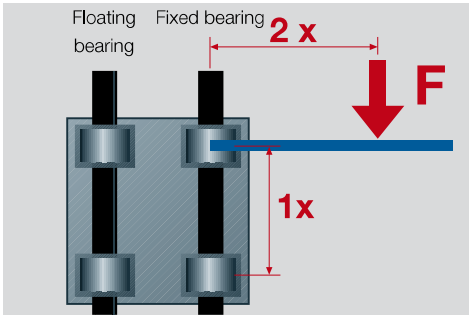


Figure 03: The 2:1 rule

RJUM-06-LL
▶ Page 1124

OJUM-06-LL
▶ Page 1125

RJUM-03/OJUM-03 series	±0.5°
RJUM-06-LL/OJUM-06-LL series	±3.5°

Table 04: Compensation of misalignment errors

RJUM-03/OJUM-03 series	±0.1mm
RJUM-06-LL/OJUM-06-LL series	±3.0mm

Table 05: Compensation of parallelism errors

drylin® R shaft guides are designed for completely lubrication-free operation. The dimensions of the respective linear adapter and housing meet the standard for recirculating ball bearings. During assembly, please note the following installation instructions:

Design tips for drylin® linear plain bearings:
The mentioned values for "F_{max}." relate to the performance of the iglidur® liners made from high-performance plastics and cannot be used as the only selection tool for the calculation of an application. The maximum carrying capacity of the entire bearing system depends on the geometry, housing shape, the housing material, the connection including the screws used and requires a separate inspection. For a detailed analysis, please use our online configurator at
▶ www.igus-asean.com/drylin-expert

Recommended tolerance for the shaft: h6–h10
Surface roughness [Ra]: 0.15–0.6
Guide shafts round/supported **▶ Shafts page 1149**

Recommended housing hole H7
Linear plain bearings RJUM-01/03, TJUM-01/03, RJM, RJMP, RJ260(U)M02, press-fit bearings WLM, WLFM

Liners:
_UM-01, _UMO-01, _UM-11, _UMO-11, _UM-02
● Interlocking with the housing bore ● Locating spigot is supported by a snap ring groove ● Anti-rotation feature through engagement of the pin in hole Ø z

Press-fit bearings:
WLM, WLFM
● Press-fit installation into the H7 housing hole
▶ Assembly instructions, **page 57**

Linear plain bearings:
RJUM-01, RJUM-11, RJUM-ES, TJUM-01, RJUM-03, TJUM-03, RJUI-01, RJUI-03, TJUI-01, TJUI-03
● Secured by DIN 471 or 472 circlips, metric types (not included)

Solid plastic bearings:
RJM, RJI-01
● Fastening with circlips according to DIN 471 or 472 (not included) ● The E9 inner tolerance applies only after the press-fit

Solid plastic bearings:
RJMP
● Easy assembly by soft press-fit
● Secured by DIN 471 or 472 circlips (not included)

Linear plain bearings:
RJUM-02
● Secured by press-fit in steel housing hole H7 or aluminium housing hole K7
● Alternatively, the adapter can be glued with commercially available 2-component adhesive into a housing

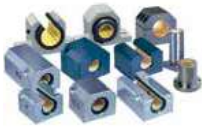
Compact bearings:
RJ260 (UM-02)
● Locating spigot and press-fit into housing hole H7 ● Alternatively, the adapter can be glued with commercially available 2-component adhesive into a housing

Linear plain bearings:
OJUM-01, OJUM-03, OJUI-01, OJUI-03
● Adapter secured with setscrews (not included)

Quad blocks: RQA, RGA
Tandem design: RTA
● The bearing in the housing is secured by DIN 472 circlips

Linear housings:
RGAS
● The bearing in the housing is secured by DIN 471 circlips

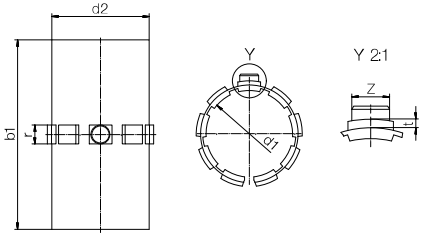
Quad blocks: OQA, OGA,
Linear housings: OGAS,
Tandem design: OTA
● The bearings is secured by screws



Pillow blocks: RJUM/E/T-05, RJUM-06/-LL, OJUM/E-06/-LL, Flange housings: FJUM/T-01/02
quad blocks: RGA, OGA
Tandem designs: RTA, OTA
Linear bearings: RGAS, OGAS
● Mounting screws of the housing DIN 912-8.8 ● Circlips according to DIN 7980

drylin® R liners | Product range

Long, closed design for shafts – made from iglidur® J (the all-rounder)



Order key

Type	Size
J U M	-01-10

iglidur® J | Liner | Metric | Standard | Inner Ø d1

The all-rounder for all shaft surfaces in indoor and outdoor applications

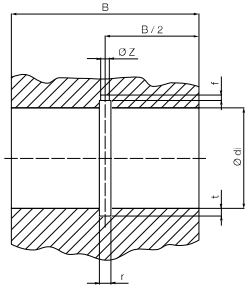
[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	28	3.0	0.8	2.5	1.10	JUM-01-10
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.50	JUM-01-12
16	+0.030 +0.070	18	35	3.5	0.8	3.5	2.20	JUM-01-16
20	+0.030 +0.070	23	44	5.0	0.8	3.5	4.90	JUM-01-20
25	+0.030 +0.070	28	57	5.0	0.8	4.0	8.23	JUM-01-25
30	+0.040 +0.085	34	67	5.0	0.8	4.0	14.95	JUM-01-30
35	+0.040 +0.085	39	69	5.0	0.8	4.0	18.20	JUM-01-35
40	+0.040 +0.085	44	79	6.0	1.3	5.0	23.16	JUM-01-40
50	+0.050 +0.150	55	99	7.0	1.3	6.0	45.35	JUM-01-50
60	+0.050 +0.150	65	124	8.0	2.0	6.5	70.00	JUM-01-60[79]

Housing hole for JUM-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	29	3.0	1.0	1.0	2.6	JUM-01-10
12	14	32	3.0	1.0	1.5	3.1	JUM-01-12
16	18	36	3.5	1.0	1.7	3.6	JUM-01-16
20	23	45	5.0	1.0	2.0	3.6	JUM-01-20
25	28	58	5.0	1.0	2.0	4.1	JUM-01-25
30	34	68	5.0	1.0	2.0	4.1	JUM-01-30
35	39	70	5.0	1.0	2.0	4.1	JUM-01-35
40	44	80	6.0	1.5	2.5	5.1	JUM-01-40
50	55	100	7.0	1.5	2.5	6.1	JUM-01-50
60	65	125	8.0	2.5	3.0	6.5	JUM-01-60[79]



[79] in two parts

Can be combined with:


RJUM-01/-03
TJUM-01/-03

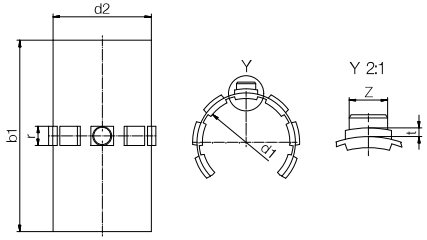

RJUM-06/-06-LL


FJUM-01/-02

inch Imperial dimensions ▶ Page 1612

drylin® R liners | Product range

Long, open design for supported shafts – made from iglidur® J (the all-rounder)



Order key

Type	Size
J U M O	-01-10

iglidur® J | Liner | Metric | Open | Standard | Inner Ø d1

The all-rounder for all shaft surfaces in indoor and outdoor applications

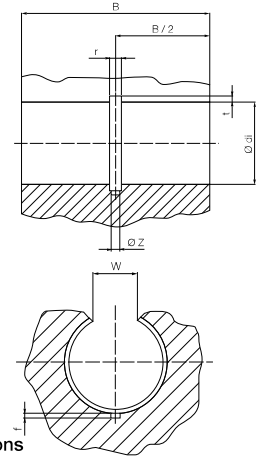
[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	28	3.0	0.8	2.5	0.90	JUMO-01-10
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.16	JUMO-01-12
16	+0.030 +0.070	18	35	3.5	0.8	3.5	1.71	JUMO-01-16
20	+0.030 +0.070	23	44	5.0	0.8	3.5	4.16	JUMO-01-20
25	+0.030 +0.070	28	57	5.0	0.8	4.0	6.97	JUMO-01-25
30	+0.040 +0.085	34	67	5.0	0.8	4.0	12.38	JUMO-01-30
40	+0.040 +0.085	44	79	6.0	1.3	5.0	20.18	JUMO-01-40
50	+0.050 +0.150	55	99	7.0	1.3	6.0	38.60	JUMO-01-50
60	+0.050 +0.150	65	124	8.0	2.0	6.5	60.10	JUMO-01-60[79]

Housing hole for JUMO-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	W	r +0.5	t +0.05	f +0.1	Z +0.2	Part No.
10	12	29	7.3	3.0	1.0	1.0	2.6	JUMO-01-10
12	14	32	9.0	3.0	1.0	1.5	3.1	JUMO-01-12
16	18	36	11.6	3.5	1.0	1.7	3.6	JUMO-01-16
20	23	45	12.0	5.0	1.0	2.0	3.6	JUMO-01-20
25	28	58	14.5	5.0	1.0	2.0	4.1	JUMO-01-25
30	34	68	16.6	5.0	1.0	2.0	4.1	JUMO-01-30
40	44	80	21.0	6.0	1.5	2.5	5.1	JUMO-01-40
50	55	100	25.5	7.0	1.5	2.5	6.1	JUMO-01-50
60	65	125	27.2	8.0	2.5	3.0	6.5	JUMO-01-60[79]



[79] in two parts

Can be combined with:

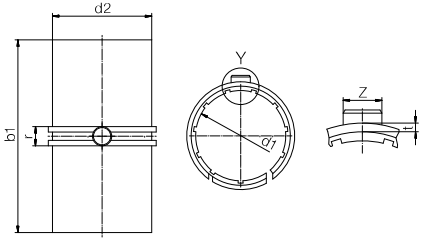

OJUM-01/-03


OJUM-06/-06-LL

inch Imperial dimensions ▶ Page 1612

drylin® R liners | Product range

Long, closed design, precise for shafts – made from iglidur® J (the all-rounder)



Order key

Type	Size
J U M-11-10	

iglidur® J | Liner | Metric | Precise | Inner Ø d1

- Max. bearing clearance reduced by 50%
- Increased contact surface: longer service life

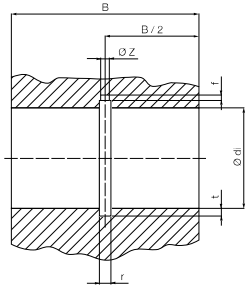
78) According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

Dimensions [mm]

d1	d1 tolerance78)	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.000 +0.040	12	28	3.0	0.8	2.5	1.23	**JUM-11-10**
12	+0.000 +0.040	14	31	3.0	0.8	3.0	1.65	**JUM-11-12**
16	+0.000 +0.040	18	35	3.5	0.8	3.5	2.42	**JUM-11-16**
20	+0.000 +0.040	23	44	5.0	0.8	3.5	5.49	**JUM-11-20**
25	+0.000 +0.040	28	57	5.0	0.8	4.0	8.86	**JUM-11-25**
30	+0.000 +0.050	34	67	5.0	0.8	4.0	16.63	**JUM-11-30**
40	+0.000 +0.050	44	79	6.0	1.3	5.0	26.06	**JUM-11-40**
50	+0.000 +0.060	55	99	7.0	1.3	6.0	48.82	**JUM-11-50**

Housing hole for JUM-11 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	29	3.0	1.0	1.0	2.6	**JUM-11-10**
12	14	32	3.0	1.0	1.5	3.1	**JUM-11-12**
16	18	36	3.5	1.0	1.7	3.6	**JUM-11-16**
20	23	45	5.0	1.0	2.0	3.6	**JUM-11-20**
25	28	58	5.0	1.0	2.0	4.1	**JUM-11-25**
30	34	68	5.0	1.0	2.0	4.1	**JUM-11-30**
40	44	80	6.0	1.5	2.5	5.1	**JUM-11-40**
50	55	100	7.0	1.5	2.5	6.1	**JUM-11-50**



Can be combined with:


RJUM-01/-03
TJUM-01/-03

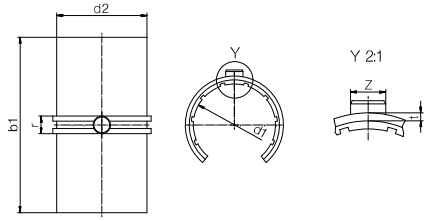

RJUM-06/-06-LL


FJUM-01/-02

drylin® R shaft guides

drylin® R liners | Product range

Long, open design, precise for supported shafts – made from iglidur® J (the all-rounder)



Order key

Type	Size
J U M O-11-10	

iglidur® J | Liner | Metric | Open | Precise | Inner Ø d1

- Max. bearing clearance reduced by 50%
- Increased contact surface: longer service life

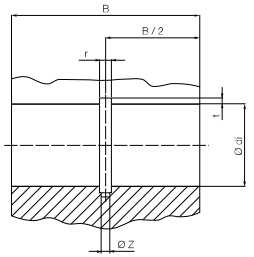
78) According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

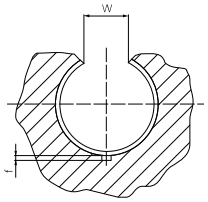
Dimensions [mm]

d1	d1 tolerance78)	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.000 +0.040	12	28	3.0	0.8	2.5	1.10	**JUMO-11-10**
12	+0.000 +0.040	14	31	3.0	0.8	3.0	1.50	**JUMO-11-12**
16	+0.000 +0.040	18	35	3.5	0.8	3.5	2.20	**JUMO-11-16**
20	+0.000 +0.040	23	44	5.0	0.8	3.5	4.90	**JUMO-11-20**
25	+0.000 +0.040	28	57	5.0	0.8	4.0	8.23	**JUMO-11-25**
30	+0.000 +0.050	34	67	5.0	0.8	4.0	14.95	**JUMO-11-30**
40	+0.000 +0.050	44	79	6.0	1.3	5.0	23.16	**JUMO-11-40**
50	+0.000 +0.060	55	99	7.0	1.3	6.0	45.35	**JUMO-11-50**

Housing hole for JUMO-11 | Dimensions [mm]

Shaft Ø	di H7	B h10	W +0.2	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	29	7.3	3.0	1.0	1.0	2.6	**JUMO-11-10**
12	14	32	9.0	3.0	1.0	1.5	3.1	**JUMO-11-12**
16	18	36	11.6	3.5	1.0	1.7	3.6	**JUMO-11-16**
20	23	45	12.0	5.0	1.0	2.0	3.6	**JUMO-11-20**
25	28	58	14.5	5.0	1.0	2.0	4.1	**JUMO-11-25**
30	34	68	16.6	5.0	1.0	2.0	4.1	**JUMO-11-30**
40	44	80	21.0	6.0	1.5	2.5	5.1	**JUMO-11-40**
50	55	100	25.5	7.0	1.5	2.5	6.1	**JUMO-11-50**





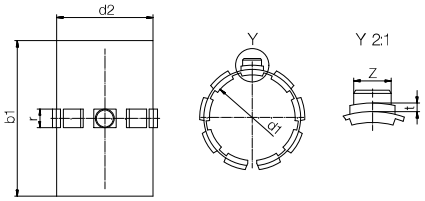
Can be combined with:


OJUM-01/-03


OJUM-06/-06-LL

drylin® R liners | Product range

Short, closed design for shafts – made from iglidur® J (the all-rounder)



Order key

Type	Size
J U M-02-10	

- iglidur® J
- Liner
- Metric
- Compact
- Inner Ø d1

The all-rounder for all shaft surfaces in indoor and outdoor applications

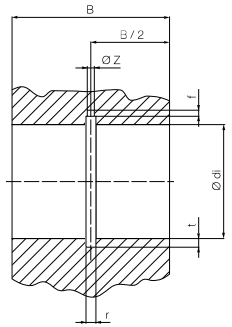
78) According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

Dimensions [mm]

d1	d1 tolerance78)	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	25	3.0	0.8	2.5	1.02	**JUM-02-10**
12	+0.030 +0.070	14	27	3.0	0.8	3.0	1.27	**JUM-02-12**
16	+0.030 +0.070	18	29	3.5	0.8	3.5	1.82	**JUM-02-16**
20	+0.030 +0.070	23	29	5.0	0.8	3.5	3.27	**JUM-02-20**
25	+0.030 +0.070	28	39	5.0	0.8	4.0	5.75	**JUM-02-25**
30	+0.040 +0.085	34	49	5.0	0.8	4.0	11.28	**JUM-02-30**
40	+0.040 +0.085	44	59	6.0	1.3	5.0	17.94	**JUM-02-40**
45	+0.040 +0.085	50	59	7.0	1.3	6.0	27.00	**JUM-02-45**
50	+0.050 +0.150	55	69	7.0	1.3	6.0	32.56	**JUM-02-50**

Housing hole for JUM-02 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	26	3.0	1.0	1.0	2.6	**JUM-02-10**
12	14	28	3.0	1.0	1.5	3.1	**JUM-02-12**
16	18	30	3.5	1.0	1.7	3.6	**JUM-02-16**
20	23	30	5.0	1.0	2.0	3.6	**JUM-02-20**
25	28	40	5.0	1.0	2.0	4.1	**JUM-02-25**
30	34	50	5.0	1.0	2.0	4.1	**JUM-02-30**
40	44	60	6.0	1.5	2.5	5.1	**JUM-02-40**
45	50	60	7.0	1.5	2.5	6.1	**JUM-02-45**
50	55	70	7.0	1.5	2.5	6.1	**JUM-02-50**



Can be combined with:

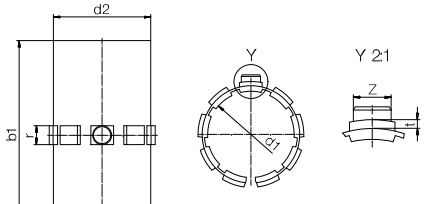

RJUM-02


RJUM-05/RJUME-05
TJUM-05/RJUMT-05


FJUMT-01/-02

drylin® R liners | Product range

Long, closed design for shafts – made from iglidur® J200 (the specialist)



Order key

Type	Size
J200 U M-01-10	

- iglidur® J200
- Liner
- Metric
- Standard
- Inner Ø d1

The "specialist" with the best running performance on aluminium

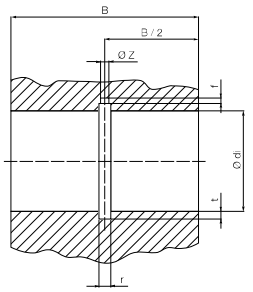
78) According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

Dimensions [mm]

d1	d1 tolerance78)	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	28	3.0	0.8	2.5	1.10	**J200UM-01-10**
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.50	**J200UM-01-12**
16	+0.030 +0.070	18	35	3.5	0.8	3.5	2.54	**J200UM-01-16**
20	+0.030 +0.070	23	44	5.0	0.8	3.5	5.66	**J200UM-01-20**
25	+0.030 +0.070	28	57	5.0	0.8	4.0	9.51	**J200UM-01-25**
30	+0.040 +0.085	34	67	5.0	0.8	4.0	17.27	**J200UM-01-30**
40	+0.040 +0.085	44	79	6.0	1.3	5.0	26.75	**J200UM-01-40**
50	+0.050 +0.150	55	99	7.0	1.3	6.0	52.38	**J200UM-01-50**

Housing hole for J200UM-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	29	3.0	1.0	1.0	2.6	**J200UM-01-10**
12	14	32	3.0	1.0	1.5	3.1	**J200UM-01-12**
16	18	36	3.5	1.0	1.7	3.6	**J200UM-01-16**
20	23	45	5.0	1.0	2.0	3.6	**J200UM-01-20**
25	28	58	5.0	1.0	2.0	4.1	**J200UM-01-25**
30	34	68	5.0	1.0	2.0	4.1	**J200UM-01-30**
40	44	80	6.0	1.5	2.5	5.1	**J200UM-01-40**
50	55	100	7.0	1.5	2.5	6.1	**J200UM-01-50**



Can be combined with:

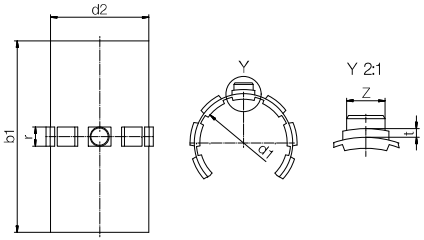

RJUM-01/-03
TJUM-01/-03


RJUM-06/-06-LL


FJUM-01/-02

drylin® R liners | Product range

Long, open design for supported shafts – made from iglidur® J200 (the specialist)



Order key

Type						Size
J200	U	M	O	-01	-10	
iglidur® J200	Liner	Metric	Open	Standard	Inner Ø d1	

The "specialist" with the best running performance on aluminium

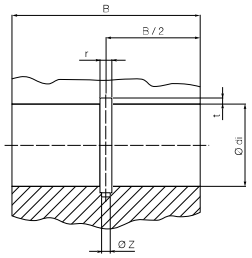
[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

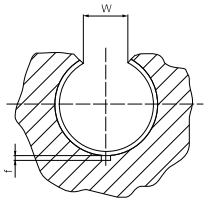
Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	28	3.0	0.8	2.5	1.04	J200UMO-01-10
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.34	J200UMO-01-12
16	+0.030 +0.070	18	35	3.5	0.8	3.5	1.98	J200UMO-01-16
20	+0.030 +0.070	23	44	5.0	0.8	3.5	4.80	J200UMO-01-20
25	+0.030 +0.070	28	57	5.0	0.8	4.0	8.05	J200UMO-01-25
30	+0.040 +0.085	34	67	5.0	0.8	4.0	14.30	J200UMO-01-30
40	+0.040 +0.085	44	79	6.0	1.3	5.0	23.31	J200UMO-01-40

Housing hole for J200UMO-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	W	r +0.5	t +0.05	f +0.1	Z +0.2	Part No.
10	12	29	7.3	3.0	1.0	1.0	2.6	J200UMO-01-10
12	14	32	9.0	3.0	1.0	1.5	3.1	J200UMO-01-12
16	18	36	11.6	3.5	1.0	1.7	3.6	J200UMO-01-16
20	23	45	12.0	5.0	1.0	2.0	3.6	J200UMO-01-20
25	28	58	14.5	5.0	1.0	2.0	4.1	J200UMO-01-25
30	34	68	16.6	5.0	1.0	2.0	4.1	J200UMO-01-30
40	44	80	21.0	6.0	1.5	2.5	5.1	J200UMO-01-40





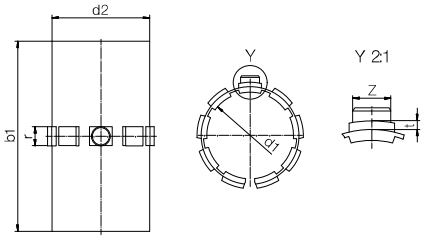
Can be combined with:


OJUM-01/-03


OJUM-06/-06-LL

drylin® R liners | Product range

Long, closed design for shafts – made from iglidur® E7 (the endurance runner)



Order key

Type						Size
E7	U	M	-01	-10		
iglidur® E7	Liner	Metric	Standard	Inner Ø d1		

The "endurance runner" up to 8 times longer service life on steel shafts

[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +70°C

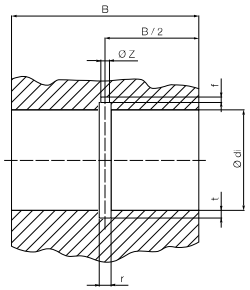
Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	28	3.0	0.8	2.5	0.73	E7UM-01-10
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.01	E7UM-01-12
16	+0.030 +0.070	18	35	3.5	0.8	3.5	1.45	E7UM-01-16
20	+0.030 +0.070	23	44	5.0	0.8	3.5	3.25	E7UM-01-20
25	+0.030 +0.070	28	57	5.0	0.8	4.0	5.44	E7UM-01-25
30	+0.040 +0.085	34	67	5.0	0.8	4.0	9.88	E7UM-01-30
40	+0.040 +0.085	44	79	6.0	1.3	5.0	17.30	E7UM-01-40
50	+0.050 +0.150	55	99	7.0	1.3	6.0	36.30	E7UM-01-50[79]
60	+0.050 +0.150	65	124	8.0	2.5	6.5	54.80	E7UM-01-60[79]

Housing hole for E7UM-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.5	t +0.05	f +0.1	Z +0.2	Part No.
10	12	29	3.0	1.0	1.0	2.6	E7UM-01-10
12	14	32	3.0	1.0	1.5	3.1	E7UM-01-12
16	18	36	3.5	1.0	1.7	3.6	E7UM-01-16
20	23	45	5.0	1.0	2.0	3.6	E7UM-01-20
25	28	58	5.0	1.0	2.0	4.1	E7UM-01-25
30	34	68	5.0	1.0	2.0	4.1	E7UM-01-30
40	44	80	6.0	1.5	2.5	5.1	E7UM-01-40
50	55	100	7.0	1.5	2.5	6.1	E7UM-01-50[79]
60	65	125	8.0	2.5	3.0	6.5	E7UM-01-60[79]

[79] in two parts



Can be combined with:


RJUM-01/-03
TJUM-01/-03


RJUM-01-ES

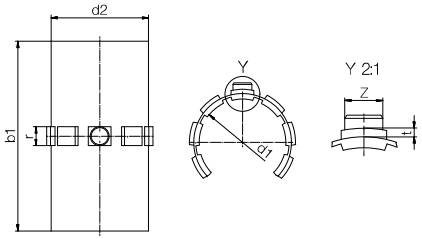

RJUM-06/-06-LL


FJUM-01/-02

Imperial dimensions ▶ Page 1612

drylin® R liners | Product range

Long, open design for supported shafts – made from iglidur® E7 (the endurance runner)



Order key

Type	Size
E7 U M O	-01-10

iglidur® E7	Liner	Metric	Open	Standard	Inner Ø d1

The "endurance runner" up to 8 times longer service life on steel shafts

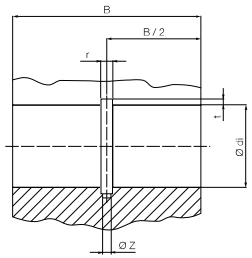
[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +70°C

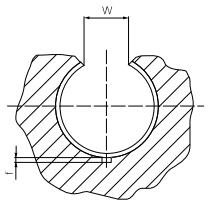
Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	28	3.0	0.8	2.5	0.73	E7UMO-01-10
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.01	E7UMO-01-12
16	+0.030 +0.070	18	35	3.5	0.8	3.5	1.45	E7UMO-01-16
20	+0.030 +0.070	23	44	5.0	0.8	3.5	3.25	E7UMO-01-20
25	+0.030 +0.070	28	57	5.0	0.8	4.0	5.44	E7UMO-01-25
30	+0.040 +0.085	34	67	5.0	0.8	4.0	9.88	E7UMO-01-30
40	+0.040 +0.085	44	79	6.0	1.3	5.0	17.30	E7UMO-01-40
50	+0.050 +0.150	55	99	7.0	1.3	6.0	36.40	E7UMO-01-50[79]
60	+0.050 +0.150	65	124	8.0	2.5	6.5	54.80	E7UMO-01-60[79]

Housing hole for E7UMO-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	W	r +0.5	t +0.05	f +0.1	Z +0.2	Part No.
10	12	29	7.3	3.0	1.0	1.0	2.6	E7UMO-01-10
12	14	32	9.0	3.0	1.0	1.5	3.1	E7UMO-01-12
16	18	36	11.6	3.5	1.0	1.7	3.6	E7UMO-01-16
20	23	45	12.0	5.0	1.0	2.0	3.6	E7UMO-01-20
25	28	58	14.5	5.0	1.0	2.0	4.1	E7UMO-01-25
30	34	68	16.6	5.0	1.0	2.0	4.1	E7UMO-01-30
40	44	80	21.0	6.0	1.5	2.5	5.1	E7UMO-01-40
50	55	100	25.5	7.0	1.5	2.5	6.1	E7UMO-01-50[79]
60	65	125	27.2	8.0	2.5	3.0	6.5	E7UMO-01-60[79]





[79] in two parts

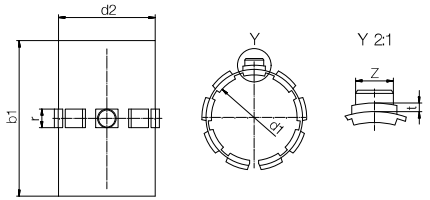
Can be combined with:


OJUM-01/-03


OJUM-06/-06-LL

drylin® R liners | Product range

Short, closed design for shafts – made from iglidur® E7 (the endurance runner)



Order key

Type	Size
E7 U M	-02-10

iglidur® E7	Liner	Metric	Compact	Inner Ø d1

The "endurance runner" up to 8 times longer service life on steel shafts

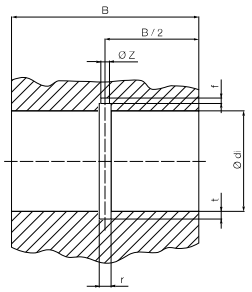
[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +70°C

Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.030 +0.070	12	25	3.0	0.8	2.5	0.73	E7UM-02-10
12	+0.030 +0.070	14	27	3.0	0.8	3.0	1.01	E7UM-02-12
16	+0.030 +0.070	18	29	3.5	0.8	3.5	1.45	E7UM-02-16
20	+0.030 +0.070	23	29	5.0	0.8	3.5	3.25	E7UM-02-20
25	+0.030 +0.070	28	39	5.0	0.8	4.0	5.44	E7UM-02-25
30	+0.040 +0.085	34	49	5.0	0.8	4.0	9.88	E7UM-02-30
40	+0.040 +0.085	44	59	6.0	1.3	5.0	17.30	E7UM-02-40

Housing hole for E7UM-02 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	26	3.0	1.0	1.0	2.6	E7UM-02-10
12	14	28	3.0	1.0	1.5	3.1	E7UM-02-12
16	18	30	3.5	1.0	1.7	3.6	E7UM-02-16
20	23	30	5.0	1.0	2.0	3.6	E7UM-02-20
25	28	40	5.0	1.0	2.0	4.1	E7UM-02-25
30	34	50	5.0	1.0	2.0	4.1	E7UM-02-30
40	44	60	6.0	1.5	2.5	5.1	E7UM-02-40



Can be combined with:

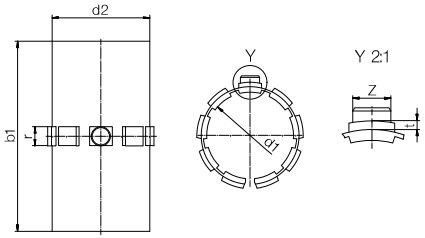

RJUM-02


RJUM-05/RJUME-05
TJUM-05/RJUMT-05


FJUMT-01/-02

drylin® R liners | Product range

Long, closed design for shafts, two-piece – made from iglidur® X (the extreme)



Order key

Type	Size
X U M-01-12	

iglidur® X | Liner | Metric | Standard | Inner Ø d1

The "extreme", resistant to temperature and chemicals on stainless steel and chromed shafts

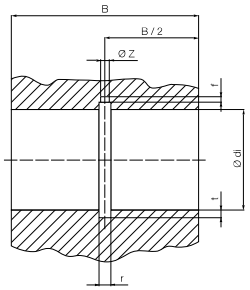
[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –100°C
Max. +250°C

Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
12	+0.020 +0.060	14	31	3.0	0.8	3.0	1.50	**XUM-01-12**
14	+0.020 +0.060	18	35	3.5	0.8	3.5	2.13	**XUM-01-14**
16	+0.020 +0.060	18	35	3.5	0.8	3.5	2.20	**XUM-01-16**
20	+0.030 +0.070	23	44	5.0	0.8	3.5	4.90	**XUM-01-20**
25	–0.030 +0.010	28	57	5.0	0.8	4.0	8.23	**XUM-01-25**
30	–0.040 +0.010	34	67	5.0	0.8	4.0	14.95	**XUM-01-30**
40	±0.000 +0.050	44	79	6.0	1.3	5.0	23.16	**XUM-01-40**

Housing hole for XUM-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
12	14	32	3.0	1.0	1.5	3.1	**XUM-01-12**
14	16	30	3.5	1.0	1.7	3.6	**XUM-01-14**
16	18	36	3.5	1.0	1.7	3.6	**XUM-01-16**
20	23	45	5.0	1.0	2.0	3.6	**XUM-01-20**
25	28	58	5.0	1.0	2.0	4.1	**XUM-01-25**
30	34	68	5.0	1.0	2.0	4.1	**XUM-01-30**
40	44	80	6.0	1.5	2.5	5.1	**XUM-01-40**



Can be combined with:

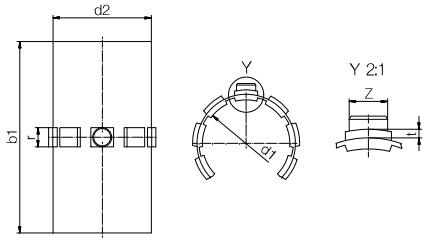

RJUM-01/-03
TJUM-01/-03


RJUM-06/-06-LL


FJUM-01/-02

drylin® R liners | Product range

Long, open design for supported shafts, two-piece – made from iglidur® X (the extreme)



Order key

Type	Size
X U M O-01-10	

iglidur® X | Liner | Metric | Open | Standard | Inner Ø d1

The "extreme", resistant to temperature and chemicals on stainless steel and chromed shafts

[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –100°C
Max. +250°C

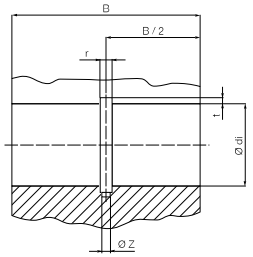
Dimensions [mm]

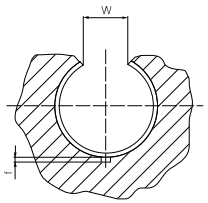
d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	–0.020 +0.020	12	28	3.0	0.8	2.5	1.00	**XUMO-01-10**[110]
12	+0.020 +0.060	14	31	3.0	0.8	3.0	1.20	**XUMO-01-12**
16	+0.020 +0.060	18	35	3.5	0.8	3.5	2.30	**XUMO-01-16**
20	+0.030 +0.070	23	44	5.0	0.8	3.5	4.30	**XUMO-01-20**
25	–0.030 +0.010	28	57	5.0	0.8	4.0	6.80	**XUMO-01-25**
30	–0.040 +0.010	34	67	5.0	0.8	4.0	13.30	**XUMO-01-30**
40	±0.000 +0.050	44	79	6.0	1.3	5.0	22.60	**XUMO-01-40**

Housing hole for XUMO-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	W +0.2	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	29	7.3	3.0	1.0	1.0	2.6	**XUMO-01-10**[110]
12	14	32	9.0	3.0	1.0	1.5	3.1	**XUMO-01-12**
16	18	36	11.6	3.5	1.0	1.7	3.6	**XUMO-01-16**
20	23	45	12.0	5.0	1.0	2.0	3.6	**XUMO-01-20**
25	28	58	14.5	5.0	1.0	2.0	4.1	**XUMO-01-25**
30	34	68	16.6	5.0	1.0	2.0	4.1	**XUMO-01-30**
40	44	80	21.0	6.0	1.5	2.5	5.1	**XUMO-01-40**

[110] One-piece





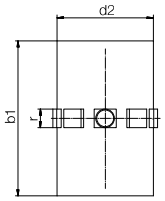
Can be combined with:

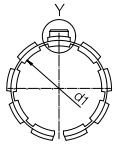

OJUM-01/-03
TJUM-01/-03

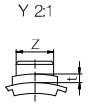

OJUM-06/-06-LL

drylin® R liners | Product range

Short, closed design for shafts, two-pieces – made from iglidur® X (the extreme)







Order key

Type	Size
X U M-02-12	

iglidur® X	Liner	Metric	Compact	Inner Ø d1

The "extreme", resistant to temperature and chemicals on stainless steel and chromed shafts

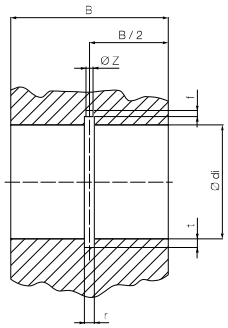
[78] According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –100°C
Max. +250°C

Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
12	+0.020 +0.060	14	27	3.0	0.8	3.0	1.3	**XUM-02-12**
16	+0.020 +0.060	18	29	3.5	0.8	3.5	2.5	**XUM-02-16**
20	+0.030 +0.070	23	29	5.0	0.8	3.5	3.4	**XUM-02-20**
25	–0.030 +0.010	28	39	5.0	0.8	4.0	5.6	**XUM-02-25**
30	–0.040 +0.010	34	49	5.0	0.8	4.0	12.0	**XUM-02-30**
40	±0.000 +0.050	44	59	6.0	1.3	5.0	20.0	**XUM-02-40**

Housing hole for XUM-02 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
12	14	28	3.0	1.0	1.5	3.1	**XUM-02-12**
16	18	30	3.5	1.0	1.7	3.6	**XUM-02-16**
20	23	30	5.0	1.0	2.0	3.6	**XUM-02-20**
25	28	40	5.0	1.0	2.0	4.1	**XUM-02-25**
30	34	50	5.0	1.0	2.0	4.1	**XUM-02-30**
40	44	60	6.0	1.5	2.5	5.1	**XUM-02-40**



Can be combined with:


RJUM-02


RJUM-01-ES

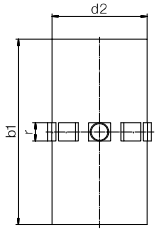

RJUM-05/RJUME-05
TJUM-05/RJUMT-05

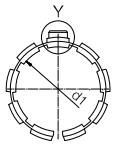

FJUMT-01/-02

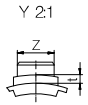
My sketches

drylin® R liners | Product range

Long, closed design for round shafts – made from iglidur® A180 (FDA-compliant)







Order key

Type	Size

A180 U M-01-10

iglidur® A180	Liner	Metric	Standard	Inner Ø d1

The FDA-compliant for the food and pharmaceutical industry

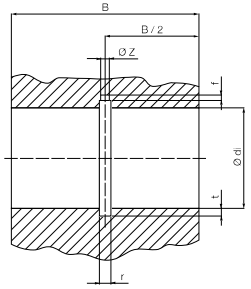
78) According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

Dimensions [mm]

d1	d1 tolerance78)	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.000 +0.020	12	28	3.0	0.8	2.5	1.08	A180UM-01-10
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.47	A180UM-01-12
16	+0.030 +0.070	18	35	3.5	0.8	3.5	2.16	A180UM-01-16
20	+0.030 +0.070	23	44	5.0	0.8	3.5	4.80	A180UM-01-20
25	+0.030 +0.070	28	57	5.0	0.8	4.0	8.07	A180UM-01-25
30	+0.040 +0.085	34	67	5.0	0.8	4.0	14.65	A180UM-01-30
35	+0.040 +0.085	39	69	5.0	0.8	4.0	17.84	A180UM-01-35
40	+0.040 +0.085	44	79	6.0	1.3	5.0	22.70	A180UM-01-40
50	+0.050 +0.150	55	99	7.0	1.3	6.0	44.44	A180UM-01-50

Housing hole for A180UM-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	29	3.0	1.0	1.0	2.6	A180UM-01-10
12	14	32	3.0	1.0	1.5	3.1	A180UM-01-12
16	18	36	3.5	1.0	1.7	3.6	A180UM-01-16
20	23	45	5.0	1.0	2.0	3.6	A180UM-01-20
25	28	58	5.0	1.0	2.0	4.1	A180UM-01-25
30	34	68	5.0	1.0	2.0	4.1	A180UM-01-30
35	39	70	5.0	1.0	2.0	4.1	A180UM-01-35
40	44	80	6.0	1.5	2.5	5.1	A180UM-01-40
50	55	100	7.0	1.5	2.5	6.1	A180UM-01-50



Can be combined with:

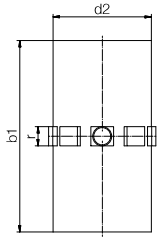

RJUM-01/-03
TJUM-01/-03

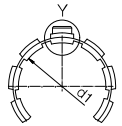

RJUM-06/-06-LL

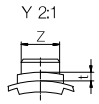

FJUM-01/-02

drylin® R liners | Product range

Long, open design for supported shafts – made from iglidur® A180 (FDA-compliant)







Order key

Type	Size

A180 U M O-01-10

iglidur® A180	Liner	Metric	Open	Standard	Inner Ø d1

The FDA-compliant for the food and pharmaceutical industry

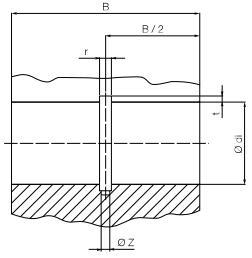
78) According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

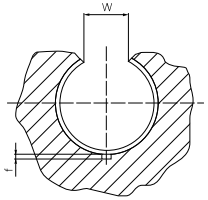
Dimensions [mm]

d1	d1 tolerance78)	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.000 +0.020	12	28	3.0	0.8	2.5	1.08	A180UMO-01-10
12	+0.030 +0.070	14	31	3.0	0.8	3.0	1.47	A180UMO-01-12
16	+0.030 +0.070	18	35	3.5	0.8	3.5	2.16	A180UMO-01-16
20	+0.030 +0.070	23	44	5.0	0.8	3.5	4.80	A180UMO-01-20
25	+0.030 +0.070	28	57	5.0	0.8	4.0	8.07	A180UMO-01-25
30	+0.040 +0.085	34	67	5.0	0.8	4.0	14.65	A180UMO-01-30
35	+0.040 +0.085	39	69	5.0	0.8	4.0	17.84	A180UMO-01-40
40	+0.040 +0.085	44	79	6.0	1.3	5.0	22.70	A180UMO-01-50

Housing hole for A180UMO-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	W	r +0.5	t +0.05	f +0.1	Z +0.2	Part No.
10	12	29	7.3	3.0	1.0	1.0	2.6	A180UMO-01-10
12	14	32	9.0	3.0	1.0	1.5	3.1	A180UMO-01-12
16	18	36	11.6	3.5	1.0	1.7	3.6	A180UMO-01-16
20	23	45	12.0	5.0	1.0	2.0	3.6	A180UMO-01-20
25	28	58	14.5	5.0	1.0	2.0	4.1	A180UMO-01-25
30	34	68	16.6	5.0	1.0	2.0	4.1	A180UMO-01-30
40	44	80	21.0	6.0	1.5	2.5	5.1	A180UMO-01-40
50	55	100	25.5	7.0	1.5	2.5	6.1	A180UMO-01-50





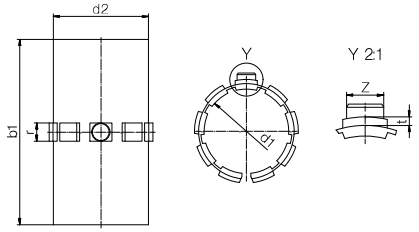
Can be combined with:


OJUM-01/-03
TJUM-01/-03


OJUM-06/-06-LL

drylin® R liners | Product range

Long, closed design for round shafts – made from iglidur® A160 (compliant with Regulation (EU) No. 10/2011 and FDA guidelines)



Order key

Type	Size

A160 U M-01-10

iglidur® A160	Liner	Metric	Standard	Inner Ø d1

Compliant with Regulation (EU) No. 10/2011 and FDA guidelines for longer service life on hardened stainless steel shafts

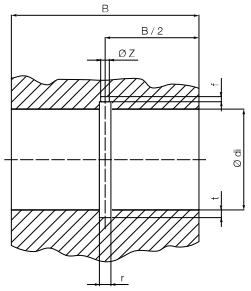
78) According to igus® testing method ▶ Page 1146
Please note: Installation instructions ▶ Page 1079
Min. –50°C
Max. +90°C

Dimensions [mm]

d1	d1 tolerance[78]	d2	b1	r	t	Z	Weight [g]	Part No.
10	+0.03 +0.07	12	28	3.0	0.8	2.5	0.7	A160UM-01-10
12	+0.03 +0.07	14	31	3.0	0.8	3.0	1.0	A160UM-01-12
16	+0.03 +0.07	18	35	3.5	0.8	3.5	1.5	A160UM-01-16
20	+0.03 +0.07	23	44	5.0	0.8	3.5	3.3	A160UM-01-20
25	+0.03 +0.07	28	57	5.0	0.8	4.0	5.4	A160UM-01-25
30	+0.04 +0.09	34	67	5.0	0.8	4.0	9.9	A160UM-01-30
40	+0.04 +0.09	44	79	6.0	1.3	5.0	17.3	A160UM-01-40
50	+0.05 +0.15	55	99	7.0	1.3	6.0	36.3	A160UM-01-50

Housing hole for A160UM-01 | Dimensions [mm]

Shaft Ø	di H7	B h10	r +0.05	t +0.1	f +0.5	Z +0.2	Part No.
10	12	29	3.0	1.0	1.0	2.6	A160UM-01-10
12	14	32	3.0	1.0	1.5	3.1	A160UM-01-12
16	18	36	3.5	1.0	1.7	3.6	A160UM-01-16
20	23	45	5.0	1.0	2.0	3.6	A160UM-01-20
25	28	58	5.0	1.0	2.0	4.1	A160UM-01-25
30	34	68	5.0	1.0	2.0	4.1	A160UM-01-30
40	44	80	6.0	1.5	2.5	5.1	A160UM-01-40
50	55	100	7.0	1.5	2.5	6.1	A160UM-01-50



Can be combined with:


RJUM-01/-03
TJUM-01/-03

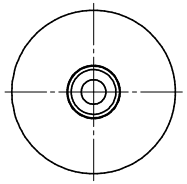

RJUM-06/-06-LL

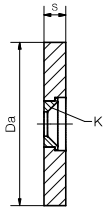

FJUM-01/-02

My sketches

drylin® R sliding discs | Product range

Large force displacement on different surfaces





Order key

Type	Size
RSD J-40-06	

Slide disc	iglidur® J	Outer Ø	Width

- Made from the high-performance plastic iglidur® J
- Low coefficient of friction
- Screw through the reinforced hole in the middle for a firm hold

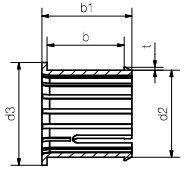
Min. –50°C
Max. +90°C

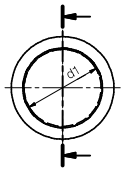
Dimensions [mm]

Outer Ø Da	Wear limit	Width s	K For countersunk screw	Max. static load capacity [N]	Part No.
40	1.5	6 ± 0.05	M6	28,500	**RSDJ-40-06**
60	2.5	8 ± 0.05	M8	66,000	**RSDJ-60-08**
80	2.5	8 ± 0.05	M8	120,000	**RSDJ-80-08**

drylin® R clip in | Product range

Clip-on liners





Order key

Type	Size
J U C M-1216-16	

iglidur® J	Liner	Clip-on	Metric	Inner Ø d1	Outer Ø d2	Length b

- Quick installation by hand for sheet thicknesses of 12 to 30mm
- No locating spigot required

[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Min. –50°C
Max. +90°C

Dimensions [mm]

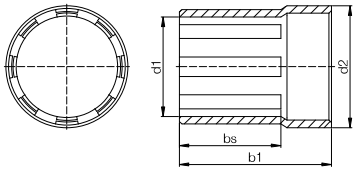
d1	d2	d3	b +0.05 / +0.25	b1	t	Part No.
12	16	20	16	20.5	0.8	**JUCM-1216-16**
14	18	22	18	22.5	0.8	**JUCM-1418-18**
15	17	22	15	18.0	0.8	**JUCM-1517-15** New
16	20	25	20	24.5	0.8	**JUCM-1620-20**
18	22	26	20	24.5	0.8	**JUCM-1822-20**
20	24	30	25	30.0	1.0	**JUCM-2024-25**
22	27	34	27	32.0	1.0	**JUCM-2227-27**
22	27	32	34	39.5	1.0	**JUCM-2227-34**
25	29	35	30	35.5	1.0	**JUCM-2529-30**
30	34	40	30	35.0	1.2	**JUCM-3034-30**

Technical data

Part No.	d1 tolerance[78] [mm]	Fmax. dynamic[82] p = 5MPa [N]	Fmax. static[82] p = 35MPa [N]	Weight [g]
JUCM-1216-16	+0.04 +0.10	320	1,600	2.5
JUCM-1418-18	+0.04 +0.10	440	2,200	2.9
JUCM-1517-15	+0.04 +0.10	380	1,900	1.4
JUCM-1620-20	+0.04 +0.10	560	2,800	3.9
JUCM-1822-20	+0.04 +0.10	630	3,150	4.2
JUCM-2024-25	+0.04 +0.12	880	4,400	5.8
JUCM-2227-27	+0.04 +0.12	1,000	5,000	9.4
JUCM-2227-34	+0.04 +0.12	1,300	6,500	10.3
JUCM-2529-30	+0.04 +0.12	1,300	6,500	8.6
JUCM-3034-30	+0.04 +0.12	1,500	7,500	10.0

drylin® R press-fit bearings | Product range

Made from iglidur® L100



Order key

Type	Size
W L M	-0608-10

iglidur® L100	L1 series	Metric	Inner Ø d1	Outer Ø d2	Length

- Extreme wear resistance
- Low coefficient of friction

80) Measured with plug gauge

Please note: Installation instructions ▶ Page 1079

Material properties ▶ Page 1654

Min. –40°C

Max. +100°C

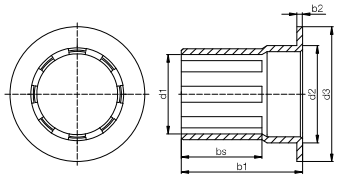
Dimensions [mm]

d1	d1 tolerance80)	d2	b1	bs	Part No.
6	+0.000 +0.040	8	10	6	**WLM-0608-10**
8	+0.000 +0.050	10	12	8	**WLM-0810-12**
10	+0.000 +0.050	12	14.5	10	**WLM-1012-14**
10	+0.000 +0.050	12	16	10	**WLM-1012-16**
12	+0.000 +0.050	14	16	10	**WLM-1214-16**
12	+0.000 +0.050	14	25	15	**WLM-1214-25**
16	+0.000 +0.050	18	18	10	**WLM-1618-18**
16	+0.000 +0.050	18	26	16	**WLM-1618-26**
20	+0.000 +0.060	23	22.5	12.5	**WLM-2023-22**
20	+0.000 +0.060	23	30	20	**WLM-2023-30**
22	+0.000 +0.060	25	30	20	**WLM-2225-30**
25	+0.000 +0.060	28	29	19	**WLM-2528-29**
25	+0.000 +0.060	28	35	25	**WLM-2528-35**
30	+0.000 +0.060	34	34	24	**WLM-3034-34**
30	+0.000 +0.060	34	40	30	**WLM-3034-40**
40	+0.000 +0.060	44	40	30	**WLM-4044-40**
40	+0.000 +0.060	44	50	40	**WLM-4044-50**
50	+0.000 +0.070	55	50	40	**WLM-5055-50**
50	+0.000 +0.070	55	60	50	**WLM-5055-60**

drylin® R press-fit bearings | Product range

Made from iglidur® L100

drylin® R shaft guides



Order key

Type	Size
W L F M	-1214-15

iglidur® L100	L1 series	With flange	Metric	Inner Ø d1	Outer Ø d2	Length

- Extreme wear resistance
- Low coefficient of friction

80) Measured with plug gauge

Please note: Installation instructions ▶ Page 1079

Material properties ▶ Page 1654

Min. –40°C

Max. +100°C

Dimensions [mm]

d1	d1 tolerance80)	d2	d3	b1	b2	bs	Part No.
12	+0.000 +0.050	14	20	15.0	1.0	9	**WLFM-1214-15**
16	+0.000 +0.050	18	24	16.0	1.0	10	**WLFM-1618-16**
20	+0.000 +0.060	23	30	16.5	1.5	10	**WLFM-2023-16**
25	+0.000 +0.060	28	35	21.5	1.5	11	**WLFM-2528-21**
30	+0.000 +0.060	34	42	27.0	2.0	15	**WLFM-3034-27**
40	+0.000 +0.060	44	52	32.0	2.0	20	**WLFM-4044-32**
50	+0.000 +0.070	55	63	37.5	2.5	25	**WLFM-5055-37**

drylin® R solid plastic bearings | Product range

Standard design made from iglidur® J (the all-rounder)

Order key

Type	Size
R J	M-01-10

Closed | iglidur® J | Metric | Standard | Inner Ø d1

- Assembly by press-fitting
- Secured by circlips

Min. –20°C
Max. +60°C

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
83) Applies by room temperature: press-fit decrease with time depending on the temperature
Please note: Installation instructions ▶ Page 1079
Imperial dimensions ▶ Page 1613

Dimensions [mm]

d1	d2	B	B1	s	dn	Part No.
8	16	25	16.2	1.10	15.2	**RJM-01-08**
10	19	29	21.6	1.30	17.5	**RJM-01-10**
12	22	32	22.6	1.30	20.5	**RJM-01-12**
16	26	36	24.6	1.30	24.2	**RJM-01-16**
20	32	45	31.2	1.60	29.6	**RJM-01-20**
25	40	58	43.7	1.85	36.5	**RJM-01-25**
30	47	68	51.7	1.85	43.5	**RJM-01-30**
40	62	80	60.3	2.15	57.8	**RJM-01-40**

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 2.5MPa	Fmax. static82) p = 17.5MPa	Weight	Press-fit force83)
	[mm]	[N]	[N]	[g]	[N]
RJM-01-08	+0.025 +0.061	250	1,750	4	400
RJM-01-10	+0.025 +0.061	363	2,538	7	700
RJM-01-12	+0.032 +0.075	480	3,360	9	1,300
RJM-01-16	+0.032 +0.075	720	5,040	13	1,100
RJM-01-20	+0.040 +0.092	1,125	7,875	24	1,500
RJM-01-25	+0.040 +0.092	1,813	12,688	47	3,500
RJM-01-30	+0.040 +0.092	2,550	17,850	72	4,500
RJM-01-40	+0.050 +0.112	4,000	28,000	127	4,200

Can be combined with:


RQA-04


RTA-04


RGA-04


RGAS-04

drylin® R solid plastic bearings | Product range

Standard design, precise, made from iglidur® J (the all-rounder)

Order key

Type	Size
R J M P	-01-10

Closed | iglidur® J | Metric | Precise | Standard | Inner Ø d1

- Easy assembly by soft press-fit
- Reduced bearing clearance
- Secured by circlips

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Min. –20°C
Max. +60°C
Imperial dimensions ▶ Page 1613

Dimensions [mm]

d1	d2	B	B1	s	dn	Part No.
6	12	19	13.5	1.10	11.5	**RJMP-01-06**
8	16	25	16.2	1.10	15.2	**RJMP-01-08**
10	19	29	21.6	1.30	17.5	**RJMP-01-10**
12	22	32	22.6	1.30	20.5	**RJMP-01-12**
16	26	36	24.6	1.30	24.2	**RJMP-01-16**
20	32	45	31.2	1.60	29.6	**RJMP-01-20**
25	40	58	43.7	1.85	36.5	**RJMP-01-25**
30	47	68	51.7	1.85	43.5	**RJMP-01-30**

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 2.5MPa	Fmax. static82) p = 17.5MPa	Weight
	[mm]	[N]	[N]	[g]
RJMP-01-06	+0.000 +0.030	200	1,400	2
RJMP-01-08	+0.000 +0.040	250	1,750	4
RJMP-01-10	+0.000 +0.040	363	2,538	7
RJMP-01-12	+0.000 +0.040	480	3,360	9
RJMP-01-16	+0.000 +0.040	720	5,040	13
RJMP-01-20	+0.000 +0.040	1,125	7,875	24
RJMP-01-25	+0.000 +0.050	1,813	12,688	47
RJMP-01-30	+0.000 +0.050	2,550	17,850	72

Can be combined with:


RQA-04


RTA-04


RGA-04


RGAS-04

drylin® R solid plastic bearings | Product range

Linear plain bearings with Japanese dimensions made from iglidur® J4

Order key

Type					Size
R	J	4	J	P	-01-10
Closed	iglidur® J4	Japan standard	Precise	Standard	Inner Ø d1

- Alternative to ball bearings with Japanese dimension
- Quickly assembled
- Secured by circlips

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Material properties ▶ Page 1652

Min. –20°C
Max. +60°C

Dimensions [mm]

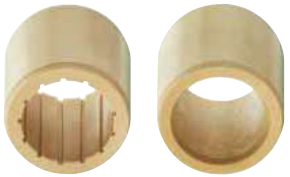
d1	d2	B	B1	s	dn	Part No.
8	15	24	17.5	1.1	14.3	RJ4JP-01-08
10	19	29	22.0	1.3	18.0	RJ4JP-01-10
12	21	30	23.0	1.3	20.0	RJ4JP-01-12
16	28	37	26.5	1.6	26.6	RJ4JP-01-16
20	32	42	30.5	1.6	30.3	RJ4JP-01-20
25	40	59	41.1	1.85	37.5	RJ4JP-01-25
30	45	64	44.6	1.85	42.5	RJ4JP-01-30

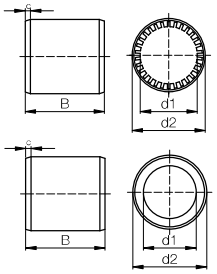
Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 5MPa	Fmax. static82) p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJ4JP-01-08	+0.000 +0.040	200	800	2
RJ4JP-01-10	+0.000 +0.040	300	1,200	6
RJ4JP-01-12	+0.000 +0.040	400	1,600	8
RJ4JP-01-16	+0.000 +0.040	700	2,800	16
RJ4JP-01-20	+0.000 +0.040	1,000	4,000	23
RJ4JP-01-25	+0.000 +0.050	1,550	6,500	47
RJ4JP-01-30	+0.000 +0.050	2,200	8,500	72

drylin® R solid plastic bearings | Product range

Low-cost linear plain bearings made from iglidur® J260





Order key

Type					Size
R	J260	U	M	-02-12	
Closed	iglidur® J260	Grooved	Metric	Compact	Inner Ø d1

- 2 variations: RJ260M (with plain design) and RJ260UM (grooved structure)

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Min. –20°C
Max. +60°C

Dimensions [mm]

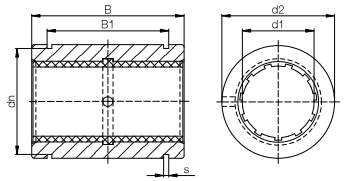
d1	d2	B	C	Part No.
12	19	28	1.5x15°	RJ260UM-02-12
16	24	30	1.5x15°	RJ260UM-02-16
20	28	30	2.0x15°	RJ260UM-02-20
25	35	40	2.0x15°	RJ260UM-02-25

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 2.5MPa	Fmax. static82) p = 17.5MPa	Weight
	[mm]	[N]	[N]	[g]
RJ260UM-02-12	+0.035 +0.080	420	2,940	6.2
RJ260UM-02-16	+0.035 +0.080	600	4,200	9.7
RJ260UM-02-20	+0.040 +0.095	750	5,250	11.7
RJ260UM-02-25	+0.040 +0.095	1,250	8,750	22.8

drylin® R linear plain bearings | Product range

Closed, anodised aluminium adapter



Order key

Type	Size
R J U M	-01-10

Closed | iglidur® J | Liner | Metric | Standard | Inner Ø d1

- Secured by circlips

78) According to igus® testing method ▶ Page 1146
81) Ø < 10mm use press-fitted sleeve plain bearings
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

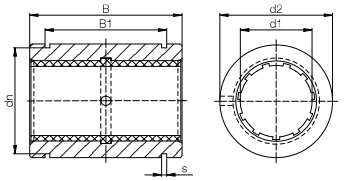
d1	d2	B	B1	s	dn	Part No.
	H7	h10	H10	H10	h10	
5	12	22	14.2	1.10	11.5	RJZM-01-05[81]
6	12	22	14.2	1.10	11.5	RJZM-01-06[81]
8	16	25	16.2	1.10	15.2	RJZM-01-08[81]
10	19	29	21.6	1.30	17.5	RJUM-01-10
12	22	32	22.6	1.30	20.5	RJUM-01-12
16	26	36	24.6	1.30	24.2	RJUM-01-16
20	32	45	31.2	1.60	29.6	RJUM-01-20
25	40	58	43.7	1.85	36.5	RJUM-01-25
30	47	68	51.7	1.85	43.5	RJUM-01-30
40	62	80	60.3	2.15	57.8	RJUM-01-40
50	75	100	77.3	2.65	70.5	RJUM-01-50
60	90	125	101.7	3.15	86.5	RJUM-01-60

Technical data

Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa	Fmax. static[82] p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJZM-01-05[81]	+0.025 +0.060	525	3,675	5
RJZM-01-06[81]	+0.025 +0.060	525	3,675	5
RJZM-01-08[81]	+0.032 +0.070	960	6,720	9
RJUM-01-10	+0.030 +0.088	725	5,075	14
RJUM-01-12	+0.030 +0.088	960	6,720	21
RJUM-01-16	+0.030 +0.088	1,440	10,080	28
RJUM-01-20	+0.030 +0.091	2,250	15,750	49
RJUM-01-25	+0.030 +0.091	3,625	25,375	108
RJUM-01-30	+0.040 +0.110	5,100	35,700	162
RJUM-01-40	+0.040 +0.115	8,000	56,000	334
RJUM-01-50	+0.050 +0.130	9,000	87,500	579
RJUM-01-60	+0.050 +0.140	12,000	120,000	1,070

drylin® R linear plain bearings | Product range

Closed, anodised aluminium adapter, precise



Order key

Type	Size
R J U M	-11-10

Closed | iglidur® J | Liner | Metric | Precise | Inner Ø d1

- Max. bearing clearance reduced by 50%
- Secured by circlips

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	d2	B	B1	s	dn	Part No.
	H7	h10	H10	H10	h10	
10	19	29	21.6	1.30	17.5	RJUM-11-10
12	22	32	22.6	1.30	20.5	RJUM-11-12
16	26	36	24.6	1.30	24.2	RJUM-11-16
20	32	45	31.2	1.60	29.6	RJUM-11-20
25	40	58	43.7	1.85	36.5	RJUM-11-25
30	47	68	51.7	1.85	43.5	RJUM-11-30
40	62	80	60.3	2.15	57.8	RJUM-11-40
50	75	100	77.3	2.65	70.5	RJUM-11-50

Technical data

Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa	Fmax. static[82] p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJUM-11-10	+0.000 +0.058	725	5,075	14
RJUM-11-12	+0.000 +0.058	960	6,720	21
RJUM-11-16	+0.000 +0.058	1,440	10,080	28
RJUM-11-20	+0.000 +0.061	2,250	15,750	49
RJUM-11-25	+0.000 +0.061	3,625	25,375	108
RJUM-11-30	+0.000 +0.075	5,100	35,700	162
RJUM-11-40	+0.000 +0.080	8,000	56,000	334
RJUM-11-50	+0.000 +0.090	12,500	87,500	579

Can be combined with:


RQA-01


RTA-01


RGA-01


RGAS-01

Available with drylin® liners (optional: J200/A180):

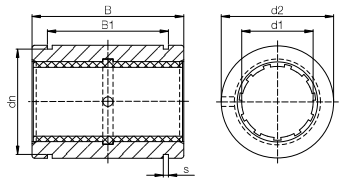

J


E7


X

drylin® R linear plain bearings | Product range

Closed stainless steel adapter made of stainless steel 303



Order key

Type					Size	Material
R	J	U	M-01-12	-	ES	
Closed	iglidur® J	Liner	Metric	Standard	Inner Ø d1	Stainless steel

● Secured by circlips

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	d2	B	B1	s	dn	Part No.
	H7	h10	H10	H10	h10	
12	22	32	22.6	1.30	20.5	RJUM-01-12-ES
16	26	36	24.6	1.30	24.2	RJUM-01-16-ES
20	32	45	31.2	1.60	29.6	RJUM-01-20-ES
25	40	58	43.7	1.85	36.5	RJUM-01-25-ES
30	47	68	51.7	1.85	43.5	RJUM-01-30-ES

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 5MPa	Fmax. static82) p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJUM-01-12-ES	+0.030 +0.088	960	6,720	60
RJUM-01-16-ES	+0.030 +0.088	1,440	10,080	84
RJUM-01-20-ES	+0.030 +0.091	2,250	15,750	147
RJUM-01-25-ES	+0.030 +0.091	3,625	25,375	324
RJUM-01-30-ES	+0.040 +0.110	5,100	35,700	486

Available with drylin® liners (optional: J200/A180):

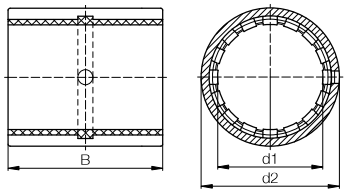

J


E7


X

drylin® R linear plain bearings | Product range

Closed, anodised aluminium adapter, short design



Order key

Type					Size
R	J	U	M-02-10		
Closed	iglidur® J	Liner	Metric	Compact	Inner Ø d1

● Also available as a reduced clearance version RJUM-12 (Ø 10–50mm)

78) According to igus® testing method ▶ Page 1146
81) Ø < 10mm use press-fitted sleeve bearings
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

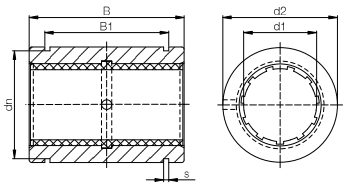
d1	d2	B	Part No.
	H7	h10	
6	12	22	RJZM-02-06[81]
8	15	24	RJZM-02-08[81]
10	17	26	RJUM-02-10
12	19	28	RJUM-02-12
16	24	30	RJUM-02-16
20	28	30	RJUM-02-20
25	35	40	RJUM-02-25
30	40	50	RJUM-02-30
40	52	60	RJUM-02-40
50	62	70	RJUM-02-50

Technical data

Part No.	Housing hole	d1 tolerance78)	Fmax. dynamic82) p = 5MPa	Fmax. static82) p = 35MPa	Weight
	Ø H7 [mm]	[mm]	[N]	[N]	[g]
RJZM-02-06[81]	12	+0.032 +0.070	600	4,200	4
RJZM-02-08[81]	15	+0.032 +0.070	650	4,550	6
RJUM-02-10	17	+0.030 +0.088	650	4,550	8
RJUM-02-12	19	+0.030 +0.088	840	5,880	10
RJUM-02-16	24	+0.030 +0.088	1,200	8,400	17
RJUM-02-20	28	+0.030 +0.091	1,500	10,500	18
RJUM-02-25	35	+0.030 +0.091	2,500	17,500	42
RJUM-02-30	40	+0.040 +0.110	3,750	26,250	56
RJUM-02-40	52	+0.040 +0.115	6,000	42,000	113
RJUM-02-50	62	+0.050 +0.130	8,750	61,250	147

drylin® R linear plain bearings | Product range

Closed, anodised aluminium adapters with iglidur® E7 liner



Order key

Type	Size
R E7 U M	-01-10

Closed | iglidur® E7 | Liner | Metric | Standard | Inner Ø d1

● Secured by circlips

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	d2	B	B1	s	dn	Part No.
	H7	h10	H10	H10	h10	
10	19	29	21.6	1.30	17.5	**RE7UM-01-10**
12	22	32	22.6	1.30	20.5	**RE7UM-01-12**
16	26	36	24.6	1.30	24.2	**RE7UM-01-16**
20	32	45	31.2	1.60	29.6	**RE7UM-01-20**
25	40	58	43.7	1.85	36.5	**RE7UM-01-25**
30	47	68	51.7	1.85	43.5	**RE7UM-01-30**
40	62	80	60.3	2.15	57.8	**RE7UM-01-40**
50	75	100	77.3	2.65	70.5	**RE7UM-01-50**
60	90	125	101.7	3.15	86.5	**RE7UM-01-60**

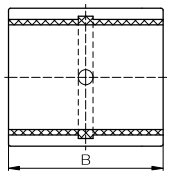
Technical data

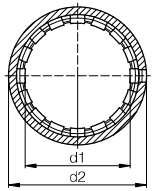
Part No.	d1 tolerance 78)	F max. dynamic 82) p = 2.5MPa	F max. static 82) p = 18MPa	Weight
	[mm]	[N]	[N]	[g]
RE7UM-01-10	+0.030 +0.088	360	2,610	14
RE7UM-01-12	+0.030 +0.088	480	3,450	21
RE7UM-01-16	+0.030 +0.088	720	5,180	28
RE7UM-01-20	+0.030 +0.091	1,120	8,100	49
RE7UM-01-25	+0.030 +0.091	1,810	13,050	108
RE7UM-01-30	+0.040 +0.110	2,550	18,360	162
RE7UM-01-40	+0.040 +0.115	4,000	28,800	334
RE7UM-01-50	+0.050 +0.180	4,500	45,000	579
RE7UM-01-60	+0.050 +0.190	6,000	61,700	1,070

drylin® R shaft guides

drylin® R linear plain bearings | Product range

Closed, anodised aluminium adapters, short design with iglidur® E7 liner





Order key

Type	Size
R E7 U M	-02-10

Closed | iglidur® E7 | Liner | Metric | Compact | Inner Ø d1

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

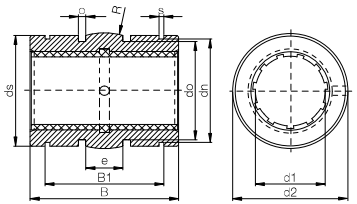
d1	d2	B	Part No.
	H7	h10	
10	17	26	**RE7UM-02-10**
12	19	28	**RE7UM-02-12**
16	24	30	**RE7UM-02-16**
20	28	30	**RE7UM-02-20**
25	35	40	**RE7UM-02-25**
30	40	50	**RE7UM-02-30**
40	52	60	**RE7UM-02-40**
50	62	70	**RE7UM-02-50**

Technical data

Part No.	Housing hole	d1 tolerance 78)	F max. dynamic 82) p = 2.5MPa	F max. static 82) p = 18MPa	Weight
	Ø H7 [mm]	[mm]	[N]	[N]	[g]
RE7UM-02-10	17	+0.030 +0.088	325	2,340	8
RE7UM-02-12	19	+0.030 +0.088	420	3,020	10
RE7UM-02-16	24	+0.030 +0.088	600	4,320	17
RE7UM-02-20	28	+0.030 +0.091	750	5,400	18
RE7UM-02-25	35	+0.030 +0.091	1,250	9,000	42
RE7UM-02-30	40	+0.040 +0.110	1,875	13,500	56
RE7UM-02-40	52	+0.040 +0.115	3,000	21,600	113
RE7UM-02-50	62	+0.050 +0.180	4,375	31,500	147

drylin® R linear plain bearings | Product range

Closed aluminium adapter (floating bearing)



Order key

Type						Size
R	J	U	M-	03	-	10
Closed	iglidur® J	Liner	Metric	Self-aligning		Inner Ø d1

- With reduced outer diameter, spherical area on the outer diameter, O-rings for elastic seating and hard-anodised surface

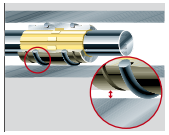
78) According to igus® testing method ▶ Page 1146
81) Ø < 10mm use press-fitted sleeve plain bearings
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Floating bearing ▶ Page 1078
Imperial dimensions ▶ Page 1615

Dimensions [mm]

d1	d2 H7	B h10	B1 H10	s H10	dn h10	ds h10	do	o +0.1	e	R	Part No.
8	15.8	24.9	16.4	1.10	15.0	15.5	13.2	1.86	5.0	20.0	RJZM-03-08[81]
10	18.8	28.9	21.8	1.30	17.5	18.5	15.4	1.86	5.0	13.0	RJUM-03-10
12	21.8	31.9	22.8	1.30	20.5	21.5	18.4	1.86	6.0	18.0	RJUM-03-12
16	25.8	35.9	24.9	1.30	24.2	25.5	20.4	2.86	8.0	32.0	RJUM-03-16
20	31.8	44.8	31.5	1.60	29.6	31.5	26.4	2.86	10.0	50.0	RJUM-03-20
25	39.8	57.8	44.1	1.85	36.5	39.0	34.4	2.86	12.5	39.0	RJUM-03-25
30	46.7	67.8	52.1	1.85	43.5	46.0	41.4	2.86	15.0	57.0	RJUM-03-30
40	61.7	79.8	60.9	2.15	57.8	61.0	56.4	2.86	20.0	100.0	RJUM-03-40
50	74.7	99.8	78.0	2.65	70.5	74.0	69.4	2.86	25.0	157.0	RJUM-03-50

Technical data

Part No.	Housing hole Ø H7 [mm]	d1 tolerance[78] [mm]	F max. dynamic[82] p = 5MPa [N]	Fmax. static[82] p = 35MPa [N]	Weight [g]
RJZM-03-08[81]	16	+0.032 +0.070	960	6,720	8
RJUM-03-10	19	+0.030 +0.088	725	5,075	11
RJUM-03-12	22	+0.030 +0.088	960	6,720	17
RJUM-03-16	26	+0.030 +0.088	1,440	10,080	23
RJUM-03-20	32	+0.030 +0.091	2,250	15,750	44
RJUM-03-25	40	+0.030 +0.091	3,625	25,375	92
RJUM-03-30	47	+0.040 +0.110	5,100	35,700	145
RJUM-03-40	62	+0.040 +0.115	8,000	56,000	311
RJUM-03-50	75	+0.050 +0.150	12,500	87,500	542



Can be combined with:


RQA-03


RTA-03


RGA-03


RGAS-03

Available with drylin® liners (optional: J200/A180):

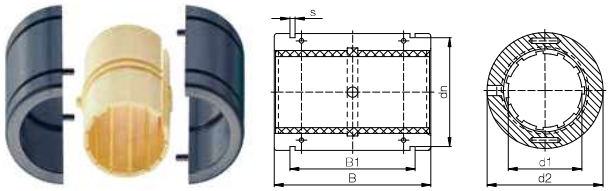

J


E7


X

drylin® R linear plain bearings | Product range

Split anodised aluminium adapter



Order key

Type						Size
T	J	U	M-	01	-	10
Open	iglidur® J	Liner	Metric	Standard		Inner Ø d1

- Quick replacement of the liner without removing the shaft

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Imperial dimensions ▶ Page 1616

Dimensions [mm]

d1	d2 H7	B h10	B1 H10	s H10	dn h10	Part No.
10	19 –0.020 –0.040	29	21.6	1.30	17.5	TJUM-01-10
12	22 –0.020 –0.040	32	22.6	1.30	20.5	TJUM-01-12
16	26 –0.020 –0.040	36	24.6	1.30	24.2	TJUM-01-16
20	32 –0.020 –0.045	45	31.2	1.60	29.6	TJUM-01-20
25	40 –0.030 –0.055	58	43.7	1.85	36.5	TJUM-01-25
30	47 –0.030 –0.055	68	51.7	1.85	43.5	TJUM-01-30
40	62 –0.030 –0.060	80	60.3	2.15	57.8	TJUM-01-40
50	75 –0.030 –0.060	100	77.3	2.65	70.5	TJUM-01-50

Technical data

Part No.	d1 tolerance[78] [mm]	Fmax. dynamic[82] p = 5MPa [N]	Fmax. static[82] p = 35MPa [N]	Weight [g]
TJUM-01-10	+0.030 +0.092	725	5,075	14
TJUM-01-12	+0.030 +0.097	960	6,720	19
TJUM-01-16	+0.030 +0.097	1,440	10,080	27
TJUM-01-20	+0.030 +0.103	2,250	15,750	49
TJUM-01-25	+0.030 +0.103	3,625	25,375	106
TJUM-01-30	+0.040 +0.124	5,100	35,700	166
TJUM-01-40	+0.040 +0.124	8,000	56,000	347
TJUM-01-50	+0.050 +0.196	12,500	87,500	577

Can be combined with:


RQA-01


RTA-01


RGA-01


RGAS-01

Available with drylin® liners (optional: J200/A180):

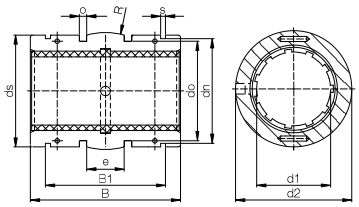

J


E7


X

drylin® R linear plain bearings | Product range

Split aluminium adapter (floating bearing)



Order key

Type						Size
T	J	U	M-	03	-	10
Open	iglidur® J	Liner	Metric	Self-aligning		Inner Ø d1

- Split aluminium adapter with spherical middle area for automatic compensation of misalignments and O-rings for elastic seating

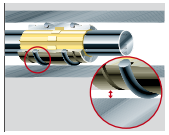
78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Floating bearing ▶ Page 1078
Imperial dimensions ▶ Page 1616

Dimensions [mm]

d1	d2	B	B1	s	dn	ds	do	o	e	R	Part No.
	H7	h10	H10	H10	h10	h10		+0.1			
10	19 –0.020 –0.040	28.9	21.8	1.30	17.5	18.5	15.4	1.86	5.0	13.0	TJUM-03-10
12	22 –0.020 –0.040	31.9	22.8	1.30	20.5	21.5	18.4	1.86	6.0	18.0	TJUM-03-12
16	26 –0.020 –0.040	35.9	24.9	1.30	24.2	25.5	20.4	2.86	8.0	32.0	TJUM-03-16
20	32 –0.020 –0.045	44.8	31.5	1.60	29.6	31.5	26.4	2.86	10.0	50.0	TJUM-03-20
25	40 –0.030 –0.055	57.8	44.1	1.85	36.5	39.0	34.4	2.86	12.5	39.0	TJUM-03-25
30	47 –0.030 –0.055	67.8	52.1	1.85	43.5	46.0	41.4	2.86	15.0	57.0	TJUM-03-30
40	62 –0.030 –0.060	79.8	60.9	2.15	57.8	61.0	56.4	2.86	20.0	100.0	TJUM-03-40
50	75 –0.030 –0.060	99.8	78.0	2.65	70.5	74.0	69.4	2.86	25.0	157.0	TJUM-03-50

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 5MPa	Fmax. static82) p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
TJUM-03-10	+0.030 +0.092	725	5,075	11
TJUM-03-12	+0.030 +0.097	960	6,720	17
TJUM-03-16	+0.030 +0.097	1,440	10,080	23
TJUM-03-20	+0.030 +0.103	2,250	15,750	44
TJUM-03-25	+0.030 +0.103	3,625	25,375	92
TJUM-03-30	+0.040 +0.124	5,100	35,700	145
TJUM-03-40	+0.040 +0.124	8,000	56,000	311
TJUM-03-50	+0.050 +0.196	12,500	87,500	542



Can be combined with:


RQA-03


RTA-03


RGA-03


RGAS-03

Available with drylin® liners (optional: J200/A180):

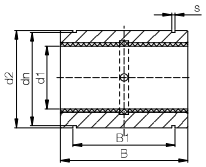

J

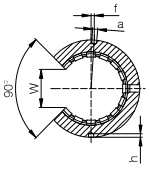

E7

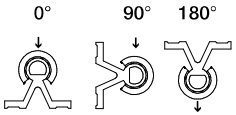

X

drylin® R linear plain bearings | Product range

Open, anodised aluminium adapters – for supported shafts







Order key

Type						Size
O	J	U	M-	01	-	10
Open	iglidur® J	Liner	Metric	Standard		Inner Ø d1

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Imperial dimensions ▶ Page 1614

Dimensions [mm]

d1	d2	B	W	a	dn	B1	s	f	h	Part No.
	H7	h10	–1	+0.1	h10	H10	H10	±0.2	-0.5	
10	19	29	7.3	0.0	17.5	21.6	1.30	0	1.2	OJUM-01-10
12	22	32	9.0	3.0	20.5	22.6	1.30	1.33 (7°)	1.2	OJUM-01-12
16	26	36	11.6	2.2	24.2	24.6	1.30	0	1.2	OJUM-01-16
20	32	45	12.0	2.2	29.6	31.2	1.60	0	1.2	OJUM-01-20
25	40	58	14.5	3.0	36.5	43.7	1.85	–1.5 (–4.3°)	1.5	OJUM-01-25
30	47	68	16.6	3.0	43.5	51.7	1.85	2 (4.9°)	2.0	OJUM-01-30
40	62	80	21.0	3.0	57.8	60.3	2.15	1.5 (2.8°)	2.0	OJUM-01-40
50	75	100	25.5	5.0	70.5	77.3	2.65	2.5 (3.8°)	2.0	OJUM-01-50

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 5MPa			Fmax. static82) p = 35MPa			Weight
		0°	90°	180°	0°	90°	180°	[g]
OJUM-01-10	+0.030 +0.088	725	500	196	5,075	3,500	1,370	11
OJUM-01-12	+0.030 +0.088	960	635	240	6,720	4,445	1,680	15
OJUM-01-16	+0.030 +0.088	1,440	990	396	10,080	6,943	2,772	21
OJUM-01-20	+0.030 +0.091	2,250	1,800	900	15,750	12,600	6,300	42
OJUM-01-25	+0.030 +0.091	3,625	2,953	1,523	25,375	20,670	10,658	70
OJUM-01-30	+0.040 +0.110	5,100	4,250	2,278	35,700	29,735	15,946	132
OJUM-01-40	+0.040 +0.115	8,000	6,810	3,800	56,000	47,660	26,660	278
OJUM-01-50	+0.050 +0.150	12,500	10,750	6,125	87,500	75,265	42,875	479

Can be combined with:


RQA-01


RTA-01


RGA-01


RGAS-01

Available with drylin® liners (optional: J200/A180):

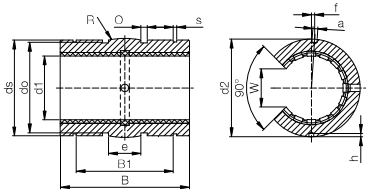

J

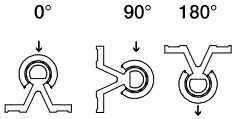

E7

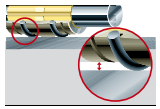

X

drylin® R linear plain bearings | Product range

Open, anodised aluminium adapter, floating bearing







● With reduced outer diameter, spherical area on the outer diameter, O-rings for elastic seating and hard-anodised surface

Order key

Type	Size
O J U M	-03-10

Open	igliduR® J	Liner	Metric	Self-aligning	Inner Ø d1

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Imperial dimensions ▶ Page 1614

Dimensions [mm]

d1	d2	ds	e	o	do	B1	s	B	R	W	a	f	h	Part No.
	H7	h10		+0.1		H10	H10	h10		–1	+0.1	±0.2	–0.5	
10	18.8	18.5	5.0	1.86	15.4	21.8	1.30	28.9	13.0	7.3	0.0	0	1.2	**OJUM-03-10**
12	21.8	21.5	6.0	1.86	18.4	22.8	1.30	31.9	18.0	9.0	3.0	1.33 (7°)	1.2	**OJUM-03-12**
16	25.8	25.5	8.0	2.86	20.4	24.9	1.30	35.9	32.0	11.6	2.2	0	1.2	**OJUM-03-16**
20	31.8	31.5	10.0	2.86	26.4	31.5	1.60	44.8	50.0	12.0	2.2	0	1.2	**OJUM-03-20**
25	39.8	39.0	12.5	2.86	34.4	44.1	1.85	57.8	39.0	14.5	3.0	–1.5 (–4.3°)	1.5	**OJUM-03-25**
30	46.7	46.0	15.0	2.86	41.4	52.1	1.85	67.8	57.0	16.6	3.0	2 (4.9°)	2	**OJUM-03-30**
40	61.7	61.0	20.0	2.86	56.4	60.9	2.15	79.8	100.0	21.0	3.0	1.5 (2.8°)	2	**OJUM-03-40**
50	74.7	74.0	25.0	2.86	69.4	78.0	2.65	99.8	157.0	25.5	5.0	2.5 (3.8°)	2	**OJUM-03-50**

Technical data

Part No.	Housing hole	d1 tolerance78)	Fmax. dynamic82) p = 5MPa			Fmax. static82) p = 35MPa			Weight
	Ø H7 [mm]		0°	90°	180°	0°	90°	180°	[g]
OJUM-03-10	19	+0.030 +0.088	725	500	196	5,075	3,500	1,370	10
OJUM-03-12	22	+0.030 +0.088	960	635	240	6,720	4,445	1,680	13
OJUM-03-16	26	+0.030 +0.088	1,440	990	396	10,080	6,943	2,772	19
OJUM-03-20	32	+0.030 +0.091	2,250	1,800	900	15,750	12,600	6,300	38
OJUM-03-25	40	+0.030 +0.091	3,625	2,953	1,523	25,375	20,670	10,658	63
OJUM-03-30	47	+0.040 +0.110	5,100	4,250	2,278	35,700	29,735	15,946	119
OJUM-03-40	62	+0.040 +0.115	8,000	6,810	3,800	56,000	47,660	26,600	250
OJUM-03-50	75	+0.050 +0.150	12,500	10,750	6,125	87,500	75,265	42,875	431

Can be combined with:


RQA-03


RTA-03


RGA-03


RGAS-03

Available with drylin® liners (optional: J200/A180):


J

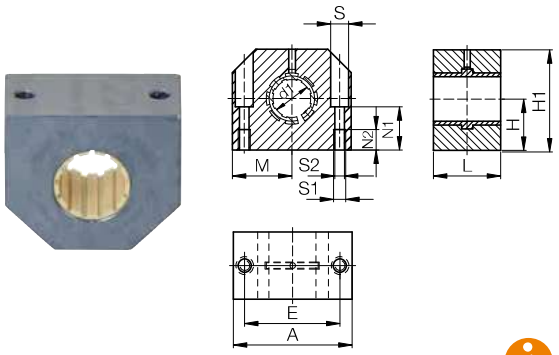

E7


X

My sketches

drylin® R pillow blocks | Product range

Closed, anodised aluminium housing, short design



Order key

Type	Size
R J U M	-05-10

Closed | iglidur® J | Liner | Metric | Compact | Inner Ø d1

[78] According to igus® testing method ▶ Page 1146
[81] Ø < 10mm use press-fitted sleeve bearings
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H	H1	A	M	E	S	S1	S2	N1	N2	L	Part No.
	+0.01 –0.014				±0.15							
8	14	27	32	16.0	23	6.0	M4	3.4	13	9	24	RJZM-05-08[81]
10	16	33	40	20.0	29	8.0	M5	4.3	16	11	26	RJUM-05-10
12	17	33	40	20.0	29	8.0	M5	4.3	16	11	28	RJUM-05-12
16	19	38	45	22.5	34	8.0	M5	4.3	18	11	30	RJUM-05-16
20	23	45	53	26.5	40	9.5	M6	5.3	22	13	30	RJUM-05-20
25	27	54	62	31.0	48	11.0	M8	6.6	26	18	40	RJUM-05-25
30	30	60	67	33.5	53	11.0	M8	6.6	29	18	50	RJUM-05-30
40	39	76	87	43.5	69	15.0	M10	8.4	38	22	60	RJUM-05-40
50	47	92	103	51.5	82	18.0	M12	10.5	46	26	70	RJUM-05-50

Technical data

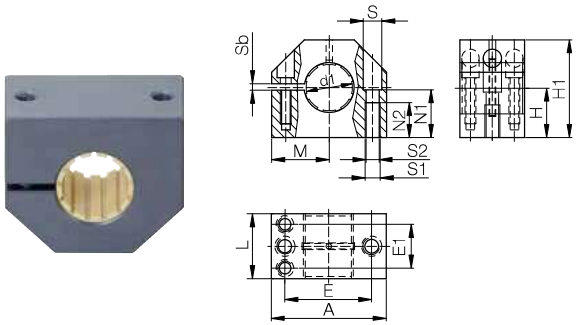
Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa	Fmax. static[82] p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJZM-05-08[81]	+0.032 +0.070	960	6,720	46
RJUM-05-10	+0.030 +0.088	650	4,550	71
RJUM-05-12	+0.030 +0.088	840	5,880	78
RJUM-05-16	+0.030 +0.088	1,200	8,400	106
RJUM-05-20	+0.030 +0.091	1,500	10,500	132
RJUM-05-25	+0.030 +0.091	2,500	17,500	253
RJUM-05-30	+0.040 +0.110	3,750	26,250	374
RJUM-05-40	+0.040 +0.115	6,000	42,000	713
RJUM-05-50	+0.050 +0.150	8,750	61,250	1,168

Available with drylin® liners (optional: J200/A180):

J | E7 | X

drylin® R pillow blocks | Product range

Adjustable anodised aluminium housing, short design



● With adjustable clearance

Order key

Type	Size
R J U M E	-05-12

Closed | iglidur® J | Liner | Metric | Adjustable | Compact | Inner Ø d1

[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H	H1	A	M	E	E1	S	S1	S2	Sb	N1	N2	L	Part No.
	+0.01 –0.014				±0.15	±0.15								
12	17	33	40	20.0	29	18.0	8.0	4.3	M5	2	16	11	28	RJUME-05-12
16	19	38	45	22.5	34	19.0	8.0	4.3	M5	2	18	11	30	RJUME-05-16
20	23	45	53	26.5	40	20.0	9.5	5.3	M6	2	22	13	30	RJUME-05-20
25	27	54	62	31.0	48	25.5	11.0	6.6	M8	2	26	18	40	RJUME-05-25
30	30	60	67	33.5	53	30.5	11.0	6.6	M8	2	29	18	50	RJUME-05-30
40	39	76	87	43.5	69	36.0	15.0	8.4	M10	2	38	22	60	RJUME-05-40
50	47	92	103	51.5	82	44.0	18.0	10.5	M12	2	46	26	70	RJUME-05-50

Technical data

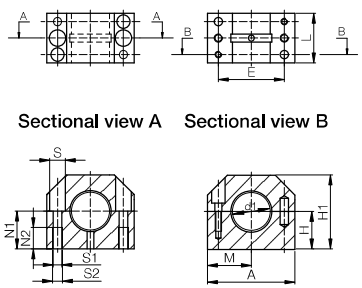
Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa	Fmax. static[82] p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJUME-05-12	Adjustable	840	5,880	78
RJUME-05-16	Adjustable	1,200	8,400	106
RJUME-05-20	Adjustable	1,500	10,500	132
RJUME-05-25	Adjustable	2,500	17,500	253
RJUME-05-30	Adjustable	3,750	26,250	374
RJUME-05-40	Adjustable	6,000	42,000	713
RJUME-05-50	Adjustable	8,750	61,250	1,168

Available with drylin® liners (optional: J200/A180):

J | E7 | X

drylin® R pillow blocks | Product range

Split anodised aluminium housing, screwed, short design



Order key

Type	Size
T J U M-05-16	

Open	iglidur® J	Liner	Metric	Compact	Inner Ø d1

- Replacement of the liner without removing the shaft

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H ±0.02	H1	A	M	E ±0.15	S	S1	S2	N1	N2	L	Part No.
16	19	38	45	22.5	34	8.0	M5	4.3	18	11	30	**TJUM-05-16**
20	23	45	53	26.5	40	9.5	M6	5.3	22	13	30	**TJUM-05-20**
25	27	54	62	31.0	48	11.0	M8	6.6	26	18	40	**TJUM-05-25**
30	30	60	67	33.5	53	11.0	M8	6.6	29	18	50	**TJUM-05-30**
40	39	76	87	43.5	69	15.0	M10	8.4	38	22	60	**TJUM-05-40**

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 5MPa	Fmax. static82) p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
TJUM-05-16	+0.030 +0.120	1,200	8,400	105
TJUM-05-20	+0.030 +0.120	1,500	10,500	137
TJUM-05-25	+0.030 +0.120	2,500	17,500	253
TJUM-05-30	+0.040 +0.135	3,750	26,250	377
TJUM-05-40	+0.040 +0.135	6,000	42,000	720

Available with drylin® liners (optional: J200/A180):

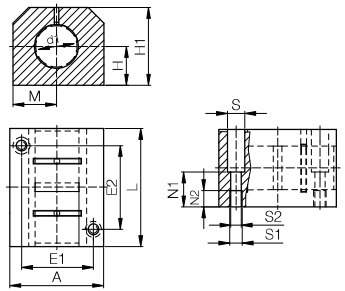

J


E7


X

drylin® R pillow blocks | Product range

Closed, anodised aluminium housing, tandem design



Order key

Type	Size
R J U M T-05-12	

Closed	iglidur® J	Liner	Metric	Tandem	Compact	Inner Ø d1

- Tandem design
- Equipped with two liners to increase the guide length

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H +0.01 –0.014	H1	A	M	E1 ±0.15	E2 ±0.15	S	S1	S2	N1	N2	L	Part No.
12	17	33	40	20	29	35	8.0	M5	4.3	16.0	11	60	**RJUMT-05-12**
16	19	38	45	22.5	34	40	8.0	M5	4.3	18.0	11	65	**RJUMT-05-16**
20	23	45	53	26.5	40	45	9.5	M6	5.3	22.0	13	65	**RJUMT-05-20**
25	27	54	62	31	48	55	11.0	M8	6.6	26.0	18	85	**RJUMT-05-25**
30	30	60	67	33.5	53	70	11.0	M8	6.6	29.0	18	105	**RJUMT-05-30**
40	39	76	87	43.5	69	85	15.0	M10	8.4	38.0	22	125	**RJUMT-05-40**
50	47	92	103	51.5	82	100	18.0	M12	10.5	46.0	26	145	**RJUMT-05-50**

Technical data

Part No.	d1 tolerance78)	Fmax. dynamic82) p = 5MPa	Fmax. static82) p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJUMT-05-12	+0.030 +0.088	840	5,880	170
RJUMT-05-16	+0.030 +0.088	1,200	8,400	250
RJUMT-05-20	+0.030 +0.091	1,500	10,500	300
RJUMT-05-25	+0.030 +0.091	2,500	17,500	550
RJUMT-05-30	+0.040 +0.110	3,750	26,250	750
RJUMT-05-40	+0.040 +0.115	6,000	42,000	1,500
RJUMT-05-50	+0.050 +0.150	8,750	61,250	2,400

Available with drylin® liners (optional: J200/A180):

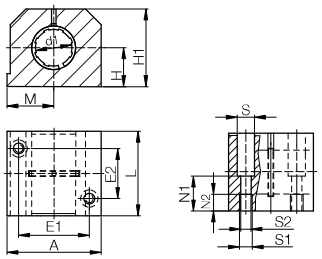

J


E7


X

drylin® R pillow blocks | Product range

Closed, anodised aluminium housing, long design



Order key

Type	Size
R J U M-06-12	

Closed | iglidur® J | Liner | Metric | Long design | Inner Ø d1

[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H	H1	A	M	E1	E2	S	S1	S2	N1	N2	L	Part No.
	+0.01 –0.014			±0.02	±0.15	±0.15							
12	18	35	43	21.5	32	23	8.0	M5	4.3	16.5	11	39	**RJUM-06-12**
16	22	42	53	26.5	40	26	10.0	M6	5.3	21.0	13	43	**RJUM-06-16**
20	25	50	60	30.0	45	32	11.0	M8	6.6	24.0	18	54	**RJUM-06-20**
25	30	60	78	39.0	60	40	15.0	M10	8.4	29.0	22	67	**RJUM-06-25**
30	35	70	87	43.5	68	45	15.0	M10	8.4	34.0	22	79	**RJUM-06-30**
40	45	90	108	54.0	86	58	18.0	M12	10.5	44.0	26	91	**RJUM-06-40**
50	50	105	132	66.0	108	50	20.0	M16	13.5	49.0	34	113	**RJUM-06-50**

Technical data

Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa	Fmax. static[82] p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
RJUM-06-12	+0.030 +0.088	960	6,720	121
RJUM-06-16	+0.030 +0.088	1,440	10,080	211
RJUM-06-20	+0.030 +0.091	2,250	15,750	323
RJUM-06-25	+0.030 +0.091	3,625	25,375	651
RJUM-06-30	+0.040 +0.110	5,100	35,700	1,050
RJUM-06-40	+0.040 +0.115	8,000	56,000	1,820
RJUM-06-50	+0.050 +0.150	12,500	87,500	3,250

Available with drylin® liners (optional: J200/A180):

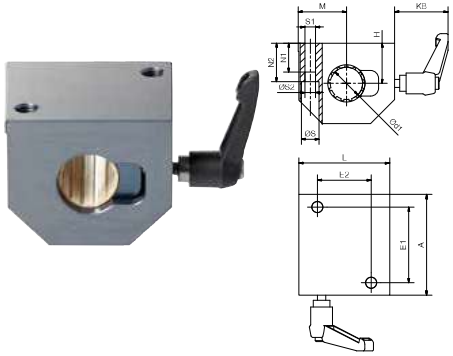

J


E7


X

drylin® R pillow blocks | Product range

Closed, anodised aluminium housing, long design with manual clamp



Order key

Type	Size	Options
R J U M-06-12-HK		

Closed | iglidur® J | Liner | Metric | Long design | Inner Ø d1 | Manual clamp

[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H	H1	A	M	E1	E2	S	S1	S2	N1	N2	W	L	KL	KB	Part No.
	+0.01; –0.014			±0.02	±0.15	±0.15							–1			
12	18	35	43	21.5	32	23	8	M5	4.3	16.5	11	10.2	39	40	33	**RJUM-06-12-HK**
16	22	42	53	26.5	40	26	10	M6	5.3	21	13	11.6	43	40	33	**RJUM-06-16-HK**
20	25	50	60	30	45	32	11	M8	6.6	24	18	12	54	40	33	**RJUM-06-20-HK**
25	30	60	78	39	60	40	15	M10	8.4	29	22	14.5	67	65	46	**RJUM-06-25-HK**
30	35	70	87	43.5	68	45	15	M10	8.4	34	22	16.6	79	65	46	**RJUM-06-30-HK**
40	45	90	108	54	86	58	18	M12	10.5	44	26	21	91	65	46	**RJUM-06-40-HK**
50	50	105	132	66	108	50	20	M16	13.5	49	34	25.5	113	65	46	**RJUM-06-50-HK**

Technical data

Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa	Fmax. static[82] p = 35MPa	Clamp force axial	Weight
		0°	0°	[N]	[g]
RJUM-06-12-HK	+0.030 +0.088	960	6720	400	0.098
RJUM-06-16-HK	+0.030 +0.088	1440	10080	400	0.164
RJUM-06-20-HK	+0.030 +0.091	2250	15750	400	0.275
RJUM-06-25-HK	+0.030 +0.091	3625	25375	1,000	0.544
RJUM-06-30-HK	+0.040 +0.110	5100	35700	1,000	0.832
RJUM-06-40-HK	+0.040 +0.115	8000	56000	1,000	1.513
RJUM-06-50-HK	+0.050 +0.150	12500	87500	1,000	2.568

Available with drylin® liners (optional: J200/A180):

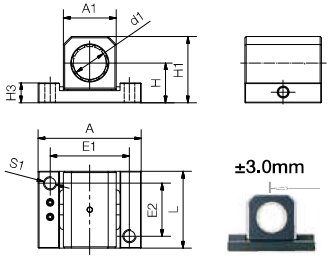

J


E7


X

drylin® R pillow blocks | Product range

Closed, anodised aluminium, floating pillow blocks



Order key

Type	Size	Options
R J U M-06-12 - LL		

Closed | iglidur® J | Liner | Metric | Long design | Inner Ø d1 | Floating bearing

- Compensation of parallelism errors up to 6mm
- Quick assembly even on raw profiles

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Floating bearing ▶ Page 1078

Dimensions [mm]

d1	H ±0.01	H1	A	E1 ±0.15	E2 ±0.15	S1	L	A1	H3	Part No.
12	18	28	43	32	23	M5	32	20	11	RJUM-06-12 LL
16	22	35	53	40	26	M6	36	26	11	RJUM-06-16 LL
20	25	41	60	45	32	M8	45	32	12.5	RJUM-06-20 LL
25	30	50	78	60	40	M10	58	40	15	RJUM-06-25 LL
30	35	59	87	68	45	M10	68	48	15	RJUM-06-30 LL
40	45	76	108	86	58	M12	80	62	20	RJUM-06-40 LL
50	50	89	132	108	50	M16	100	78	24	RJUM-06-50 LL

Technical data

Part No.	d1 tolerance78) [mm]	Fmax. static or dynamic82) [N]	Weight [g]
RJUM-06-12 LL	+0.030 +0.088	560	50
RJUM-06-16 LL	+0.030 +0.088	920	80
RJUM-06-20 LL	+0.030 +0.091	2,100	130
RJUM-06-25 LL	+0.030 +0.091	3,550	280
RJUM-06-30 LL	+0.040 +0.110	5,300	430
RJUM-06-40 LL	+0.040 +0.115	8,000	850
RJUM-06-50 LL	+0.050 +0.150	12,500	1,550

Available with drylin® liners (optional: J200/A180):

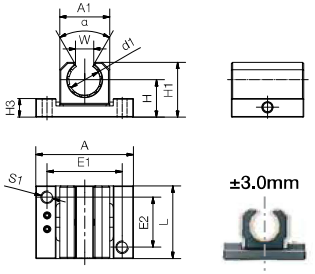

J

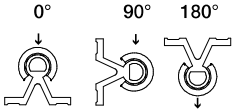

E7


X

drylin® R pillow blocks | Product range

Open, anodised aluminium, floating pillow blocks





- Compensation of parallelism errors up to 6mm

Order key

Type	Size	Options
O J U M-06-12 - LL		

Open | iglidur® J | Liner | Metric | Long design | Inner Ø d1 | Floating bearing

78) According to igus® testing method ▶ Page 1146
82) Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079
Floating bearing ▶ Page 1078

Dimensions [mm]

d1	H ±0.01	H1	A	E1 ±0.15	E2 ±0.15	S1	L	A1	H3	W −1	α [°]	Part No.
12	18	24.5	43	32	23	M5	32	20	11	10.2	90	OJUM-06-12 LL
16	22	30.5	53	40	26	M6	36	26	11	11.6	90	OJUM-06-16 LL
20	25	37.0	60	45	32	M8	45	32	12.5	12.0	60	OJUM-06-20 LL
25	30	44.0	78	60	40	M10	58	40	15	14.5	60	OJUM-06-25 LL
30	35	52.5	87	68	45	M10	68	48	15	16.8	60	OJUM-06-30 LL
40	45	69.0	108	86	58	M12	80	62	20	21.0	60	OJUM-06-40 LL
50	50	80.0	132	108	50	M16	100	78	24	25.5	60	OJUM-06-50 LL

Technical data

Part No.	d1 tolerance78) [mm]	Fmax. static or dynamic82) [N]	Fmax. static82) with load at 180° [N]	Weight [g]
OJUM-06-12 LL	+0.030 +0.088	560	240	40
OJUM-06-16 LL	+0.030 +0.088	920	400	70
OJUM-06-20 LL	+0.030 +0.091	2,100	900	115
OJUM-06-25 LL	+0.030 +0.091	3,550	1,520	240
OJUM-06-30 LL	+0.040 +0.110	5,100	2,280	370
OJUM-06-40 LL	+0.040 +0.115	8,000	3,800	750
OJUM-06-50 LL	+0.050 +0.150	12,500	6,100	1,400

Available with drylin® liners (optional: J200/A180):

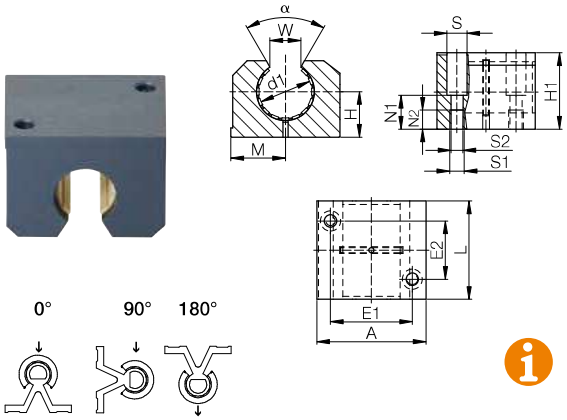

J


E7


X

drylin® R pillow blocks | Product range

Open, anodised aluminium housing, long design



Order key

Type	Size
O J U M-06-12	

Open	iglidur® J	Liner	Metric	Long design	Inner Ø d1
●					

[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H	H1	A	M	E1	E2	S	S1	S2	N1	N2	W	α	L	Part No.
	+0.01; –0.014			±0.02	±0.15	±0.15						–1	[°]		
12	18	28	43	21.5	32	23	8.0	M5	4.3	16.5	11	10.2	78	39	**OJUM-06-12**
16	22	35	53	26.5	40	26	10.0	M6	5.3	21.0	13	11.6	78	43	**OJUM-06-16**
20	25	42	60	30.0	45	32	11.0	M8	6.6	24.0	18	12.0	60	54	**OJUM-06-20**
25	30	51	78	39.0	60	40	15.0	M10	8.4	29.0	22	14.5	60	67	**OJUM-06-25**
30	35	60	87	43.5	68	45	15.0	M10	8.4	34.0	22	16.6	57	79	**OJUM-06-30**
40	45	77	108	54.0	86	58	18.0	M12	10.5	44.0	26	21.0	56	91	**OJUM-06-40**
50	50	88	132	66.0	108	50	20.0	M16	13.5	49.0	34	25.5	54	113	**OJUM-06-50**

Technical data

Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa			Fmax. static[82] p = 35MPa			Weight
		0°	90°	180°	0°	90°	180°	[g]
OJUM-06-12	+0.030 +0.088	960	635	240	6,720	4,445	1,680	95
OJUM-06-16	+0.030 +0.088	1440	990	396	10,080	6,943	2,772	158
OJUM-06-20	+0.030 +0.091	2250	1,800	900	15,750	12,600	6,300	266
OJUM-06-25	+0.030 +0.091	3625	2,953	1,523	25,375	20,670	10,658	530
OJUM-06-30	+0.040 +0.110	5100	4,250	2,278	35,700	29,735	15,946	818
OJUM-06-40	+0.040 +0.115	8000	6,810	3,800	56,000	47,660	26,600	1,485
OJUM-06-50	+0.050 +0.150	12,500	10,750	6,125	87,500	75,265	42,875	2,750

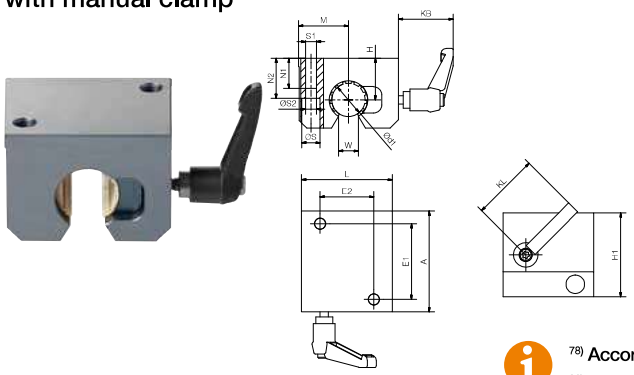
Available with drylin® liners (optional: J200/A180):

J E7 X

drylin® R shaft guides

drylin® R pillow blocks | Product range

Open, anodised aluminium housing, long design with manual clamp



Order key

Type	Size	Options
O J U M-06-12-HK		

Open	iglidur® J	Liner	Metric	Long design	Inner Ø d1	Manual clamp
●						

[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H	H1	A	M	E1	E2	S	S1	S2	N1	N2	W	L	KL	KB	Part No.
	+0.01; –0.014			±0.02	±0.15	±0.15						–1				
12	18	28	43	21.5	32	23	8	M5	4.3	16.5	11	10.2	39	40	33	**OJUM-06-12-HK**
16	22	35	53	26.5	40	26	10	M6	5.3	21	13	11.6	43	40	33	**OJUM-06-16-HK**
20	25	42	60	30.0	45	32	11	M8	6.6	24	18	12.0	54	40	33	**OJUM-06-20-HK**
25	30	51	78	39.0	60	40	15	M10	8.4	29	22	14.5	67	65	46	**OJUM-06-25-HK**
30	35	60	87	43.5	68	45	15	M10	8.4	34	22	16.6	79	65	46	**OJUM-06-30-HK**
40	45	77	108	54.0	86	58	18	M12	10.5	44	26	21.0	91	65	46	**OJUM-06-40-HK**
50	50	88	132	66.0	108	50	20	M16	13.5	49	34	25.5	113	65	46	**OJUM-06-50-HK**

Technical data

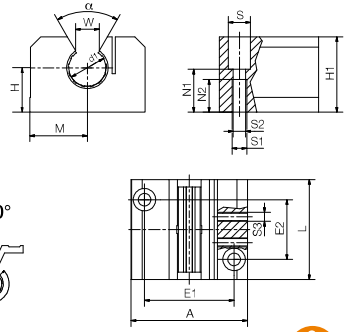
Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa			Fmax. static[82] p = 35MPa			Clamp force axial	Weight
		0°	90°	180°	0°	90°	180°	[N]	[g]
OJUM-06-12-HK	+0.030 +0.088	960	635	240	6720	4445	1680	400	0,098
OJUM-06-16-HK	+0.030 +0.088	1440	990	396	10080	6943	2772	400	0.164
OJUM-06-20-HK	+0.030 +0.091	2250	1800	900	15750	12600	6300	400	0.275
OJUM-06-25-HK	+0.030 +0.091	3625	2953	1523	25375	20670	10658	1,000	0.544
OJUM-06-30-HK	+0.040 +0.110	5100	4250	2278	35700	29735	15946	1,000	0.832
OJUM-06-40-HK	+0.040 +0.115	8000	6810	3800	56000	47660	26600	1,000	1.513
OJUM-06-50-HK	+0.050 +0.150	12500	10750	6125	87500	75265	42875	1,000	2.568

Available with drylin® liners (optional: J200/A180):

J E7 X

drylin® R pillow blocks | Product range

Open, anodised aluminium housing, long design, adjustable



● With two set screws (DIN 913), clearance adjustment possible

Order key

Type	Size
O J U M	E-06-12

Open	iglidur® J	Liner	Metric	Adjustable	Long design	Inner Ø d1

[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	H	H1	A	M	E1	E2	S	S1	S2	S3	N1	N2	W	α	L	Part No.
	+0.01; –0.014			±0.02	±0.15	±0.15							–1	[°]		
12	18	28	43	21.5	32	23	8.0	M5	4.3	M4	16.5	11	10.2	78	39	**OJUME-06-12**
16	22	35	53	26.5	40	26	10.0	M6	5.3	M4	21.0	13	11.6	78	43	**OJUME-06-16**
20	25	42	60	30.0	45	32	11.0	M8	6.6	M5	24.0	18	12.0	60	54	**OJUME-06-20**
25	30	51	78	39.0	60	40	15.0	M10	8.4	M6	29.0	22	14.5	60	67	**OJUME-06-25**
30	35	60	87	43.5	68	45	15.0	M10	8.4	M6	34.0	22	16.6	57	79	**OJUME-06-30**
40	45	77	108	54.0	86	58	18.0	M12	10.5	M8	44.0	26	21.0	56	91	**OJUME-06-40**
50	50	88	132	66.0	108	50	20.0	M16	13.5	M8	49.0	34	25.5	54	113	**OJUME-06-50**

Technical data

Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa			Fmax. static[82] p = 35MPa			Weight
		0°	90°	180°	0°	90°	180°	[g]
OJUME-06-12	Adjustable	960	635	240	6,720	4,445	1,680	100
OJUME-06-16	Adjustable	1,440	990	396	10,080	6,943	2,772	160
OJUME-06-20	Adjustable	2,250	1,800	900	15,750	12,600	6,300	270
OJUME-06-25	Adjustable	3,625	2,953	1,523	25,375	20,670	10,658	530
OJUME-06-30	Adjustable	5,100	4,250	2,278	35,700	29,735	15,946	820
OJUME-06-40	Adjustable	8,000	6,810	3,800	56,000	47,660	26,600	1,490
OJUME-06-50	Adjustable	12,500	10,750	6,125	87,500	75,265	42,875	2,750

Available with drylin® liners (optional: J200/A180):


J

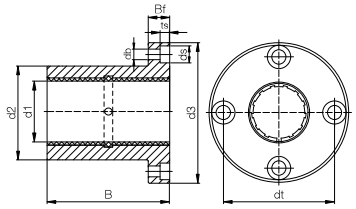

E7


X

My sketches

drylin® R flanged linear plain bearings | Product range

Closed, anodised aluminium adapter, round flange



[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Order key

Type						Size	
F	J	U	M	-	01	-	10 - LL
With flange	iglidur® J	Liner	Metric	Round design		Inner Ø d1	

Option:
LL: Floating bearing

Dimensions [mm]

d1	d2 h7	d3	dt	B	Bf	ts	db	ds	Part No.
8.0	16	32	24	25	8	3.1	3.5	6.0	**FJZM-01-08**
10.0	19	39	29	29	9	4.1	4.5	7.5	**FJUM-01-10**
10.4	19	39	29	29	9	4.1	4.5	7.5	**FJUM-01-10-LL**
12.0	22	42	32	32	9	4.1	4.5	7.5	**FJUM-01-12**
12.4	22	42	32	32	9	4.1	4.5	7.5	**FJUM-01-12-LL**
16.0	26	46	36	36	9	4.1	4.5	7.5	**FJUM-01-16**
16.4	26	46	36	36	9	4.1	4.5	7.5	**FJUM-01-16-LL**
20.0	32	54	43	45	11	5.1	5.5	9.0	**FJUM-01-20**
20.5	32	54	43	45	11	5.1	5.5	9.0	**FJUM-01-20-LL**
25.0	40	62	51	58	11	5.1	5.5	9.0	**FJUM-01-25**
25.5	40	62	51	58	11	5.1	5.5	9.0	**FJUM-01-25-LL**
30.0	47	76	62	68	14	6.1	6.6	11.0	**FJUM-01-30**
30.6	47	76	62	68	14	6.1	6.6	11.0	**FJUM-01-30-LL**
40.0	62	98	80	80	18	8.1	9.0	14.0	**FJUM-01-40**
50.0	75	112	94	100	18	8.1	9.0	14.0	**FJUM-01-50**

Technical data

Part No.	d1 tolerance[78]	Fmax. dynamic[82] p = 5MPa	Fmax. static[82] p = 35MPa	Weight
	[mm]	[N]	[N]	[g]
FJZM-01-08	+0.032 +0.070	960	6,720	20
FJUM-01-10	+0.030 +0.088	725	5,075	32
FJUM-01-10-LL	+0.030 +0.088	725	5,075	32
FJUM-01-12	+0.030 +0.088	960	6,720	42
FJUM-01-12-LL	+0.030 +0.088	960	6,720	42
FJUM-01-16	+0.030 +0.088	1,440	10,080	51
FJUM-01-16-LL	+0.030 +0.088	1,440	10,080	51
FJUM-01-20	+0.030 +0.091	2,250	15,750	88
FJUM-01-20-LL	+0.030 +0.091	2,250	15,750	88
FJUM-01-25	+0.030 +0.091	3,625	25,375	152
FJUM-01-25-LL	+0.030 +0.091	3,625	25,375	152
FJUM-01-30	+0.040 +0.110	5,100	35,700	266
FJUM-01-30-LL	+0.040 +0.110	5,100	35,700	266
FJUM-01-40	+0.040 +0.115	8,000	56,000	552
FJUM-01-50	+0.050 +0.150	12,500	87,500	853

Available with drylin® liners (optional: J200/A180):


J


E7

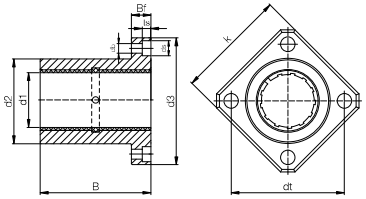

X

drylin® R shaft guides

drylin® R flanged linear plain bearings | Product range

drylin® R flanged linear plain bearings | Product range

Closed, anodised aluminium adapter, square flange



[78] According to igus® testing method ▶ Page 1146
[82] Design tips ▶ Page 1078
Please note: Installation instructions ▶ Page 1079

Order key

Type	Size
F J U M	-02-10-LL

With flange	iglidur® J	Liner	Metric	Square design	Inner Ø d1

Option:
LL: Floating bearing

Dimensions [mm]

d1 ±0.01	d2 h7	d3	dt ±0.15	k ±0.15	B	Bf	ts	db	ds	Part No.
8.0	16	32	24	25	25	8	3.1	3.5	6.0	**FJZM-02-08**[82]
10.0	19	39	29	30	29	9	4.1	4.5	7.5	**FJUM-02-10**
10.4	19	39	29	30	29	9	4.1	4.5	7.5	**FJUM-02-10-LL**
12.0	22	42	32	32	32	9	4.1	4.5	7.5	**FJUM-02-12**
12.4	22	42	32	32	32	9	4.1	4.5	7.5	**FJUM-02-12-LL**
16.0	26	46	36	35	36	9	4.1	4.5	7.5	**FJUM-02-16**
16.4	26	46	36	35	36	9	4.1	4.5	7.5	**FJUM-02-16-LL**
20.0	32	54	43	42	45	11	5.1	5.5	9.0	**FJUM-02-20**
20.5	32	54	43	42	45	11	5.1	5.5	9.0	**FJUM-02-20-LL**
25.0	40	62	51	50	58	11	5.1	5.5	9.0	**FJUM-02-25**
25.5	40	62	51	50	58	11	5.1	5.5	9.0	**FJUM-02-25-LL**
30.0	47	76	62	60	68	14	6.1	6.6	11.0	**FJUM-02-30**
30.6	47	76	62	60	68	14	6.1	6.6	11.0	**FJUM-02-30-LL**
40.0	62	98	80	75	80	18	8.1	9.0	14.0	**FJUM-02-40**
50.0	75	112	94	88	100	18	8.1	9.0	14.0	**FJUM-02-50**

Technical data

Part No.	d1 tolerance[78]	Fmax. static or dynamic[82]	Fmax. static[82] with load at 180°	Weight
	[mm]	[N]	[N]	[g]
FJZM-02-08[82]	+0.032 +0.070	960	6,720	17
FJUM-02-10	+0.030 +0.088	725	5,075	25
FJUM-02-10-LL	+0.030 +0.088	725	5,075	25
FJUM-02-12	+0.030 +0.088	960	6,720	32
FJUM-02-12-LL	+0.030 +0.088	960	6,720	32
FJUM-02-16	+0.030 +0.088	1,440	10,080	41
FJUM-02-16-LL	+0.030 +0.088	1,440	10,080	41
FJUM-02-20	+0.030 +0.091	2,250	15,750	73
FJUM-02-20-LL	+0.030 +0.091	2,250	15,750	73
FJUM-02-25	+0.030 +0.091	3,625	25,375	135
FJUM-02-25-LL	+0.030 +0.091	3,625	25,375	135
FJUM-02-30	+0.040 +0.110	5,100	35,700	228
FJUM-02-30-LL	+0.040 +0.110	5,100	35,700	228
FJUM-02-40	+0.040 +0.115	8,000	56,000	454
FJUM-02-50	+0.050 +0.150	12,500	87,500	735

Available with drylin® liners (optional: J200/A180):


J


E7

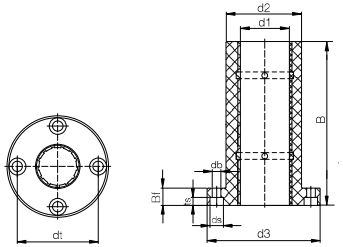

X

drylin® R flanged linear plain bearings | Product range

drylin® R shaft guides

drylin® R flanged linear plain bearings | Product range

Closed, anodised aluminium adapter, round flange, tandem design



● Equipped with two liners to increase the guide length

78) According to igus® testing method ▶ Page 1146
85) Fitted with two pieces of JSM-0810-16
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	d2 h7	d3	dt	B	Bf	ts	db	ds	Part No.
8.0	16	32	24	45	8	3.1	3.5	6.0	FJZMT-01-08[85]
10.0	19	39	29	52	9	4.1	4.5	7.5	FJUMT-01-10
10.4	19	39	29	52	9	4.1	4.5	7.5	FJUMT-01-10-LL
12.0	22	42	32	57	9	4.1	4.5	7.5	FJUMT-01-12
12.4	22	42	32	57	9	4.1	4.5	7.5	FJUMT-01-12-LL
16.0	26	46	36	70	9	4.1	4.5	7.5	FJUMT-01-16
16.4	26	46	36	70	9	4.1	4.5	7.5	FJUMT-01-16-LL
20.0	32	54	43	80	11	5.1	5.5	9.0	FJUMT-01-20
20.5	32	54	43	80	11	5.1	5.5	9.0	FJUMT-01-20-LL
25.0	40	62	51	112	11	5.1	5.5	9.0	FJUMT-01-25
25.5	40	62	51	112	11	5.1	5.5	9.0	FJUMT-01-25-LL
30.0	47	76	62	123	14	6.1	6.6	11.0	FJUMT-01-30
30.6	47	76	62	123	14	6.1	6.6	11.0	FJUMT-01-30-LL
40.0	62	98	80	151	18	8.1	9.0	14.0	FJUMT-01-40
50.0	75	112	94	192	18	8.1	9.0	14.0	FJUMT-01-50

Available with drylin® liners (optional: J200/A180):


J


E7


X

drylin® R flanged linear plain bearings | Product range

drylin® R shaft guides

Order key

Type	Size

F J U M T-01-10-LL

With flange	iglidur® J	Liner	Metric	Tandem	Round design	Inner Ø d1

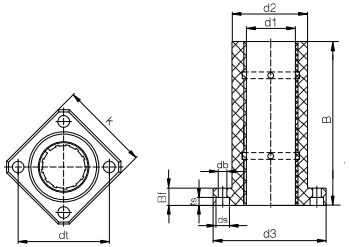
Option:
LL: Floating bearing

Technical data

Part No.	Dimension nominal diameter [mm]	d1 tolerance[78] [mm]	Guide length [mm]	Projected bearing surface [N]	Weight [g]
FJZMT-01-08[85]	8	+0.032 +0.070	45	256	27.13
FJUMT-01-10	10	+0.030 +0.088	52	250	43.75
FJUMT-01-10-LL	10	+0.030 +0.088	52	250	43.75
FJUMT-01-12	12	+0.030 +0.088	57	324	57.00
FJUMT-01-12-LL	12	+0.030 +0.088	57	324	57.00
FJUMT-01-16	16	+0.030 +0.088	70	464	78.28
FJUMT-01-16-LL	16	+0.030 +0.088	70	464	78.28
FJUMT-01-20	20	+0.030 +0.091	80	580	126.42
FJUMT-01-20-LL	20	+0.030 +0.091	80	580	126.42
FJUMT-01-25	25	+0.030 +0.091	112	975	248.85
FJUMT-01-25-LL	25	+0.030 +0.091	112	975	248.85
FJUMT-01-30	30	+0.040 +0.110	123	1,470	388.37
FJUMT-01-30-LL	30	+0.040 +0.110	123	1,470	388.37
FJUMT-01-40	40	+0.040 +0.115	151	2,360	835.00
FJUMT-01-50	50	+0.050 +0.150	192	3,450	1,352.30

drylin® R flanged linear plain bearings | Product range

Closed, anodised aluminium adapter, square flange, tandem design



● Equipped with two liners to increase the guide length

78) According to igus® testing method ▶ Page 1146
85) Fitted with two pieces of JSM-0810-16
Please note: Installation instructions ▶ Page 1079

Dimensions [mm]

d1	d2 h7	d3	dt	k	B	Bf	ts	db	ds	Part No.
8.0	16	32	24	25	45	8	3.1	3.5	6.0	FJZMT-02-08[85]
10.0	19	39	29	30	52	9	4.1	4.5	7.5	FJUMT-02-10
10.4	19	39	29	30	52	9	4.1	4.5	7.5	FJUMT-02-10-LL
12.0	22	42	32	32	57	9	4.1	4.5	7.5	FJUMT-02-12
12.4	22	42	32	32	57	9	4.1	4.5	7.5	FJUMT-02-12-LL
16.0	26	46	36	35	70	9	4.1	4.5	7.5	FJUMT-02-16
16.4	26	46	36	35	70	9	4.1	4.5	7.5	FJUMT-02-16-LL
20.0	32	54	43	42	80	11	5.1	5.5	9.0	FJUMT-02-20
20.5	32	54	43	42	80	11	5.1	5.5	9.0	FJUMT-02-20-LL
25.0	40	62	51	50	112	11	5.1	5.5	9.0	FJUMT-02-25
25.5	40	62	51	50	112	11	5.1	5.5	9.0	FJUMT-02-25-LL
30.0	47	76	62	60	123	14	6.1	6.6	11.0	FJUMT-02-30
30.6	47	76	62	60	123	14	6.1	6.6	11.0	FJUMT-02-30-LL
40.0	62	98	80	75	151	18	8.1	9.0	14.0	FJUMT-02-40
50.0	75	112	94	88	192	18	8.1	9.0	14.0	FJUMT-02-50

Available with drylin® liners (optional: J200/A180):


J


E7


X

drylin® R shaft guides

drylin® R flanged linear plain bearings | Product range

Order key

Type	Size

F J U M T-02-10-LL

With flange	iglidur® J	Liner	Metric	Tandem	Square design	Inner Ø d1

Option:
LL: Floating bearing

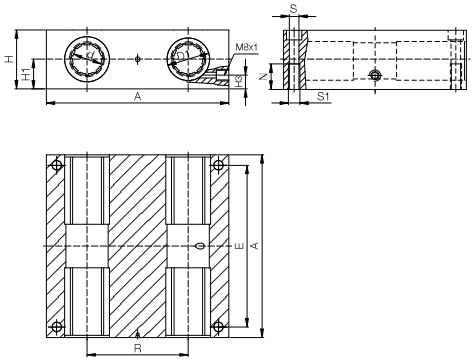
Technical data

Part No.	Dimension nominal diameter [mm]	d1 tolerance[78] [mm]	Guide length [mm]	Projected bearing surface [N]	Weight [g]
FJZMT-02-08[85]	8	+0.032 +0.070	45	256	23.00
FJUMT-02-10	10	+0.030 +0.088	52	250	36.58
FJUMT-02-10-LL	10	+0.030 +0.088	52	250	36.58
FJUMT-02-12	12	+0.030 +0.088	57	324	48.19
FJUMT-02-12-LL	12	+0.030 +0.088	57	324	48.19
FJUMT-02-16	16	+0.030 +0.088	70	464	67.79
FJUMT-02-16-LL	16	+0.030 +0.088	70	464	67.79
FJUMT-02-20	20	+0.030 +0.091	80	580	110.06
FJUMT-02-20-LL	20	+0.030 +0.091	80	580	110.06
FJUMT-02-25	25	+0.030 +0.091	112	975	230.06
FJUMT-02-25-LL	25	+0.030 +0.091	112	975	230.06
FJUMT-02-30	30	+0.040 +0.110	123	1,470	350.74
FJUMT-02-30-LL	30	+0.040 +0.110	123	1,470	350.74
FJUMT-02-40	40	+0.040 +0.115	151	2,360	739.30
FJUMT-02-50	50	+0.050 +0.150	192	3,450	1,249.30

drylin® R quad blocks | Product range

Closed design

- Housing: Aluminium, equipped with four drylin® R linear plain bearings



Order key

Type	Option	Size
R Q A -	01	- 10

- Quad block with RJUM bearings
- Aluminium housing
- Standard with RJUM-01
- Inner Ø d1

Options:
01: Standard with RJUM-01
03: with RJUM-03
04: with RJM-01

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D1	A	H	H1	H3	R	N	E	S	S1	Part No. Standard with RJUM-01	Self-aligning with RJUM-03	Solid plastic bearings with RJM-01
8	16	65	23	11.5	8	32	11	55	4.3	M5	**RQA-01-08**	–	**RQA-04-08**
10	19	70	25	12.5	10	34	13	60	4.3	M5	**RQA-01-10**	**RQA-03-10**	**RQA-04-10**
12	22	85	32	16	13	42	13	73	5.3	M6	**RQA-01-12**	**RQA-03-12**	**RQA-04-12**
16	26	100	36	18	15	54	13	88	5.3	M6	**RQA-01-16**	**RQA-03-16**	**RQA-04-16**
20	32	130	46	23	19	72	18	115	6.6	M8	**RQA-01-20**	**RQA-03-20**	**RQA-04-20**
25	40	160	56	28	24	88	22	140	8.4	M10	**RQA-01-25**	**RQA-03-25**	**RQA-04-25**
30	47	180	64	32	27	96	26	158	10.5	M12	**RQA-01-30**	**RQA-03-30**	**RQA-04-30**
40	62	230	80	40	35	122	34	202	13.5	M16	**RQA-01-40**	**RQA-03-40**	**RQA-04-40**

Are equipped with:


RJUM-01


RJUM-03


RJM-01

Available with drylin® liners (optional: J200/A180):


J

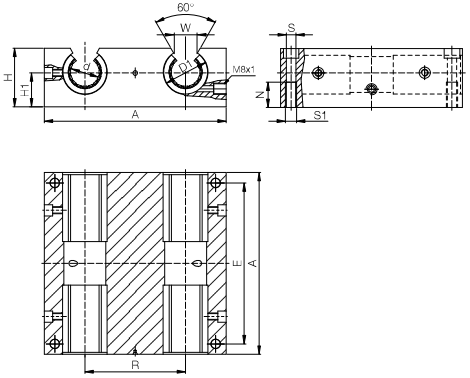

E7


X

drylin® R quad blocks | Product range

Open design

- Housing: Aluminium, equipped with four drylin® R linear plain bearings



Order key

Type	Option	Size
O Q A -	01	- 12

- Quad block with OJUM bearings
- Aluminium housing
- Standard with OJUM-01
- Inner Ø d1

Options:
01: Standard with OJUM-01
03: with OJUM-03

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D1	A	H	H1	W	R	N	E	S	S1	Part No. Standard with OJUM-01	Self-aligning with OJUM-03
12	22	85	30	18	14	42	13	73	5.3	M6	**OQA-01-12**	**OQA-03-12**
16	26	100	35	22	17	54	13	88	5.3	M6	**OQA-01-16**	**OQA-03-16**
20	32	130	42	25	17	72	18	115	6.8	M8	**OQA-01-20**	**OQA-03-20**
25	40	160	51	30	21	88	22	140	9.0	M10	**OQA-01-25**	**OQA-03-25**
30	47	180	60	35	21	96	26	158	10.5	M12	**OQA-01-30**	**OQA-03-30**
40	62	230	77	45	27	122	34	202	13.5	M16	**OQA-01-40**	**OQA-03-40**

Are equipped with:


OJUM-01


OJUM-03

Available with drylin® liners (optional: J200/A180):


J

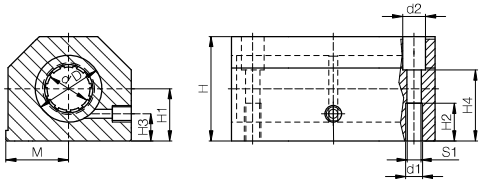

E7

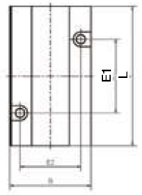

X

drylin® R quad blocks | Product range

Closed, tandem design

● Housing: Aluminium, equipped with two drylin® R linear plain bearings to increase the guide length





Order key

Type	Option	Size
R T A -	01	- 08

- Type: Tandem housing with RJUM bearings / Aluminium housing
- Option: Standard with RJUM-01
- Size: Inner Ø

Options:
01: Standard with RJUM-01
03: with RJUM-03
04: with RJM-01

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D H6	H	H1 +0.01 −0.02	H2	H3	H4	S1	B	L +0.3	M ±0.02	E1 ±0.15	E2 ±0.15	d1	d2	Part No. Standard with RJUM-01	Self-aligning with RJUM-03	Solid plastic bearings with RJM-01
8	16	28	13	13	8	23	M5	35	62	17.5	35	25	4.20	8	**RTA-01-08**	–	**RTA-04-08**
12	22	35	18	13	10	25	M6	43	76	21.5	40	30	5.20	10	**RTA-01-12**	**RTA-03-12**	**RTA-04-12**
16	26	42	22	13	12	30	M6	53	84	26.5	45	36	5.20	10	**RTA-01-16**	**RTA-03-16**	**RTA-04-16**
20	32	50	25	18	13	34	M8	60	104	30.0	55	45	6.80	11	**RTA-01-20**	**RTA-03-20**	**RTA-04-20**
25	40	60	30	22	15	40	M10	78	130	39.0	70	54	8.60	15	**RTA-01-25**	**RTA-03-25**	**RTA-04-25**
30	47	70	35	26	16	48	M12	87	152	43.5	85	62	10.30	18	**RTA-01-30**	**RTA-03-30**	**RTA-04-30**
40	62	90	45	34	20	60	M16	108	176	54.0	100	80	14.25	20	**RTA-01-40**	**RTA-03-40**	**RTA-04-40**

Are equipped with:


RJUM-01


RJUM-03


RJM-01

Available with drylin® liners (optional: J200/A180):


J

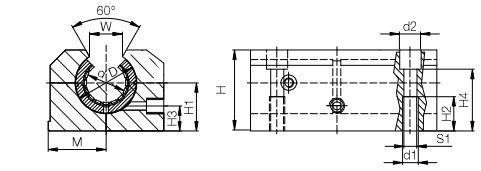

E7

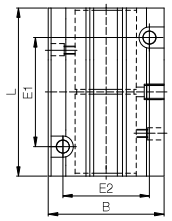

X

drylin® R quad blocks | Product range

Open, tandem design

● Housing: Aluminium, equipped with two drylin® R linear plain bearings to increase the guide length





Order key

Type	Option	Size
O T A -	01	- 12

- Type: Tandem housing with OJUM bearings / Aluminium housing
- Option: Standard with OJUM-01
- Size: Inner Ø

Options:
01: Standard with OJUM-01
03: with OJUM-03

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D H6	H	H1 +0.01 −0.02	H2	H3	H4	S1	B	L +0.3	M ±0.02	E1 ±0.15	E2 ±0.15	d1	d2	W	Part No. Standard with OJUM-01	Self-aligning with OJUM-03
12	22	30	18	13	10	25	M6	43	76	21.5	40	30	5.20	10	14	**OTA-01-12**	**OTA-03-12**
16	26	35	22	13	12	30	M6	53	84	26.5	45	36	5.20	10	17	**OTA-01-16**	**OTA-03-16**
20	32	42	25	18	13	34	M8	60	104	30.0	55	45	6.80	11	17	**OTA-01-20**	**OTA-03-20**
25	40	51	30	22	15	40	M10	78	130	39.0	70	54	8.60	15	21	**OTA-01-25**	**OTA-03-25**
30	47	60	35	26	16	48	M12	87	152	43.5	85	62	10.30	18	21	**OTA-01-30**	**OTA-03-30**
40	62	77	45	34	20	60	M16	108	176	54.0	100	80	14.25	20	27	**OTA-01-40**	**OTA-03-40**

Are equipped with:


OJUM-01


OJUM-03

Available with drylin® liners (optional: J200/A180):


J

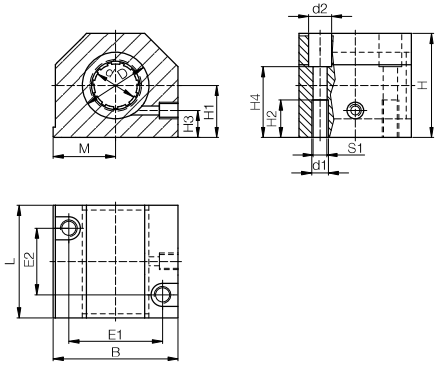

E7


X

drylin® R quad blocks | Product range

Closed, long design

● Housing: Aluminium, equipped with drylin® R linear plain bearings



Order key

Type	Option	Size
R G A	- 01	- 12

- R G A: Linear housing with RJUM bearing; Aluminium housing; Standard with RJUM-01
- 01: Inner Ø

Options:
01: Standard with RJUM-01
03: with RJUM-03
04: with RJM-01

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D H6	H	H1 +0.01 −0.02	H2	H3	H4	S1	B	L ±0.3	M ±0.02	E1 ±0.15	E2 ±0.15	d1	d2	Part No. Standard with RJUM-01	Self-aligning with RJUM-03	Solid plastic bearings with RJM-01
8	16	28	13	10	8	14	M4	35	32	17.5	25	20	3.2	6	**RGA-01-08**	**–**	**RGA-04-08**
12	22	35	18	11	10	25	M5	43	39	21.5	32	23	4.2	6	**RGA-01-12**	**RGA-03-12**	**RGA-04-12**
16	26	42	22	13	12	30	M6	53	43	26.5	40	26	5.2	10	**RGA-01-16**	**RGA-03-16**	**RGA-04-16**
20	32	50	25	18	13	34	M8	60	54	30.0	45	32	6.8	11	**RGA-01-20**	**RGA-03-20**	**RGA-04-20**
25	40	60	30	22	15	40	M10	78	67	39.0	60	40	8.6	15	**RGA-01-25**	**RGA-03-25**	**RGA-04-25**
30	47	70	35	22	16	48	M10	87	79	43.5	68	45	8.6	15	**RGA-01-30**	**RGA-03-30**	**RGA-04-30**
40	62	90	45	26	20	60	M12	108	91	54.0	86	58	10.3	18	**RGA-01-40**	**RGA-03-40**	**RGA-04-40**

Are equipped with:


RJUM-01


RJUM-03


RJM-01

Available with drylin® liners (optional: J200/A180):


J

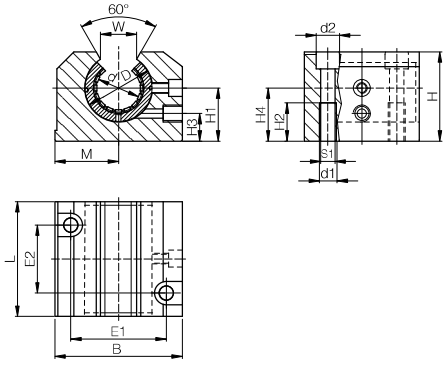

E7


X

drylin® R quad blocks | Product range

Open, long design

● Housing: Aluminium, equipped with drylin® R linear plain bearings



Order key

Type	Option	Size
O G A	- 01	- 12

- O G A: Linear housing with OJUM bearing; Aluminium housing; Standard with OJUM-01
- 01: Inner Ø

Options:
01: Standard with OJUM-01
03: with OJUM-03

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D H6	H	H1 +0.01 −0.02	H2	H3	H4	S1	B	L ±0.3	M ±0.02	E1 ±0.15	E2 ±0.15	d1	d2	W +0.6	Part No. Standard with OJUM-01	Self-aligning with OJUM-03
12	22	28	18	11	8	25	M5	43	39	21.5	32	23	4.2	8	14	**OGA-01-12**	**OGA-03-12**
16	26	35	22	13	12	30	M6	53	43	26.5	40	26	5.2	10	17	**OGA-01-16**	**OGA-03-16**
20	32	42	25	18	13	34	M8	60	54	30.0	45	32	6.8	11	17	**OGA-01-20**	**OGA-03-20**
25	40	51	30	22	15	40	M10	78	67	39.0	60	40	8.6	15	21	**OGA-01-25**	**OGA-03-25**
30	47	60	35	22	16	48	M10	87	79	43.5	68	45	8.6	15	21	**OGA-01-30**	**OGA-03-30**
40	62	77	45	26	20	60	M12	108	91	54.0	86	58	10.3	18	27	**OGA-01-40**	**OGA-03-40**

Are equipped with:


OJUM-01


OJUM-03

Available with drylin® liners (optional: J200/A180):


J

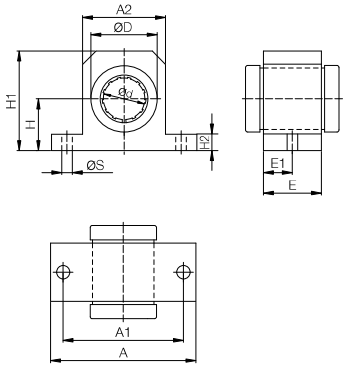

E7


X

drylin® R pillow blocks | Product range

Closed, short design

- Housing: Aluminium, equipped with drylin® R linear plain bearings
- Variations:
  Standard: RGAS-01-Ø
  Self-aligning: RGAS-03-Ø
  Solid plastic bearing (cost-effective, lightweight): RGAS-04-Ø



Order key

Type	Option	Size
R G A S - 01		- 12

Type: Linear housing with RJUM bearing; Aluminium housing; Small; Standard with RJUM-01

Option: Inner Ø

Options:
01: Standard with RJUM-01
03: with RJUM-03
04: with RJM-01

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D	H	H1	H2	A	A1	A2	E	E1	S	Part No. Standard with RJUM-01	Self-aligning with RJUM-03	Solid plastic bearings with RJM-01
12	22	18	35.0	6	52	42	30	20	10	5.3	**RGAS-01-12**	**RGAS-03-12**	**RGAS-04-12**
16	26	22	40.5	7	56	46	34	22	11	5.3	**RGAS-01-16**	**RGAS-03-16**	**RGAS-04-16**
20	32	25	48.0	8	70	58	40	28	14	6.4	**RGAS-01-20**	**RGAS-03-20**	**RGAS-04-20**
25	40	30	58.0	10	80	68	50	40	20	6.4	**RGAS-01-25**	**RGAS-03-25**	**RGAS-04-25**
30	47	35	67.0	10	88	76	58	48	24	6.4	**RGAS-01-30**	**RGAS-03-30**	**RGAS-04-30**
40	62	45	85.0	12	108	94	74	56	28	8.4	**RGAS-01-40**	**RGAS-03-40**	**RGAS-04-40**

Are equipped with:


RJUM-01


RJUM-03


RJM-01

Available with drylin® liners (optional: J200/A180):


J

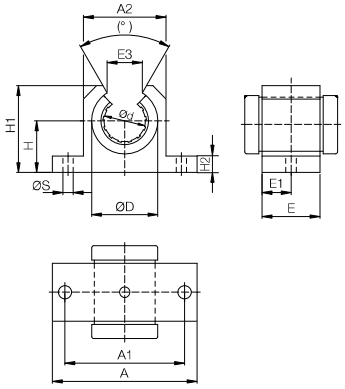

E7


X

drylin® R pillow blocks | Product range

Open, short design

- Housing: Aluminium, equipped with drylin® R linear plain bearings
- Variations:
  Standard: OGAS-01-Ø
  Self-aligning: OGAS-03-Ø



Order key

Type	Option	Size
O G A S - 01		- 12

Type: Linear housing with OJUM bearing; Aluminium housing; Small; Standard with OJUM-01

Option: Inner Ø

Options:
01: Standard with OJUM-01
03: with OJUM-03

Please note:
Installation instructions
▶ Page 1079

Dimensions [mm]

d	D	H	H1	H2	A	A1	A2	E	E1	E3	(°)	S	Part No. Standard with OJUM-01	Self-aligning with OJUM-03
12	22	18	28	6	52	42	30	20	10	14	78	5.3	**OGAS-01-12**	**OGAS-03-12**
16	26	22	33.5	7	56	46	34	22	11	17	78	5.3	**OGAS-01-16**	**OGAS-03-16**
20	32	25	42	8	70	58	40	28	14	17	60	6.4	**OGAS-01-20**	**OGAS-03-20**
25	40	30	51	10	80	68	50	40	20	21	60	6.4	**OGAS-01-25**	**OGAS-03-25**
30	47	35	60	10	88	76	58	48	24	21	54	6.4	**OGAS-01-30**	**OGAS-03-30**
40	62	45	77	12	108	94	74	56	28	27	54	8.4	**OGAS-01-40**	**OGAS-03-40**

Are equipped with:


OJUM-01


OJUM-03

Available with drylin® liners (optional: J200/A180):


J


E7


X

igus® testing method for measuring the tolerance of drylin® linear plain bearings

To ensure the correct function of a drylin® linear plain bearing, it is necessary to use the bearing with a defined minimum oversize (bearing clearance). The quality control of this part is carried out with a plug gauge test. For this purpose, specific force is defined with which the plug gauge is loaded when the plain bearing is tested.

Part No.	Test force [N]	Øi test housing	Min. bearing Øi (plug gauge falls)	Max. bearing Øi (plug gauge sticks)
J / J200 / E7 / A180 / A160UM-01/02-10	0.981	12.000mm	10.030mm	10.070mm
J / J200 / E7 / A180 / A160UM-01/02-12	1.373	14.000mm	12.030mm	12.070mm
J / J200 / E7 / A180 / A160UM-01/02-16	1.864	18.000mm	16.030mm	16.070mm
J / J200 / E7 / A180 / A160UM-01/02-20	2.649	23.000mm	20.030mm	20.070mm
J / J200 / E7 / A180 / A160UM-01/02-25	3.729	28.000mm	25.030mm	25.070mm
J / J200 / E7 / A180 / A160UM-01/02-30	4.807	34.000mm	30.040mm	30.090mm
J / J200 / E7 / A180 / A160UM-01/02-40	7.063	44.000mm	40.040mm	40.090mm
J / J200 / E7 / A180 / A160UM-01/02-50	9.810	55.000mm	50.050mm	50.150mm
J / J200 / E7UM-01/02-60	13.047	65.000mm	60.050mm	60.150mm
JUI-01-06	0.981	0.4684in	0.3768in	0.3776in
JUI-01-08	1.373	0.5934in	0.5016in	0.5024in
JUI-01-10	1.864	0.7184in	0.6268in	0.6276in
JUI-01-12	2.649	0.8747in	0.7516in	0.7524in
JUI-01-16	3.729	1.1247in	1.0016in	1.0024in
JUI-01-20	4.807	1.4058in	1.2520in	1.2531in
JUI-01-24	7.063	1.6558in	1.5020in	1.5031in
JUI-01-32	9.810	2.1870in	2.0024in	2.0039in
RJM / RJMP / RJ4JP-01-08	–	16.000mm	8.025mm	8.061mm
RJM / RJMP / RJ4JP-01-10	–	19.000mm	10.025mm	10.061mm
RJM / RJMP / RJ4JP-01-12	–	22.000mm	12.032mm	12.075mm
RJM / RJMP / RJ4JP-01-16	–	26.000mm	16.032mm	16.075mm
RJM / RJMP / RJ4JP-01-20	–	32.000mm	20.040mm	20.092mm
RJM / RJMP / RJ4JP-01-25	–	40.000mm	25.040mm	25.092mm
RJM / RJMP / RJ4JP-01-30	–	47.000mm	30.040mm	30.092mm
RJM / RJMP-01-40	–	62.000mm	40.050mm	40.112mm
RJI-01-06	0.981	0.6250in	0.3762in	0.3776in
RJI-01-08	1.373	0.8750in	0.5013in	0.5030in
RJI-01-10	1.864	1.1250in	0.6265in	0.6282in
RJI-01-12	2.649	1.2500in	0.7516in	0.7536in
RJI-01-16	3.729	1.5625in	1.0035in	1.0056in
RJI-01-20	4.807	2.0000in	1.2520in	1.2544in
RJI-01-24	7.063	2.3750in	1.5020in	1.5044in
RJI-01-32	9.810	3.0000in	2.0024in	2.0053in
RJ260(U)M-02-12	–	19.000mm	12.032mm	12.084mm
RJ260(U)M-02-16	–	24.000mm	16.032mm	16.084mm
RJ260(U)M-02-20	–	28.000mm	20.040mm	20.100mm
RJ260(U)M-02-25	–	35.000mm	25.040mm	25.100mm

Part No.	Test force [N]	Øi test housing	Min. bearing Øi (plug gauge falls)	Max. bearing Øi (plug gauge sticks)
XUMO-01-10	0.981	12.000mm	9.98mm	10.02mm
XUM-01/02-12	1.373	14.000mm	12.02mm	12.06mm
XUM-01-14	1.500	16.000mm	14.02mm	14.06mm
XUM-01/02-16	1.864	18.000mm	16.02mm	16.06mm
XUM-01/02-20	2.649	23.000mm	20.03mm	20.07mm
XUM-01/02-25	3.729	28.000mm	24.97mm	25.01mm
XUM-01/02-30	4.807	34.000mm	29.96mm	30.01mm
XUM-01/02-40	7.063	44.000mm	40.00mm	40.05mm

Explanation:
The iglidur® X material has a higher stiffness than iglidur® J. This causes shifts – depending on the diameter – compared to the ratio of test force to LD diameter. The parts are designed in such a way that under load the clearance between the iglidur® X and iglidur® J plain bearings is as identical as possible. Thereby in the use of iglidur® X liners, increased shifting forces can occur in the unloaded new condition on an h-toleranced shaft.

When using a plain bearing (e.g. JUM/RJM) in connection with an adapter/ housing (e.g. RJUM, OJUM, RGA) the factory tolerance of the housing hole (standard case: H7) is also added to the minimum clearance stated above. The total from these two values then produces the maximum possible bearing tolerance.

The effective bearing clearance is also influenced by the shaft tolerance. The maximum shaft undersize value should be added to give the maximum possible clearance.

F_{max} dynamic:
The maximum values are the result of the projected surface and 5MPa surface pressure.

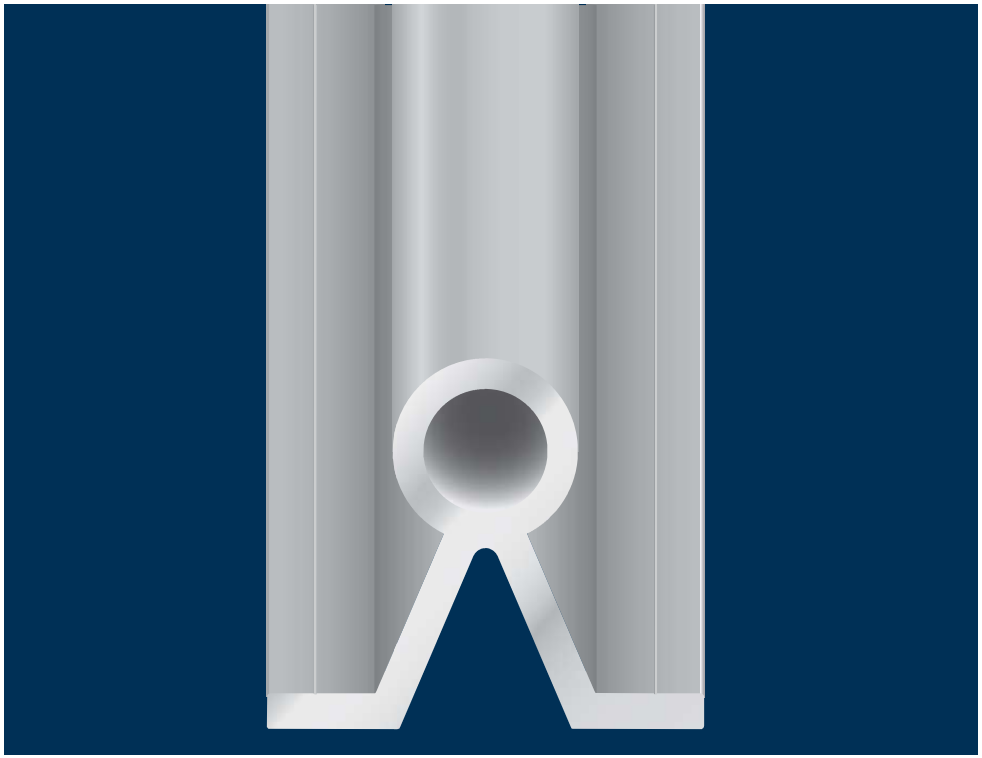
F_{max} static:
The maximum values are the result of the projected surface and 35MPa surface pressure.

Installation instructions ▶ Page 1079

Tightening torque for drylin® connections between metal parts

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

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



drylin® linear technology – drylin® shafts

Hard-anodised aluminium shafts for optimum running performance

Stainless steel for high corrosion resistance

Hardened steel and stainless steel shafts

Carbon fibre shafts

Round shafts with or without support

drylin® shafts | Advantages

Suitable liner materials:

	 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
Potential counter partner	All shaft materials	Hard-anodised aluminium	Hardened stainless steel	Steel/stainless steel shaft	All shaft materials	Stainless steel
Application temperature	from –50°C to +90°C	from –50°C to +90°C	from –100°C to +250°C	from –50°C to +70°C	from –50°C to +90°C	from –50°C to +90°C
Best coefficient of friction with	Steel shaft	Hard-anodised aluminium	Hard-chromed steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Maximum service life with	Hard-anodised aluminium	Hard-anodised aluminium	Hardened stainless steel	Steel/stainless steel shaft	Stainless steel shaft	Hardened stainless steel shafts
Permissible stat. surface pressure	35MPa	23MPa	150MPa	18MPa	28MPa	15MPa
Moisture absorption	1.3% weight	0.7% weight	0.5% weight	< 0.1% weight	0.2% weight	< 0.1% weight
Volume resistance	> 10^{13}Ωcm	> 10^{3}Ωcm	< 10^{5}Ωcm	> 10^{9}Ωcm	> 10^{12}Ωcm	> 10^{12}Ωcm
More information	▶ Page 159	▶ Page 261	▶ Page 279	▶ Page 267	▶ Page 401	▶ Page 419

Available shaft materials:

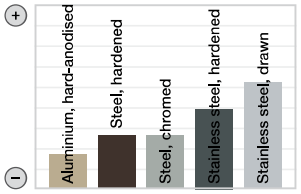
Aluminium
- Ideal in combination with liners made from iglidur® J/J200
- Lightweight
- Low wear
- Corrosion-free
- Available from stock

Steel
- E7 liners for up to 8 times longer service life
- Cost-effective standard
- High load capacity
- Dry area applications
- Hard chrome-plated also available
- Lower coefficient of friction against plastic bearings

Stainless steel
- A180 liners for food and pharmaceutical applications
- Corrosion resistance
- High chemical resistance
- Ideal solution for wet applications
- 316 stainless steel for extremely chemical intensive applications

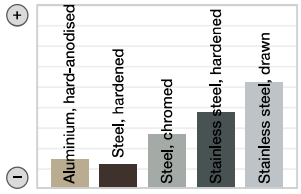
Please remember that this is a technical surface. Small colour variations are possible due to variable coating depths.

Wear



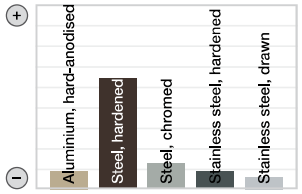
iglidur® J against particular shaft materials

Coefficient of friction



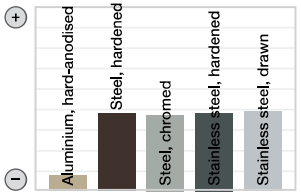
iglidur® J against particular shaft materials

Corrosion



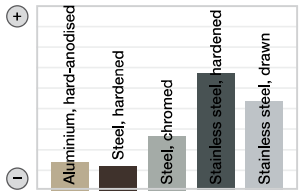
iglidur® J against particular shaft materials

Weight



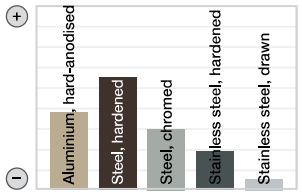
iglidur® J against particular shaft materials

Cost



iglidur® J against particular shaft materials

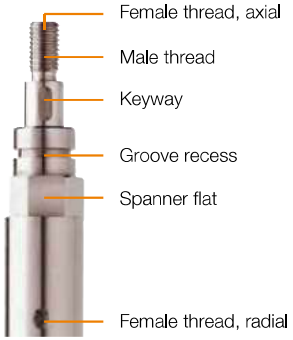
Chemical charge



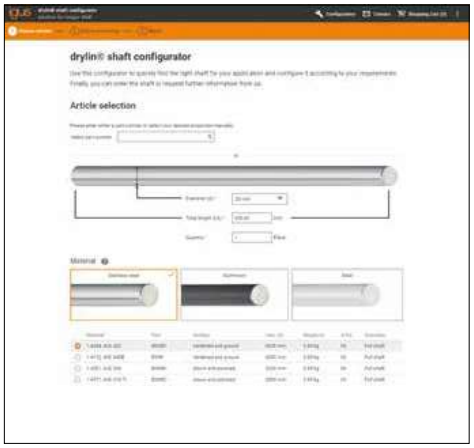
iglidur® J against particular shaft materials

drylin® shafts | Product range New

Inquiries can be put online as well:
▶ **www.igus-asean.com/shaftinquiry**



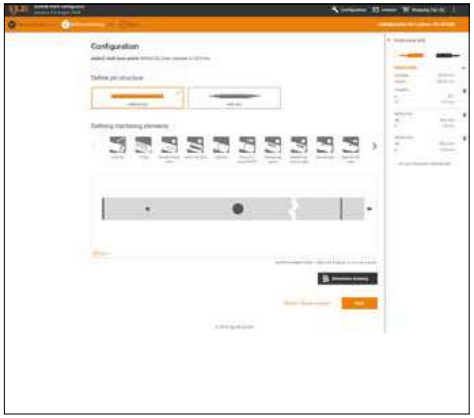
Special machining
All shafts can be individually machined. Please send us your drawing. We can then provide a quotation quickly.

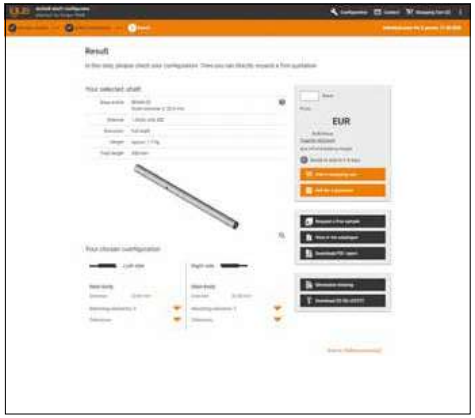


Configurator for guide shafts: guide shafts with machining – anyone can configure online

With this online tool, guide shafts with and without machining can be individually configured and ordered. Fast and easy with no previous CAD experience. All in all, the tool makes it possible to order 7 shaft materials from Ø 6 to 50mm. Order online, delivered quickly.
- Add chamfers with just one click
- Offset machined end possible
- Radial and axial holes, with or without female thread
- With plausibility check
- Live price display

▶ **www.igus-asean.com/shaft-configurator**





drylin® shafts | Product range

Material	Aluminium			Steel			
	●	⚲	○	●	⚲⚲	●	⚲⚲
Designation							
	AWMP AWMPV	AWMU	AWMR	SWM	SWUM SWUMN	SWMH	SWUMH SWUMHN
Material							
	EN AW 6061/6060			AISI 1055		1.1213 HV	
Availability							
Ø 6	●			▲		▲	
Ø 8	●			▲		▲	
Ø 10	●	●		▲		▲	
Ø 12	●	●	●	▲	▲	▲	▲
Ø 16	●	●	●	▲	▲	▲	▲
Ø 20	●	●	●	▲	▲	▲	▲
Ø 25	●	●	●	▲	▲	▲	▲
Ø 30	●[164]/ ●	●		▲	▲	▲	▲
Ø 40	●[164]/ ●	●		▲	▲	▲	▲
Ø 50	●[164]			▲	▲	▲	▲
Ø 60	●[164]						
Ø Tolerance							
	h8	–0.1mm	h9	h6	h6	h7	h7
Max. supply length Ø 8–10mm							
	3,000	–	–	3,000	–	–	3,000
Max. supply length Ø 12–50mm							
	3,000	4,000	3,000	6,000	6,000	6,000	6,000
Surface							
	hard-anodised			hardened/ground		hard chromed	
Surface roughness Ra							
	< 0.6			0.15–0.3			
Hardness							
	up to 550 HV			60+4 HRC			
Roundness							
	≤ 1/2 Ø Tolerance			≤ 1/2 Ø Tolerance			

	Stainless steel, hardened				Drawn stainless steel			Carbon fibre
	●	⚲⚲	●	⚲⚲	●	● ⚲	● ⚲	○
	EWM	EWUM EWUMN	EEWM	EEWUM EEWUMN	EWMR	EWMS	EWUMS	CWM
	AISI 440B		AISI 420		AISI 304	AISI 316Ti		CFK Composite
Ø 6	▲		▲		▲	▲		
Ø 8	▲		▲		▲	▲		
Ø 10	▲		▲		▲	▲		
Ø 12	▲	▲	▲	▲	▲	▲	▲	▲
Ø 16	▲	▲	▲	▲	▲	▲	▲	▲
Ø 20	▲	▲	▲	▲	▲	▲	▲	▲
Ø 25	▲	▲	▲	▲	▲	▲	▲	
Ø 30	▲	▲	▲	▲	▲	▲	▲	▲
Ø 40	▲	▲	▲		▲	▲	▲	
Ø 50	▲	▲	▲	▲	▲			
Ø 60								
	h6	h6	h6	h6	h9	h9	h9	–0.1mm
	–	–	3,000	–	–	–	–	2,000
	6,000	6,000	6,000	6,000	3,000	3,000	3,000	2,000
	hardened/ground				drawn, polished			UCU unidirectional/ cross winding/ unidirectional
	0.15–0.3				0.3–0.6			< 0.6µm
	52+8 HRC				soft			–
	≤ 1/2 Ø Tolerance				≤ 1/2 Ø Tolerance			± 0.05mm

Delivery time: ● From stock ▲ simply cut shafts 3–8 days; machined shafts 12 days

[164] Hollow profile 30 · 7.5; 40 · 10; 50 · 11

drylin® shafts | Product range

Precision aluminium shafts

AWMR AWMP

Order key

Type	Size	Options
AW M P -	06 -	2000

Aluminium shaft | Metric | Precise | Outer Ø | Shaft length [mm]

AWMP:
Solid shaft up to Ø 25mm
Hollow shaft from Ø 30mm
AWMR:
Tube

igus® recommendation: Linear plain bearings equipped with iglidur® J200 liners for the longest service life

- Material: EN AW 6061/6060
- Straightness: EN 754-3
- Hardness: 75 HB
- Surface: hard-anodised
- Hardness: up to 550 HV
- Imperial shafts available upon request

Hard-anodised surfaces
▶ Page 958
Minimum saw lengths
▶ Page 961

Please contact us!
drylin® shafts can be individually machined.
Please send us your drawing or configure online.
We can then provide a quotation quickly.
▶ **www.igus-asean.com/shaft-configurator**

Dimensions [mm]

Part No.	Design	Outer Ø	Tolerance	Insulation thickness	Inner Ø	Max. length	Weight [kg/m]
AWMP-06	Solid shaft	6	h8	–	–	3,000	0.08
AWMP-08	Solid shaft	8	h8	–	–	3,000	0.14
AWMP-10	Solid shaft	10	h8	–	–	3,000	0.22
AWMP-12	Solid shaft	12	h8	–	–	3,000	0.32
AWMR-12	Tube	12	h8	2	8	3,000	0.17
AWMP-16	Solid shaft	16	h8	–	–	3,000	0.56
AWMR-16	Tube	16	h8	2	12	3,000	0.25
AWMP-20	Solid shaft	20	h8	–	–	3,000	0.88
AWMR-20	Tube	20	h9	2	16	3,000	0.32
AWMP-25	Solid shaft	25	h8	–	–	3,000	1.37
AWMR-25	Tube	25	h9	3	19	3,000	0.59
AWMP-30	Hollow shaft	30	h8	7.5	15	3,000	1.48
AWMPV-30	Solid shaft	30	h8	–	–	3,000	1.9
AWMP-40	Hollow shaft	40	h8	10	20	3,000	2.63
AWMPV-40	Solid shaft	40	h8	–	–	3,000	3.4
AWMP-50	Hollow shaft	50	h8	11	28	3,000	3.75
AWMP-60	Hollow shaft	60	h8	11	38	3,000	4.7

Order example:
AWMP-12-500: Precision aluminium shaft, 12mm Ø, 500mm length

drylin® shafts

drylin® shafts | Product range

Supported aluminium shafts

AWMU

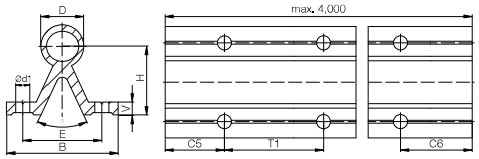
Order key

Type	Size	Options
AW M U -	12 -	2000

Aluminium shaft | Metric | Supported | Outer Ø | Shaft length [mm]

- Material: EN AW 6061/6060
- Straightness: DIN 12020
- Hardness: 75 HB
- Surface: hard-anodised
- Hardness: up to 550 HV
- Symmetrical standard hole pattern C5 = C6

Hard-anodised surfaces
▶ Page 958
Minimum saw lengths
▶ Page 961



Dimensions [mm]

Part No.	D –0.1	B	H ±0.25	V	d1	(°)	E ±0.25	T1	C5/C6 Min.	C5/C6 Max.	Max. length	Weight [kg/m]	Iy [mm⁴]	Iz [mm⁴]	Wby [mm³]	Wbz [mm³]
AWMU-12	12	40	22	5	4.5	50	29	75	20	57	4,000	0.75	26,600	19,700	1,330	1,091
AWMU-16	16	45	26	5	5.5	50	33	100	20	69	4,000	1.00	40,000	39,200	1,778	1,844
AWMU-20	20	52	32	6	6.6	50	37	100	20	69	4,000	1.42	76,600	86,200	2,946	3,336
AWMU-25	25	57	36	6	6.6	50	42	120	20	79	4,000	1.81	109,800	146,700	3,853	5,103
AWMU-30	30	69	42	7	9.0	50	51	150	20	94	4,000	2.69	226,900	328,700	6,577	10,049
AWMU-40[86]	40	73	50	8	9.0	50	55	200	20	119	4,000	4.06	382,100	734,800	10,468	19,160

[86] The tolerance for the shaft diameter D amounts –0.15

Order example:
AWMU-16-500: supported aluminium shaft, 16mm Ø, 500mm length

drylin® shafts | Product range

Standard steel shafts

SWM SWUMN SWUM

- Completely supported and mounted with standard aluminium support
- Available shaft materials:
  - ▶ Cf53 steel (AISI 1055), hardened/ground
  - ▶ Cf53 steel (AISI 1055), hard-chromed
- For supported shafts:
  - ▶ Partial shaft support supplied in lengths of 600mm max.
  - ▶ Standard pitch T2, T1 also possible upon request
  - ▶ Symmetrical hole pitches C5 = C6

Order key

Type	Size	Options
SW M-	06	-2000
Steel shaft	Metric	Outer Ø	Shaft length [mm]

igus® recommendation: Linear plain bearings equipped with iglidur® E7 liners for 8 times longer service life

Dimensions [mm] – steel shafts 1.1213

Part No.	Outer Ø	Weight [kg/m]	Max. length	Effective hardness depth (at 1.1213)
SWM-06	6	0.222	3,000	0.8
SWM-08	8	0.359	4,000	0.9
SWM-10	10	0.617	4,000	0.9
SWM-12	12	0.888	6,000	1.0
SWM-16	16	1.578	6,000	1.2
SWM-20	20	2.466	6,000	1.6
SWM-25	25	3.853	6,000	1.8
SWM-30	30	5.549	6,000	2.0
SWM-40	40	9.865	6,000	2.2
SWM-50	50	15.413	6,000	2.4

Dimensions [mm] – hard-chromed steel shafts 1.1213

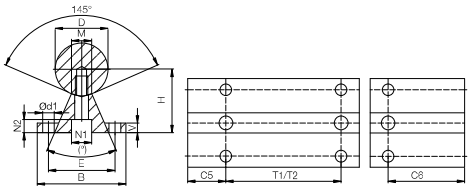
Part No.	Outer Ø	Weight [kg/m]	Max. length	Effective hardness depth (at 1.1213)
SWMH-06	6	0.222	3,000	0.8
SWMH-08	8	0.359	4,000	0.9
SWMH-10	10	0.617	4,000	0.9
SWMH-12	12	0.888	6,000	1.0
SWMH-16	16	1.578	6,000	1.2
SWMH-20	20	2.466	6,000	1.6
SWMH-25	25	3.853	6,000	1.8
SWMH-30	30	5.549	6,000	2.0
SWMH-40	40	9.865	6,000	2.2
SWMH-50	50	15.413	6,000	2.4

Order example:
SWM-16-500: steel shaft 16mm Ø 1.1213, 500mm in length

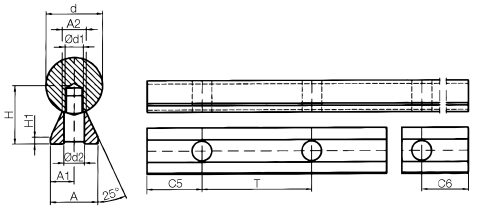
drylin® shafts | Product range

Supported standard steel shaft

SWUM



SWUMN



Please contact us!
drylin® shafts can be individually machined. Please send us your drawing or configure online. We can then provide a quotation quickly.
▶ **www.igus-asean.com/shaft-configurator**

Dimensions [mm] – supported steel shafts 1.1213

Part No.	D	B	H ±0.02	V	N1	N2	d1	M	(°)	E	T1 ±0.15	C5/C6 Min. for T1	C5/C6 Max. for T1	T2 Standard	C5/C6 Min. for T2 Standard	C5/C6 Max. for T2 Standard	Weight [kg/m]
SWUM-12	12	40	22	5	8.0	5.0	4.5	5.8	50	29	75	20	57	120	20	79	1.75
SWUM-16	16	45	26	5	9.5	6.0	5.5	7.0	50	33	100	20	69	150	20	94	2.64
SWUM-20	20	52	32	6	11.0	6.5	6.6	8.3	50	37	100	20	69	150	20	94	3.97
SWUM-25	25	57	36	6	14.0	8.5	6.6	10.8	50	42	120	20	79	200	20	119	5.65
SWUM-30	30	69	42	7	17.0	10.5	9.0	11.0	50	51	150	20	94	200	20	119	7.93
SWUM-40	40	73	50	8	17.0	10.5	9.0	15.0	50	55	200	20	119	300	20	169	12.88
SWUM-50	50	84	60	9	19.0	12.5	11.0	19.0	46	63	200	20	119	300	20	169	19.60

Dimensions [mm] – supported steel shafts 1.1213

Part No.	d	H	H1 ±0.02	A	A1	A2 ±0.02	d1	d2	T	C5/C6 Min.	C5/C6 Max.	Weight [kg/m]
SWUMN-12	12	14.5	3	11	5.5	5.4	M4	4.5	75	20	57	1.62
SWUMN-16	16	18	3	14	7.0	7.0	M5	5.5	75	20	57	2.54
SWUMN-20	20	22	3	17	8.5	8.1	M6	6.6	75	20	57	3.81
SWUMN-25	25	26	3	21	10.5	10.3	M8	9.0	75	20	57	5.62
SWUMN-30	30	30	3	23	11.5	11.0	M10	11.0	100	20	69.5	7.63
SWUMN-40	40	39	4	30	15.0	15.0	M12	13.5	100	20	69.5	13.47
SWUMN-50	50	46	5	35	17.5	19.0	M14	15.5	100	20	69.5	20.31

Low level supported shafts are delivered unmounted.

Order example:
SWUM-16-500: supported steel shaft 16mm Ø made from 1.1213, 500mm length

drylin® shafts | Product range

Stainless steel shafts

EWM EEWM EWMR

STAIN-LESS STEEL

igus® recommendation: Linear plain bearings equipped with iglidur® E7 liners for 8 times longer service life

Please contact us!
drylin® shafts can be individually machined.
Please send us your drawing or configure online.
We can then provide a quotation quickly.
▶ **www.igus-asean.com/shaft-configurator**

Dimensions [mm] – hardened stainless steel AISI 440B

Part No.	Outer Ø	Weight [kg/m]	Max. length	Effective hardness depth
EWM-06	6	0.222	3,000	0.8
EWM-08	8	0.359	4,000	0.9
EWM-10	10	0.617	4,000	0.9
EWM-12	12	0.888	6,000	1.0
EWM-16	16	1.578	6,000	1.2
EWM-20	20	2.466	6,000	1.6
EWM-25	25	3.853	6,000	1.8
EWM-30	30	5.549	6,000	2.0
EWM-40	40	9.865	6,000	2.2
EWM-50	50	15.413	6,000	2.4

drylin® shafts | Product range

Materials: AISI 440B, AISI 420C, AISI 304, AISI 316Ti

Order key

Type	Size	Options
EW M-	06	-2000
Steel shaft	Metric	Outer Ø	Shaft length [mm]

Available shaft materials
AISI 440B, hardened/ground ▶ EWM
AISI 420C, hardened/ground ▶ EEWM
AISI 304, drawn ▶ EWMR
AISI 316Ti, drawn ▶ EWMS

Dimensions [mm] – hardened stainless steel AISI 420C

Part No.	Outer Ø	Weight [kg/m]	Max. length	Effective hardness depth
EEWM-06	6	0.222	3,000	0.8
EEWM-08	8	0.359	4,000	0.9
EEWM-10	10	0.617	4,000	0.9
EEWM-12	12	0.888	6,000	1.0
EEWM-16	16	1.578	6,000	1.2
EEWM-20	20	2.466	6,000	1.6
EEWM-25	25	3.853	6,000	1.8
EEWM-30	30	5.549	6,000	2.0
EEWM-40	40	9.865	6,000	2.2
EEWM-50	50	15.413	6,000	2.4

Dimensions [mm] – stainless steel AISI 304 (EWMR) or AISI 316Ti soft stainless steel (EWMS)

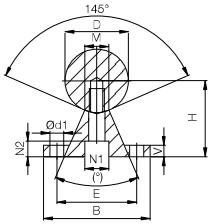
Part No.		Outer Ø	Weight [kg/m]	Max. length
EWMR-06	EWMS-06	6	0.222	3,000
EWMR-08	EWMS-08	8	0.359	3,000
EWMR-10	EWMS-10	10	0.617	3,000
EWMR-12	EWMS-12	12	0.888	3,000
EWMR-16	EWMS-16	16	1.578	3,000
EWMR-20	EWMS-20	20	2.466	3,000
EWMR-25	EWMS-25	25	3.853	3,000
EWMR-30	EWMS-30	30	5.549	3,000
EWMR-40	EWMS-40	30	5.549	3,000
EWMR-50		30	5.549	3,000

Order example:
EWM-16-500: Stainless steel shaft (AISI 440B) with 16mm Ø, 500mm in length

drylin® shafts | Product range

Supported stainless steel shafts

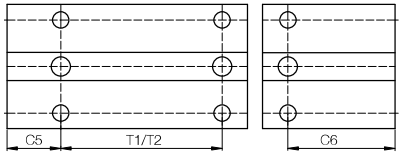
EWUM



STAIN-LESS STEEL

igus® recommendation: Linear plain bearings equipped with iglidur® E7 liners for 8 times longer service life

- Completely supported and mounted with standard aluminium support
- For supported shafts:
  - ▶ Shaft support supplied in lengths of 600mm max.
  - ▶ Standard pitch T2, T1 also possible upon request
  - ▶ Symmetrical hole pitches C5 = C6



Dimensions [mm] – supported stainless steel shafts AISI 440B

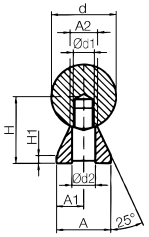
Part No.	D	B	H	V	N1	N2	d1	M	(°)	E	T1	C5/C6		T2	C5/C6		Weight
												Min.	Max.		Min.	Max.	
			±0.02								±0.15	for T1		Standard	for T2 Standard		[kg/m]
EWUM-12	12	40	22	5	8.0	5.0	4.5	5.8	50	29	75	20	57	120	20	79	1.75
EWUM-16	16	45	26	5	9.5	6.0	5.5	7.0	50	33	100	20	69	150	20	94	2.64
EWUM-20	20	52	32	6	11.0	6.5	6.6	8.3	50	37	100	20	69	150	20	94	3.97
EWUM-25	25	57	36	6	14.0	8.5	6.6	10.8	50	42	120	20	79	200	20	119	5.65
EWUM-30	30	69	42	7	17.0	10.5	9.0	11.0	50	51	150	20	94	200	20	119	7.93
EWUM-40	40	73	50	8	17.0	10.5	9.0	15.0	50	55	200	20	119	300	20	169	12.88
EWUM-50	50	84	60	9	19.0	12.5	11.0	19.0	46	63	200	20	119	300	20	169	19.60

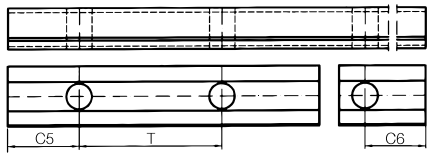
Order example:
EWUM-16-500-T1: Supported stainless steel shaft (AISI 440B) with 16mm outer Ø 500mm length, T1 pitch

drylin® shafts | Product range

Low level supported stainless steel shafts

EWUMN





Order key

Type	Size	Options
EWUMN-	20	-2000-T1

- Type: Low level supported stainless steel shaft, metric
- Size: Outer Ø
- Options: Shaft length [mm]; Hole pattern

EWUM: Supported stainless steel shaft
EWUMN: Low level supported stainless steel shaft

Available materials and lengths:
AISI 440B, max. 6,000mm

Hole pattern:
T2: T2 pitch (standard)
T1: T1 pitch (upon request)

Dimensions [mm] – low level supported stainless steel shafts AISI 440B

Part No.	Outer Ø	H	H1	A	A1	A2	d1	d2	T	C5/C6		Weight
	d	±0.02				±0.02				Min.	Max.	[kg/m]
EWUMN-12	12	14.5	3	11	5.5	5.4	M4	4.5	75	20	57	1.62
EWUMN-16	16	18	3	14	7.0	7.0	M5	5.5	75	20	57	2.54
EWUMN-20	20	22	3	17	8.5	8.1	M6	6.6	75	20	57	3.81
EWUMN-25	25	26	3	21	10.5	10.3	M8	9.0	75	20	57	5.62
EWUMN-30	30	30	3	23	11.5	11.0	M10	11.0	100	20	69.5	7.63
EWUMN-40	40	39	4	30	15.0	15.0	M12	13.5	100	20	69.5	13.47
EWUMN-50	50	46	5	35	17.5	19.0	M14	15.5	100	20	69.5	20.31

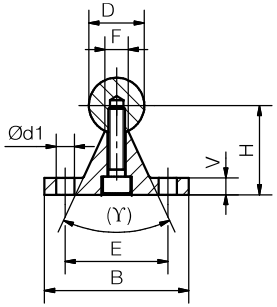
Low level supported shafts are delivered unmounted.

Order example:
EWUMN-16-500: Low level supported stainless steel shaft (AISI 440B) with 16mm outer Ø, 500mm length

drylin® shafts | Product range

Partially supported stainless steel shafts

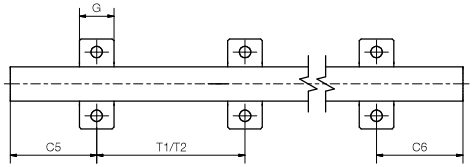
EWUM-ES/
EWUMS-ES



igus® recommendation: Linear plain bearings equipped with iglidur® E7 liners for 8 times longer service life

Standard shaft support blocks made of stainless steel
- Connection sizes are identical to aluminium supports

▶ Page 1160



drylin® shafts

drylin® shafts | Product range

STAIN-LESS STEEL

Order key

Type	Size	Options
EWUMS-ES-	20	-500-T2

Partially supported stainless steel shaft, metric	Material	Outer Ø	Shaft length [mm]	Hole pattern

Available materials and lengths:
AISI 440B, max. 6,000mm
▶ EWUM
AISI 316Ti, max. 3,000mm
▶ EWUMS

Options:
Blank: AISI 440B material
S: AISI 316Ti
Hole pattern:
T2: T2 pitch (standard)
T1: T1 pitch

Dimensions [mm] – partially supported stainless steel shafts AISI 440B

Part No.	D h6	B	H ±0.02	V	d1	E	ϒ	F	G	T1	C5/C6 for T1 Min.	C5/C6 for T1 Max.	T2 Standard	C5/C6 for T2 Min.	C5/C6 for T2 Max.
EWUM-ES-12	12	40	22	5	4.5	29	–	5.8	14	75	20	57	120	20	79
EWUM-ES-16	16	45	26	5	5.5	33	–	7.0	16	100	20	69	150	20	94
EWUM-ES-20	20	52	32	6	6.6	37	50°	8.3	20	100	20	69	150	20	94
EWUM-ES-25	25	57	36	6	6.6	42	–	10.8	25	150	20	79	200	20	119
EWUM-ES-30	30	69	42	7	9.0	51	–	11.0	25	150	20	94	200	20	119
EWUM-ES-40	40	73	50	8	9.0	55	–	15.0	25	200	20	119	300	20	169

Order example:
EWUM-ES-20-500, partially supported stainless steel shaft (shaft and support made of stainless steel), AISI 440B material, T2 pitch, outer Ø 20mm, L = 500mm

Dimensions [mm] – partially supported stainless steel shafts AISI 316Ti

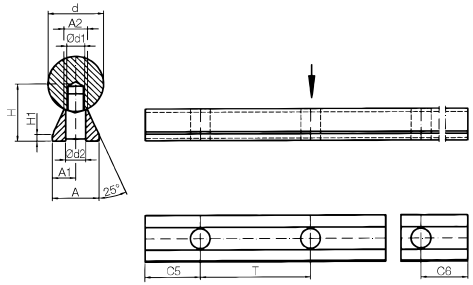
Part No.	D h6	B	H ±0.02	V	d1	E	ϒ	F	G	T1	C5/C6 for T1 Min.	C5/C6 for T1 Max.	T2 Standard	C5/C6 for T2 Min.	C5/C6 for T2 Max.
EWUMS-ES-12	12	40	22	5	4.5	29	–	5.8	14	75	20	57	120	20	79
EWUMS-ES-16	16	45	26	5	5.5	33	–	7.0	16	100	20	69	150	20	94
EWUMS-ES-20	20	52	32	6	6.6	37	50°	8.3	20	100	20	69	150	20	94
EWUMS-ES-25	25	57	36	6	6.6	42	–	10.8	25	150	20	79	200	20	119
EWUMS-ES-30	30	69	42	7	9.0	51	–	11.0	25	150	20	94	200	20	119
EWUMS-ES-40	40	73	50	8	9.0	55	–	15.0	25	200	20	119	300	20	169

Order example:
EWUM-ES-20-500, partially supported stainless steel shaft (shaft and support made of stainless steel), AISI 316Ti material, T1 pitch, outer Ø 20mm, L = 500mm

drylin® shafts | Product range

Low level partially supported stainless steel shafts

EWUMN-ES/
EWUMSN-ES



igus® recommendation: Linear plain bearings equipped with iglidur® E7 liners for 8 times longer service life

Low level shaft support blocks made of stainless steel

- Connection sizes are identical to low-level aluminium supports ▶ **Page 1161**

STAIN-LESS STEEL

Order key

Type	Size	Options
EWUMSN-ES-	20	-500-T2

- Partially supported stainless steel shaft, metric
- Material
- Outer Ø
- Shaft length [mm]
- Hole pattern

Available materials and lengths:

AISI 440B, max. 6,000mm
▶ EWUMN

AISI 316Ti, max. 3,000mm
▶ EWUMSN

Dimensions [mm] – low level partially supported stainless steel shafts AISI 440B

Part No.	d	H	H1	A	A1	A2	d1	d2	T	C5/C6		Weight
		±0,02								Min.	Max.	[kg/m]
EWUMN-ES-12	12	14.5	3	11	5.5	5.4	M4	4.2	75	20	57.0	1.00
EWUMN-ES-16	16	18.0	3	14	7.0	7.0	M5	5.2	75	20	57.0	1.76
EWUMN-ES-20	20	22.0	3	17	8.5	8.1	M6	6.2	75	20	57.0	2.77
EWUMN-ES-25	25	26.0	3	21	10.5	10.3	M8	8.2	75	20	57.0	4.35
EWUMN-ES-30	30	30.0	3	23	11.5	11.0	M10	10.2	100	20	69.5	6.01
EWUMN-ES-40	40	39.0	4	30	15.0	15.0	M12	12.5	100	20	69.5	10.80

Low-level partially supported stainless steel shafts are supplied unassembled

Order example:
EWUMN-ES-20-500: Low level partially supported stainless steel shafts. AISI 440B material, T2 pitch (standard), 20mm outer Ø, 500mm length

Dimensions [mm] – low level partially supported stainless steel shafts AISI 316Ti

Part No.	d	H	H1	A	A1	A2	d1	d2	T	C5/C6		Weight
		±0,02								Min.	Max.	[kg/m]
EWUMSN-ES-12	12	14.5	3	11	5.5	5.4	M4	4.2	75	20	57.0	1.00
EWUMSN-ES-16	16	18.0	3	14	7.0	7.0	M5	5.2	75	20	57.0	1.76
EWUMSN-ES-20	20	22.0	3	17	8.5	8.1	M6	6.2	75	20	57.0	2.77
EWUMSN-ES-25	25	26.0	3	21	10.5	10.3	M8	8.2	75	20	57.0	4.35
EWUMSN-ES-30	30	30.0	3	23	11.5	11.0	M10	10.2	100	20	69.5	6.01
EWUMSN-ES-40	40	39.0	4	30	15.0	15.0	M12	12.5	100	20	69.5	10.80

Low-level partially supported stainless steel shafts are supplied unassembled

Order example:
EWUMSN-ES-20-500-T2: Low-level partially supported stainless steel shaft. AISI 316Ti material, T2 pitch, outer Ø 20mm, length 500mm

drylin® shafts | Product range

Carbon fibre shafts

CWM

Order key

Type	Size	Options
CW	M-	12 -1000
Carbon fibre shaft	Metric	Outer Ø	Shaft length [mm]

- Material: CFK composite
- Roundness tolerance: ± 0.05mm
- Diameter tolerance: –0.1mm
- Application temperature: max. +80°C
- Colour: Black

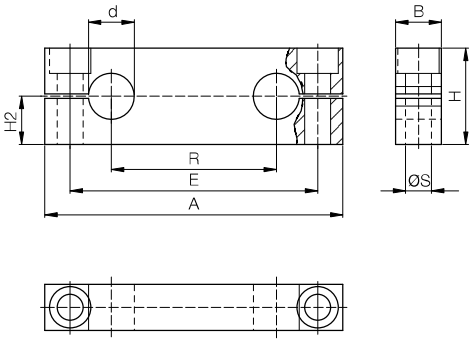
Dimensions [mm]

Part No.	Design	Outer Ø –0.1	Inner Ø –0.1	Max. length	Weight [g]
CWM-12	Hollow shaft	12	9.0	2,000	70
CWM-16	Hollow shaft	16	12.5	2,000	120
CWM-20	Hollow shaft	20	16.0	2,000	170
CWM-30	Hollow shaft	30	26.0	2,000	270

Order example:
CWM-16-500: Carbon fibre shaft, 16mm outer Ø, 500mm length

drylin® shafts | Product range

Shaft end supports, floating



Order key

Type	Size
TA	-08
Shaft end support, floating	Inner Ø

Material: aluminium
Threaded fixing hole

Dimensions [mm]

Part No.	d	A	B	H	H2 ±0.015	Ø S	E	R	Weight [g]
TA-08	8	65	12	22	11	M5	52	32	40
TA-10	10	70	12	21	10.5	M5	55	34	37
TA-12	12	85	14	28	14	M6	70	42	70
TA-16	16	100	18	32	16	M8	82	54	130
TA-20	20	130	20	42	21	M10	108	72	220
TA-25	25	160	25	52	26	M12	132	88	440
TA-30	30	180	25	58	29	M12	150	96	560
TA-40	40	230	30	72	36	M16	190	122	1,000

Order example:
TA-10: floating shaft end support with inner Ø 10mm

drylin® shafts | Product range

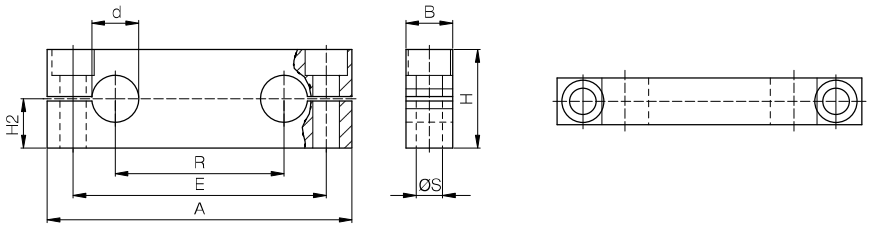
Shaft end supports, fixed

Order key

Type	Size
TA F -	08

Shaft end support | Fixed | Inner Ø

Material: aluminium
Through fixing hole



Dimensions [mm]

Part No.	d	A	B	H	H2 ±0.015	Ø S	E	R	Weight [g]
TAF-08	8	65	12	23	12.5	5.5	52	32	40
TAF-10	10	70	12	25	14.0	5.5	55	34	45
TAF-12	12	85	14	32	18.0	6.6	70	42	90
TAF-16	16	100	18	36	20.0	9.0	82	54	140
TAF-20	20	130	20	46	25.0	11.0	108	72	250
TAF-25	25	160	25	56	30.0	13.5	132	88	470
TAF-30	30	180	25	64	35.0	13.5	150	96	620
TAF-40	40	230	30	80	44.0	17.5	190	122	1,150

Order example:
TAF-12: fixed shaft end support with 12mm inner Ø

drylin® shafts | Product range

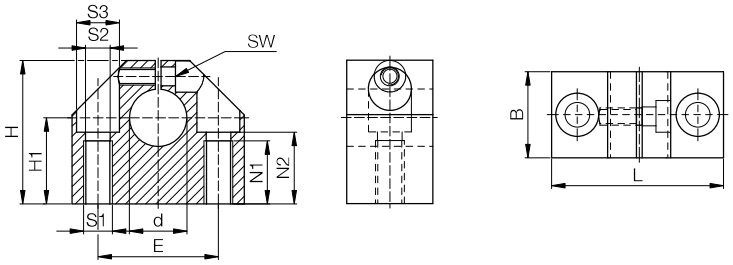
Shaft end blocks, standard design

Order key

Type	Size
WA -	08

Shaft end block Standard design | Inner Ø

Material: aluminium



Dimensions [mm]

Part No.	d	B	H	H1 ±0.02	L	S1	S2	S3	E ±0.1	N1	N2	SW	Weight [g]
WA-08	8	18	28	15	32	M4	3.3	6	22	9	13.0	2.5	40
WA-12	12	20	35	20	43	M6	5.2	10	30	13	16.5	3.0	100
WA-16	16	24	42	25	53	M8	6.8	11	38	18	21.0	4.0	150
WA-20	20	30	50	30	60	M10	8.6	15	42	22	25.0	5.0	230
WA-25	25	38	60	35	78	M12	10.3	18	56	26	30.0	6.0	410
WA-30	30	40	70	40	87	M12	10.3	18	64	26	34.0	6.0	530
WA-40	40	48	90	50	108	M16	14.25	20	82	34	44.0	8.0	990
WA-50	50	58	105	60	132	M20	17.5	26	100	43	49.0	10.0	1,250
WA-60	60	74	130	75	164	M27	22	33	124	43	59.0	10.0	2,950

Order example:
WA-08: shaft end block, standard design with inner Ø 8mm

drylin® shafts | Product range

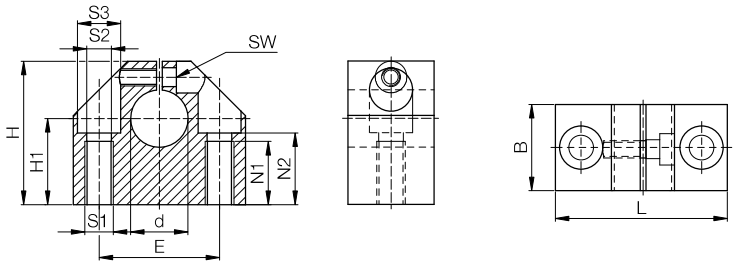
Shaft end blocks, compact design

Order key

Type	Size
WA C -	06

Shaft end block | Compact design | Inner Ø

Material: aluminium



Dimensions [mm]

Part No.	d	B	H	H1 from +0.01 to +0.02	L	S1	S2	S3	E ±0.1	N1	N2	SW	Weight [g]
WAC-06	6	16	27	15	32	M5	4.2	8	22	11	13	2.5	30
WAC-08	8	16	27	16	32	M5	4.2	8	22	11	13	2.5	30
WAC-10	10	18	33	18	40	M6	5.2	10	27	13	16	3.0	50
WAC-12	12	18	33	19	40	M6	5.2	10	27	13	16	3.0	50
WAC-14	14	20	38	20	45	M6	5.2	10	32	13	18	3.0	70
WAC-16	16	20	38	22	45	M6	5.2	10	32	13	18	3.0	70
WAC-20	20	24	45	25	53	M8	6.8	11	39	18	22	4.0	120
WAC-25	25	28	54	31	62	M10	8.6	15	44	22	26	5.0	170
WAC-30	30	30	60	34	67	M10	8.6	15	49	22	29	5.0	220
WAC-40	40	40	76	42	87	M12	10.3	18	66	26	38	6.0	480
WAC-50	50	50	92	50	103	M16	14.25	20	80	34	46	8.0	820

Order example:
WAC-12: shaft end block, compact design with inner Ø 12mm

drylin® shafts | Product range

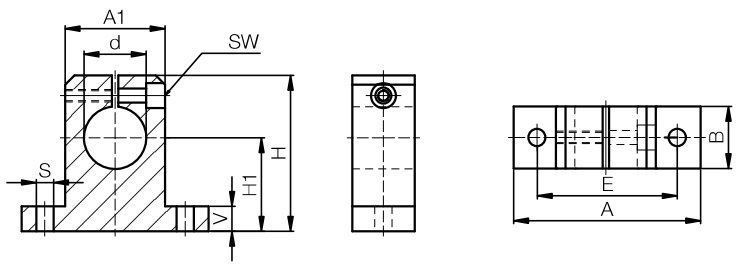
Shaft end blocks, narrow design

Order key

Type	Size
WA S -	08

Shaft end block | Narrow design | Inner Ø

Material: aluminium



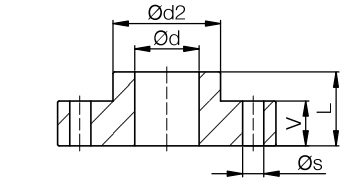
Dimensions [mm]

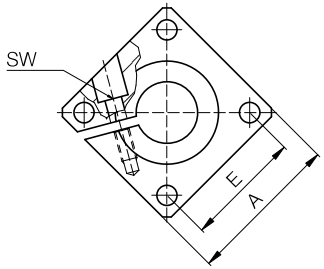
Part No.	d	H	H1 ±0.02	A	A1	B	E	S	V	SW	Weight [g]
WAS-08	8	27	15	32	16	10	25	4.5	5.0	2.5	12
WAS-12	12	35	20	42	20	12	32	5.5	5.5	3.0	23
WAS-16	16	42	25	50	26	16	40	5.5	6.5	3.0	35
WAS-20	20	50	30	60	32	20	45	5.5	8.0	4.0	67
WAS-25	25	58	35	74	38	25	60	6.6	9.0	4.0	140
WAS-30	30	68	40	84	45	28	68	9.0	10.0	5.0	200
WAS-40	40	86	50	108	56	32	86	11.0	12.0	6.0	480

Order example:
WAS-12: shaft end block, narrow design with inner Ø 12mm

drylin® shafts | Product range

Flanged shaft end block





Order key

Type	Size
WA F	-12

- Shaft end block
- With flange
- Inner Ø

Material: aluminium

Dimensions [mm]

Part No.	Ø d	A	L	Ø d2	E	Ø s	V	SW	Weight [g]
WAF-12	12	40	20	23.5	30 ± 0.12	5.5	12	3	60
WAF-16	16	50	20	27.5	35 ± 0.12	5.5	12	3	80
WAF-20	20	50	23	33.5	38 ± 0.15	6.6	14	4	100
WAF-25	25	60	25	42.0	42 ± 0.15	6.6	16	5	150
WAF-30	30	70	30	49.5	54 ± 0.15	9.0	19	6	300
WAF-40	40	100	40	65.0	68 ± 0.25	11.0	26	8	700
WAF-50	50	100	50	75.0	75 ± 0.25	11.0	36	8	1,200

Order example:
WAF-16: Flange shaft support with inner Ø 16mm

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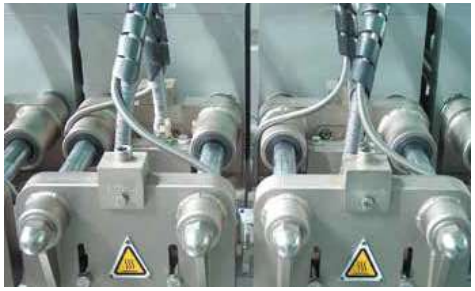
Aluminium shafts in combination with iglidur® J enable high speeds due to the lightweight.



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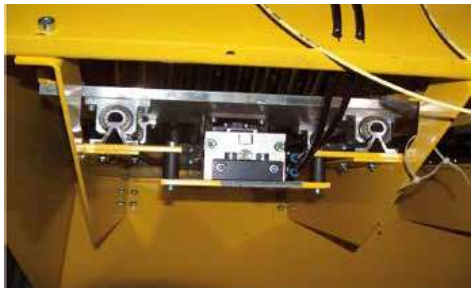

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