

The versatile endurance runner – iglidur® J

Over 250 dimensions available from stock

Low wear against different shaft materials

Low coefficients of friction running dry

Vibration dampening

Good resistance to chemicals

Best material to use with soft shaft materials

Low moisture absorption



High wear resistance on (almost) all shafts, very low coefficients of friction

Low wear against different shaft materials

Low friction when running dry

Vibration dampening

Good resistance to chemicals

Best material to use with soft shaft materials

Low moisture absorption

One main advantage of iglidur® J plain bearings is the combination of a low coefficient of friction when running dry and the low stickslip tendency. With a recommended maximum surface pressure of 35 MPa, iglidur® J plain bearings are not suitable for extreme loads.



When to use it?

- For high speeds
- For highest wear resistance at low to medium pressures
- Low wear against different shafts
- Low coefficient of friction in dry operation
- Vibration dampening
- Good chemical resistance
- Best performance with soft shaft materials
- Low moisture absorption



When not to use it?

- When high pressures occur
 - ▶ iglidur® G, page 79
 - ▶ iglidur® W300, page 153
- When short-term temperatures occur that are higher +120 °C
 - ▶ iglidur® G, page 79
 - ▶ iglidur® Z, page 255
- When a cost-effective bearing for occasional movements is necessary
 - ▶ iglidur® G, page 79

Typical application areas

- Automation
- Printing industry
- Beverage technology
- Aerospace engineering
- Clean room



Available from stock

Detailed information about delivery time online.



Block pricing online

No minimum order value. From batch size 1.



Max. +90 °C
Min. -50 °C



Ø 1.5–139 mm

More dimensions upon request



Imperial dimensions available

▶ From page 1391



Online product finder

▶ www.igus.eu/iglidur-finder

Material properties

General properties	Unit	iglidur® J	Testing method
Density	g/cm ³	1.49	
Colour		yellow	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.3	DIN 53495
Max. water absorption	% weight	1.3	
Coefficient of sliding friction, dynamic, against steel	μ	0.06–0.18	
pv value, max. (dry)	MPa · m/s	0.34	
Mechanical properties			
Flexural modulus	MPa	2,400	DIN 53457
Flexural strength at +20 °C	MPa	73	DIN 53452
Compressive strength	MPa	60	
Max. recommended surface pressure (+20 °C)	MPa	35	
Shore-D hardness		74	DIN 53505
Physical and thermal properties			
Max. long-term application temperature	°C	+90	
Max. short-term application temperature	°C	+120	
Min. long-term application temperature	°C	-50	
Heat conductivity	W/m · K	0.25	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	K ⁻¹ · 10 ⁻⁶	10	DIN 53752
Electrical properties			
Specific contact resistance	Ωcm	> 10 ¹³	DIN IEC 93
Surface resistance	Ω	> 10 ¹²	DIN 53482

Table 01: Material properties table

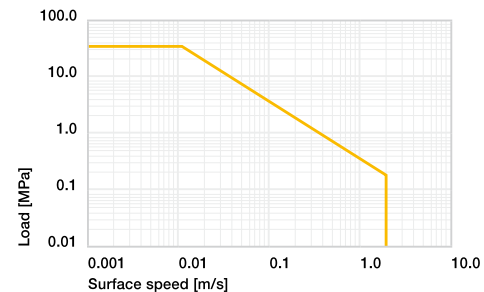


Diagram 01: Permissible pv values for iglidur® J bearings with a wall thickness of 1 mm dry running against a steel shaft, at +20 °C, mounted in a steel housing

Moisture absorption

The moisture absorption of iglidur® J plain bearings is 0.3 % weight in standard climatic conditions. The saturation limit in water is 1.3 % weight. These values are so low that design changes due to absorption are only necessary in extreme cases.

▶ Diagram, www.igus.eu/j-moisture

Vacuum

iglidur® J plain bearings outgas in a vacuum. Therefore, only dehumidified bearings are suitable in vacuum.

Radiation resistance

Plain bearings made from iglidur® J are resistant up to a radiation intensity of 3 · 10² Gy.

UV resistance

iglidur® J plain bearings become discoloured under UV radiation. However, the material properties do not change.

Medium	Resistance
Alcohol	+
Hydrocarbons	+
Greases, oils without additives	+
Fuels	+
Diluted acids	0 to –
Strong acids	–
Diluted alkalines	+
Strong alkalines	+ to 0

+ resistant 0 conditionally resistant – not resistant

All data given at room temperature [+20 °C]

Table 02: Chemical resistance

▶ Chemical table, page 1478

One main advantage of iglidur® J plain bearings is the combination of a low coefficient of friction when running dry and the low stick-slip tendency.

Mechanical properties

With increasing temperatures, the compressive strength of iglidur® J plain bearings decreases. The diagram 02 shows this inverse relationship. However, at the long-term maximum temperature of +90 °C the permissible surface pressure is almost 20 MPa. The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

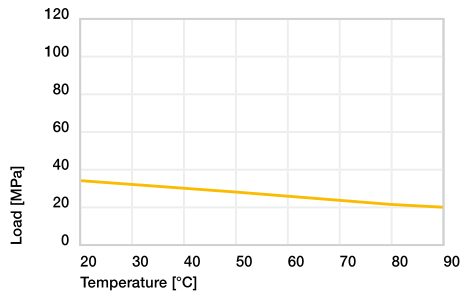


Diagram 02: Permissible maximum surface pressure of as a function of temperature (35 MPa at +20 °C)

With a recommended maximum surface pressure of 35 MPa, iglidur® J plain bearings are not suitable for extreme loads. Diagram 03 shows the elastic deformation of iglidur® J at radial loads.

► Surface pressure, page 41

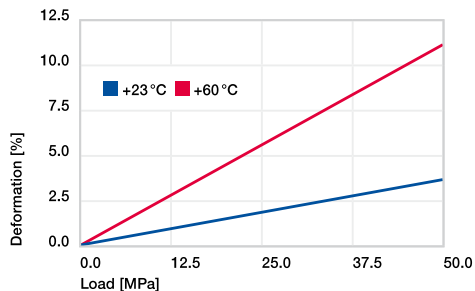


Diagram 03: Deformation under pressure and temperature

Permissible surface speeds

The low coefficient of friction and the extremely low stick-slip tendency of iglidur® J plain bearings are especially important at very low speeds. However, iglidur® J material can also be used for high speeds of over 1 m/s. In both cases the static friction is very low and stick-slip does not occur. The maximum values shown in table 03 can only be achieved at low pressures. At the given speeds, friction can cause a temperature increase to maximum permissible levels. In practice, though, this temperature level is rarely reached due to varying application conditions.

► Surface speed, page 44

m/s	Rotating	Oscillating	Linear
Continuous	1.5	1.1	8
Short-term	3	2.1	10

Table 03: Maximum surface speeds

Temperatures

iglidur® J plain bearings can be used between -50 °C and +90 °C; the short-term maximum permissible temperature is +120 °C. Also, the wear increases significantly above +80 °C. At temperatures over +60 °C an additional securing is required.

► Application temperatures, page 49

► Additional securing, page 49

Friction and wear

Similar to wear resistance, the coefficient of friction also changes with the load (diagrams 04 and 05).

► Coefficients of friction and surfaces, page 47

► Wear resistance, page 50

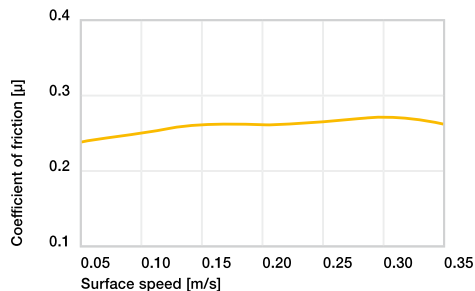


Diagram 04: Coefficient of friction as a function of the surface speed, p = 0.75 MPa

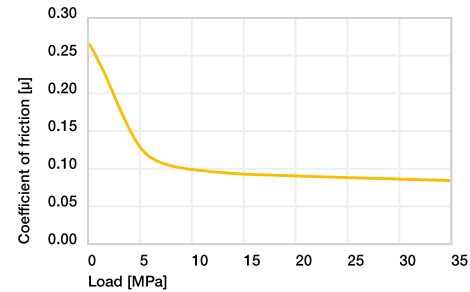


Diagram 05: Coefficient of friction as a function of the pressure, v = 0.01 m/s

Shaft materials

Friction and wear are also dependent, to a large extent, on the shaft material. With increasing shaft roughness, the coefficient of friction also increases. The best case is a ground surface with an average roughness Ra = 0.1–0.3 μm. Diagrams 06 and 07 show results of testing different shaft materials with plain bearings made from iglidur® J. When compared to most iglidur® materials, iglidur® J has very low wear results at low loads compared with all shaft materials tested. Also, for increasing pressures up to 5 MPa, the wear resistance of iglidur® J is excellent. If the shaft material you plan on using is not shown in these test results, please contact us.

► Shaft materials, page 52

iglidur® J	Dry	Greases	Oil	Water
C.o.f. μ	0.06–0.18	0.09	0.04	0.04

Table 04: Coefficient of friction against steel (Ra = 1 μm, 50 HRC)

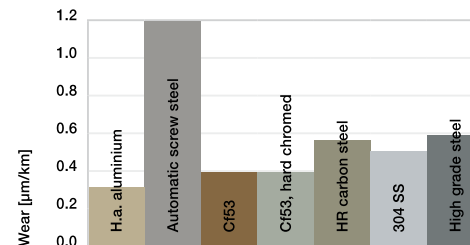


Diagram 06: Wear, rotating with different shaft materials, pressure, p = 1 MPa, v = 0.3 m/s

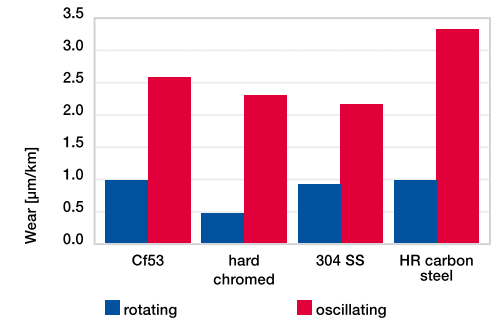


Diagram 07: Wear for rotating and oscillating applications with different shaft materials, p = 2 MPa

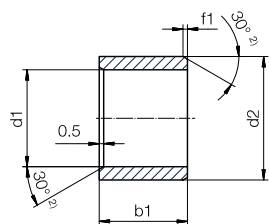
Installation tolerances

iglidur® J plain bearings are standard bearings for shafts with h-tolerance (recommended minimum h9). The bearings are designed for press-fit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, the inner diameter automatically adjusts to the E10 tolerances. For specific dimensions the tolerance differs depending on the wall thickness (please see the product range table).

► Testing methods, page 57

Diameter d1 [mm]	Shaft h9 [mm]	iglidur® J E10 [mm]	Housing H7 [mm]
up to 3	0–0.025	+0.014 +0.054	0 +0.010
> 3 to 6	0–0.030	+0.020 +0.068	0 +0.012
> 6 to 10	0–0.036	+0.025 +0.083	0 +0.015
> 10 to 18	0–0.043	+0.032 +0.102	0 +0.018
> 18 to 30	0–0.052	+0.040 +0.124	0 +0.021
> 30 to 50	0–0.062	+0.050 +0.150	0 +0.025
> 50 to 80	0–0.074	+0.060 +0.180	0 +0.030
> 80 to 120	0–0.087	+0.072 +0.212	0 +0.035
> 120 to 180	0–0.100	+0.085 +0.245	0 +0.040

Table 05: Important tolerances for plain bearings according to ISO 3547-1 after pressfit



Order key

Type	Dimensions [mm]
J S M - 0104-02	
iglidur® material	
Form S	
Metric	
Inner-Ø d1	
Outer-Ø d2	
Length b1	



Dimensions according to ISO 3547-1 and special dimensions



Imperial dimensions available

► From page 1407

d1	d1- Tolerance ³⁾	d2	b1 h13	Part No.
6.0	+0.020	8.0	8.0	JSM-0608-08
6.0	+0.068	8.0	10.0	JSM-0608-10
6.0	+0.030	9.0	6.0	JSM-0609-06
6.0	+0.105	10.0	10.0	JSM-0610-10
7.0		9.0	5.0	JSM-0709-05
7.0		9.0	7.0	JSM-0709-07
7.0		9.0	9.0	JSM-0709-09
7.0		9.0	12.5	JSM-0709-125
8.0	+0.025	10.0	3.0	JSM-0810-03
8.0	+0.083	10.0	4.0	JSM-0810-04
8.0		10.0	6.0	JSM-0810-06
8.0		10.0	8.0	JSM-0810-08
8.0		10.0	10.0	JSM-0810-10
8.0		10.0	12.0	JSM-0810-12
8.0		10.0	16.0	JSM-0810-16
8.0	+0.040	12.0	10.0	JSM-0812-10
8.0	+0.130	12.0	12.0	JSM-0812-12
9.0		11.0	10.0	JSM-0911-10
10.0		12.0	5.0	JSM-1012-05
10.0		12.0	6.0	JSM-1012-06
10.0		12.0	8.0	JSM-1012-08
10.0	+0.025	12.0	10.0	JSM-1012-10
10.0	+0.083	12.0	11.0	JSM-1012-11
10.0		12.0	12.0	JSM-1012-12
10.0		12.0	15.0	JSM-1012-15
10.0		12.0	20.0	JSM-1012-20
10.0	+0.040 +0.130	14.0	10.0	JSM-1014-10

²⁾ Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

d1 [mm]: Ø 1-6 | Ø 6-12 | Ø 12-30 | Ø > 30

f [mm]: 0.3 | 0.5 | 0.8 | 1.2

Dimensions [mm]

d1	d1- Tolerance ³⁾	d2	b1 h13	Part No.
1.5	+0.014	4.0	2.0	JSM-0104-02
2.0	+0.054	3.5	7.0	JSM-0203-07
2.0	+0.020	5.0	2.5	JSM-0205-02
2.5	+0.080	6.0	2.5	JSM-0206-02
3.0	+0.014	4.5	5.0	JSM-0304-05
3.0	+0.054	4.5	9.0	JSM-0304-09
3.0		5.0	4.0	JSM-0305-04
3.0	+0.020	7.0	14.0	JSM-0307-14
3.0	+0.080	8.0	4.0	JSM-0308-04
3.0		8.0	5.0	JSM-0308-05
4.0		5.5	4.0	JSM-0405-04
4.0		5.5	6.0	JSM-0405-06
4.0		5.5	8.0	JSM-0405-08
5.0	+0.020	7.0	4.6	JSM-0507-046
5.0	+0.068	7.0	5.0	JSM-0507-05
5.0		7.0	10.0	JSM-0507-10
5.0		7.0	14.0	JSM-0507-14
5.0	+0.020	7.0	15.0	JSM-0507-15
5.0	+0.080	7.0	15.0	JSM-0507-15
5.0	+0.030	8.0	5.0	JSM-0508-05
5.0	+0.105	8.0	5.0	JSM-0508-05
6.0		7.0	3.0	JSM-0607-03
6.0		7.0	5.0	JSM-0607-05
6.0	+0.010	7.0	8.0	JSM-0607-08
6.0	+0.058	7.0	12.5	JSM-0607-12.5
6.0		7.0	14.0	JSM-0607-14
6.0	+0.020	8.0	4.3	JSM-0608-043
6.0	+0.068	8.0	6.0	JSM-0608-06

³⁾ After press-fit. Testing methods ► Page 57

Dimensions [mm]

d1	d1- Tolerance ³⁾	d2	b1 h13	Part No.
10.0	+0.040 +0.130	14.0	16.0	JSM-1014-16
12.0		14.0	6.0	JSM-1214-06
12.0		14.0	8.0	JSM-1214-08
12.0		14.0	9.0	JSM-1214-09
12.0	+0.032	14.0	10.0	JSM-1214-10
12.0	+0.102	14.0	12.0	JSM-1214-12
12.0		14.0	15.0	JSM-1214-15
12.0		14.0	20.0	JSM-1214-20
12.0	+0.050	16.0	12.0	JSM-1216-12
12.0	+0.160	16.0	17.0	JSM-1216-17
13.0		15.0	10.0	JSM-1315-10
13.0		15.0	20.0	JSM-1315-20
13.0		16.0	18.5	JSM-1316-185
14.0		16.0	5.0	JSM-1416-05
14.0	+0.032	16.0	8.0	JSM-1416-08
14.0	+0.102	16.0	10.0	JSM-1416-10
14.0		16.0	15.0	JSM-1416-15
14.0		16.0	20.0	JSM-1416-20
14.0		16.0	25.0	JSM-1416-25
14.0		18.0	18.0	JSM-1418-18
14.0	+0.050	20.0	20.0	JSM-1420-20
14.0	+0.160	20.0	20.0	JSM-1420-20
15.0		17.0	6.0	JSM-1517-06
15.0		17.0	10.0	JSM-1517-10
15.0		17.0	12.0	JSM-1517-12
15.0		17.0	15.0	JSM-1517-15
15.0		17.0	20.0	JSM-1517-20
15.0	+0.032	17.0	25.0	JSM-1517-25
15.0	+0.102	18.0	10.0	JSM-1518-10
16.0		18.0	10.0	JSM-1618-10
16.0		18.0	12.0	JSM-1618-12
16.0		18.0	15.0	JSM-1618-15
16.0		18.0	20.0	JSM-1618-20
16.0		18.0	25.0	JSM-1618-25
16.0	+0.050	20.0	16.0	JSM-1620-16
16.0	+0.160	22.0	16.0	JSM-1622-16
16.0		22.0	20.0	JSM-1622-20
17.0		19.0	6.0	JSM-1719-06
18.0		20.0	10.0	JSM-1820-10
18.0	+0.032	20.0	15.0	JSM-1820-15
18.0	+0.102	20.0	20.0	JSM-1820-20
18.0		20.0	25.0	JSM-1820-25
19.0		22.0	14.0	JSM-1922-14
20.0	+0.040	22.0	20.0	JSM-2022-20
20.0	+0.124	22.0	30.0	JSM-2022-30

³⁾ After press-fit. Testing methods ► Page 57

d1	d1- Tolerance ³⁾	d2	b1 h13	Part No.
20.0		23.0	10.0	JSM-2023-10
20.0	+0.040	23.0	15.0	JSM-2023-15
20.0	+0.124	23.0	20.0	JSM-2023-20
20.0	+0.020	23.0	25.0	JSM-2023-25
20.0	+0.104	23.0	30.0	JSM-2023-30
20.0		26.0	6.0	JSM-2026-06
20.0	+0.065	26.0	20.0	JSM-2026-20
20.0	+0.195	26.0	25.0	JSM-2026-25
20.0		26.0	30.0	JSM-2026-30
21.0		24.0	12.0	JSM-2124-12
22.0		25.0	15.0	JSM-2225-15
22.0		25.0	20.0	JSM-2225-20
22.0		25.0	25.0	JSM-2225-25
22.0		25.0	30.0	JSM-2225-30
23.0		26.0	12.0	JSM-2326-12
24.0		27.0	15.0	JSM-2427-15
24.0		27.0	20.0	JSM-2427-20
24.0	+0.040	27.0	25.0	JSM-2427-25
24.0	+0.124	27.0	30.0	JSM-2427-30
24.0		27.0	46.0	JSM-2427-46
25.0		28.0	12.0	JSM-2528-12
25.0		28.0	15.0	JSM-2528-15
25.0		28.0	20.0	JSM-2528-20
25.0		28.0	25.0	JSM-2528-25
25.0		28.0	30.0	JSM-2528-30
25.0		28.0	60.0	JSM-2528-60
25.0		30.0	40.0	JSM-2530-40
25.0	+0.065	32.0	25.0	JSM-2532-25
25.0	+0.195	32.0	32.0	JSM-2532-32
25.0		32.0	35.0	JSM-2532-35
26.0		30.0	20.0	JSM-2630-20
27.0	+0.040	30.0	20.0	JSM-2730-20
27.0	+0.124	30.0	20.0	JSM-2730-20
28.0		32.0	20.0	JSM-2832-20
28.0	+0.065	32.0	25.0	JSM-2832-25
28.0	+0.195	32.0	30.0	JSM-2832-30
30.0		34.0	20.0	JSM-3034-20
30.0	+0.040	34.0	25.0	JSM-3034-25
30.0	+0.124	34.0	30.0	JSM-3034-30
30.0		34.0	40.0	JSM-3034-40
30.0	+0.065	38.0	40.0	JSM-3038-40
30.0	+0.195	38.0	40.0	JSM-3038-40
32.0		36.0	20.0	JSM-3236-20
32.0	+0.050	36.0	30.0	JSM-3236-30
32.0	+0.150	36.0	40.0	JSM-3236-40

Dimensions [mm]

d1	d1- Tolerance ³⁾	d2	b1 h13	Part No.	d1	d1- Tolerance ³⁾	d2	b1 h13	Part No.
32.0		37.0	25.0	JSM-3237-25	45.0	+0.025 +0.125	50.0	50.0	JSM-4550-50
32.0		38.0	50.0	JSM-3238-50	50.0		55.0	20.0	JSM-5055-20
35.0		39.0	20.0	JSM-3539-20	50.0	+0.050	55.0	30.0	JSM-5055-30
35.0		39.0	30.0	JSM-3539-30	50.0	+0.150	55.0	40.0	JSM-5055-40
35.0		39.0	40.0	JSM-3539-40	50.0		55.0	50.0	JSM-5055-50
35.0	+0.050	39.0	50.0	JSM-3539-50	50.0		55.0	60.0	JSM-5055-60
36.0	+0.150	40.0	45.0	JSM-3640-45	55.0		60.0	60.0	JSM-5560-60
40.0		44.0	20.0	JSM-4044-20	60.0		65.0	60.0	JSM-6065-60
40.0		44.0	30.0	JSM-4044-30	65.0	+0.060	70.0	50.0	JSM-6570-50
40.0		44.0	35.0	JSM-4044-35	70.0	+0.180	75.0	60.0	JSM-7075-60
40.0		44.0	40.0	JSM-4044-40	75.0		80.0	60.0	JSM-7580-60
40.0		44.0	50.0	JSM-4044-50	80.0		85.0	100.0	JSM-8085-100
42.0	+0.080 +0.240	46.0	73.0	JSM-4246-73	80.0		86.0	60.0	JSM-8086-60
45.0	+0.025	50.0	20.0	JSM-4550-20	100.0	+0.072	105.0	100.0	JSM-100105-100
45.0	+0.125	50.0	30.0	JSM-4550-30	110.0	+0.212	115.0	60.0	JSM-110115-60
45.0		50.0	40.0	JSM-4550-40					

³⁾ After press-fit. Testing methods ► Page 57

Couldn't find your size?

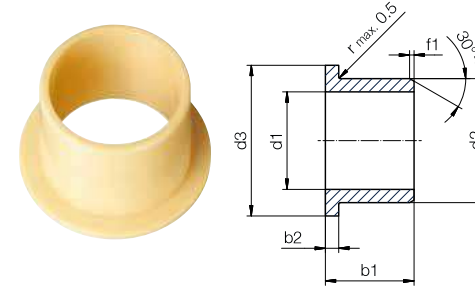
Do you need another length, other dimensions or tolerances? You need a particular design or alternative for your application? Please call us. igus® listens to your needs and provides you a solution very quickly.



Even more dimensions from stock

More than 300 dimensions are now available. Search online for your required bearing.

► www.igus.eu/iglidur-specialbearings



²⁾ Thickness < 1 mm: chamfer = 20°

Chamfer in relation to the d1

d1 [mm]: Ø 1-6 | Ø 6-12 | Ø 12-30 | Ø > 30

f [mm]: 0.3 | 0.5 | 0.8 | 1.2

Dimensions [mm]

d1	d1- Tolerance ³⁾	d2	d3	b1	b2	Part No.
		d13	d13	h13	-0.14	
3.0		4.5	7.5	3.0	0.75	JFM-0304-03
3.0	+0.014	4.5	7.5	4.5	0.75	JFM-0304-045
3.0	+0.054	4.5	7.5	5.0	0.75	JFM-0304-05
3.0	+0.020	6.0	9.0	10.0	1.5	JFM-0306-10
	+0.080					
4.0		5.5	9.5	3.0	0.75	JFM-0405-03
4.0		5.5	9.5	6.0	0.75	JFM-0405-06
5.0		6.0	10.0	5.0	0.5	JFM-0506-05
5.0		7.0	11.0	3.0	1.0	JFM-0507-03
5.0	+0.020	7.0	11.0	5.0	1.0	JFM-0507-05
6.0	+0.068	8.0	12.0	4.0	1.0	JFM-0608-04
6.0		8.0	12.0	6.0	1.0	JFM-0608-06
6.0		8.0	12.0	8.0	1.0	JFM-0608-08
6.0		8.0	12.0	10.0	1.0	JFM-0608-10
6.0	+0.030	10.0	14.0	10.0	2.0	JFM-0610-10
	+0.105					
8.0		10.0	15.0	3.8	1.0	JFM-0810-038
8.0		10.0	15.0	5.0	1.0	JFM-0810-05
8.0		10.0	15.0	6.0	1.0	JFM-0810-06
8.0		10.0	15.0	7.0	1.0	JFM-0810-07
8.0		10.0	15.0	8.0	1.0	JFM-0810-08
8.0	+0.025	10.0	15.0	9.5	1.0	JFM-0810-09
8.0	+0.083	10.0	15.0	10.0	1.0	JFM-0810-10
8.0		10.0	12.5	10.0	1.0	JFM-0810125-10
8.0		10.0	12.0	16.0	1.0	JFM-081012-16
8.0		10.0	14.0	10.0	1.0	JFM-081014-10
8.0		10.0	16.0	11.0	2.0	JFM-081016-11
8.0		12.0	16.0	6.0	2.0	JFM-0812-06

³⁾ After press-fit. Testing methods ► Page 57



Order key

Type Dimensions [mm]

J F M-0304-03

iglidur® material	Form F	Metric	Inner-Ø d1	Outer-Ø d2	Length b1
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Dimensions according to ISO 3547-1 and special dimensions



Imperial dimensions available

► From page 1432

d1	d1- Tolerance ³⁾	d2	d3	b1	b2	Part No.
		d13	d13	h13	-0.14	
8.0		12.0	16.0	9.0	2.0	JFM-0812-09
10.0		12.0	18.0	5.0	1.0	JFM-1012-05
10.0		12.0	18.0	7.0	1.0	JFM-1012-07
10.0		12.0	18.0	9.0	1.0	JFM-1012-09
10.0		12.0	18.0	10.0	1.0	JFM-1012-10
10.0	+0.025	12.0	18.0	12.0	1.0	JFM-1012-12
10.0	+0.083	12.0	18.0	15.0	1.0	JFM-1012-15
10.0		12.0	18.0	17.0	1.0	JFM-1012-17
10.0		12.0	18.0	18.0	1.0	JFM-1012-18
10.0		12.0	15.0	3.5	1.0	JFM-101215-035
10.0		14.0	17.5	14.0	1.0	JFM-1014-14
11.0		13.0	18.0	5.0	1.0	JFM-1113-05
12.0		14.0	20.0	4.0	1.0	JFM-1214-04
12.0		14.0	20.0	5.0	1.0	JFM-1214-05
12.0		14.0	20.0	7.0	1.0	JFM-1214-07
12.0	+0.032	14.0	20.0	9.0	1.0	JFM-1214-09
12.0	+0.102	14.0	20.0	12.0	1.0	JFM-1214-12
12.0		14.0	20.0	15.0	1.0	JFM-1214-15
12.0		14.0	20.0	17.0	1.0	JFM-1214-17
12.0		14.0	18.0	4.5	1.0	JFM-121418-045
12.0		14.0	18.0	10.0	1.0	JFM-121418-10
12.0	+0.050	18.0	24.0	8.0	3.0	JFM-1218-08
12.0	+0.160	18.0	24.0	12.0	3.0	JFM-1218-12
12.0		18.0	22.0	20.0	3.0	JFM-1218-20
14.0		16.0	22.0	3.0	1.0	JFM-1416-03
14.0	+0.032	16.0	22.0	10.0	1.0	JFM-1416-10
14.0	+0.102	16.0	22.0	12.0	1.0	JFM-1416-12
14.0		16.0	22.0	17.0	1.0	JFM-1416-17

Dimensions [mm]

d1	d1- Tolerance ³⁾	d2	d3	b1	b2	Part No.
		d13	h13	-0.14		
14.0		18.0	22.0	20.0	2.0	JFM-141822-20
14.0		18.0	25.0	24.0	2.0	JFM-141825-24
15.0		17.0	23.0	4.0	1.0	JFM-1517-04
15.0	+0.032	17.0	23.0	5.5	1.0	JFM-1517-055
15.0	+0.102	17.0	23.0	9.0	1.0	JFM-1517-09
15.0		17.0	23.0	12.0	1.0	JFM-1517-12
15.0		17.0	23.0	17.0	1.0	JFM-1517-17
15.0	+0.050 +0.160	21.0	27.0	20.0	3.0	JFM-1521-20
16.0		18.0	24.0	6.0	1.0	JFM-1618-06
16.0	+0.032	18.0	24.0	12.0	1.0	JFM-1618-12
16.0	+0.102	18.0	24.0	16.0	1.0	JFM-1618-16
16.0		18.0	24.0	17.0	1.0	JFM-1618-17
16.0	+0.050	22.0	28.0	12.0	3.0	JFM-1622-12
16.0	+0.160	22.0	28.0	15.0	3.0	JFM-1622-15
17.0		19.0	25.0	9.0	1.0	JFM-1719-09
17.0		19.0	25.0	21.0	1.0	JFM-1719-21
18.0		20.0	26.0	4.0	1.0	JFM-1820-04
18.0		20.0	26.0	12.0	1.0	JFM-1820-12
18.0	+0.032	20.0	26.0	17.0	1.0	JFM-1820-17
18.0	+0.102	20.0	26.0	22.0	1.0	JFM-1820-22
18.0		21.0	25.0	12.0	1.0	JFM-1821-12
19.0		22.0	26.0	23.0	1.0	JFM-1922-23
19.0		22.0	26.0	36.0	1.0	JFM-1922-36
20.0		23.0	30.0	11.5	1.5	JFM-2023-11
20.0	+0.040	23.0	30.0	15.5	1.5	JFM-2023-15.5
20.0	+0.124	23.0	30.0	16.5	1.5	JFM-2023-16
20.0		23.0	30.0	21.5	1.5	JFM-2023-21
20.0		26.0	32.0	15.0	3.0	JFM-2026-15
20.0	+0.065	26.0	32.0	20.0	3.0	JFM-2026-20
20.0	+0.195	26.0	32.0	25.0	3.0	JFM-2026-25
22.0		25.0	32.0	8.0	1.5	JFM-222532-08
24.0		30.0	36.0	30.0	3.0	JFM-2430-30
25.0	+0.040	28.0	35.0	6.0	1.5	JFM-2528-06
25.0	+0.124	28.0	35.0	11.5	1.5	JFM-2528-11
25.0		28.0	35.0	12.0	1.5	JFM-2528-12

³⁾ After press-fit. Testing methods ► Page 57

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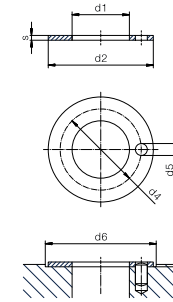
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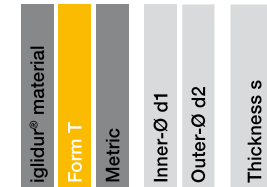
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Order key

Type Dimensions [mm]

J T M-1224-015



Dimensions according to ISO 3547-1 and special dimensions

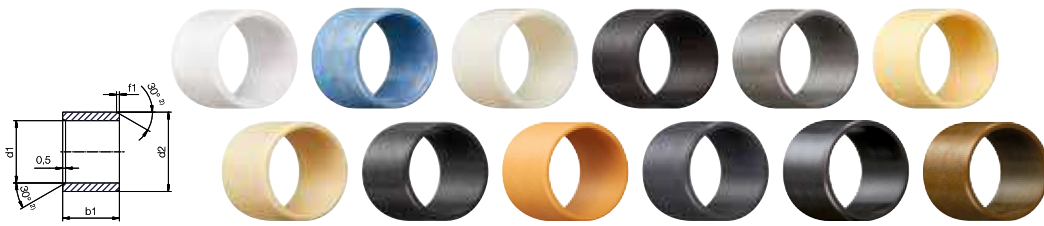
Dimensions [mm]

d1	d2	s	d4	d5	h	d6	Part No.
+0.25	-0.25	-0.05	-0.12 +0.12	+0.375 +0.125	+0.2 -0.2	+0.12	
12.0	24.0	1.5	18.0	1.5	1.0	24.0	JTM-1224-015
12.0	34.0	1.5	⁴⁾	⁴⁾	1.0	34.0	JTM-1234-015
14.0	20.0	1.5	⁴⁾	⁴⁾	1.0	20.0	JTM-1420-015
20.0	36.0	1.5	28.0	3.0	1.0	36.0	JTM-2036-015
28.0	42.0	2.0	38.0	4.0	1.0	48.0	JTM-2842-020
30.0	39.0	1.5	⁴⁾	⁴⁾	1.0	39.0	JTM-3039-015
56.0	70.0	1.0	⁴⁾	⁴⁾	0.7	70.0	JTM-5670-010
139.0	188.0	2.0	⁴⁾	⁴⁾	1.5	188.0	JTM-139188-020

⁴⁾ Design without fixing bore

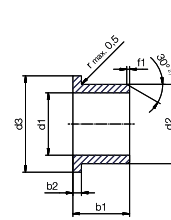
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Dimensions sleeve Abmessungen zylindrisch [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	b1 h13
A180SM-0810-15	8.0	+0.025 +0.083	10.0	15.0
A350SM-1416-12	14.0	+0.016 +0.068	16.0	12.0
C500SM-3034-30	30.0	+0.020 +0.104	34.0	30.0
F2SM-1214-15	12.0	+0.032 +0.102	14.0	15.0
F2SM-1618-20	16.0	+0.032 +0.102	18.0	20.0
GSM-0406-06	4.0	+0.020 +0.068	6.0	6.0
GSM-0810-36	8.0	+0.025 +0.083	10.0	36.0
GSM-120125-78	120.0	+0.072 +0.212	125.0	78.0
GSM-1214-45	12.0	+0.032 +0.102	14.0	45.0
GSM-1820-30	18.0	+0.032 +0.102	20.0	30.0
GSM-1822-15	18.0	+0.032 +0.102	22.0	15.0
GSM-2021-095	20.0	+0.020 +0.072	21.0	9.5
JSM-0814-08	8.0	+0.040 +0.130	14.0	8.0
JSM-1216-06	12.0	+0.050 +0.0160	16.0	6.0
JSM-1218-10	12.0	+0.050 +0.0160	18.0	10.0
JSM-1315-06	13.0	+0.050 +0.0160	15.0	6.0
JSM-1620-20	16.0	+0.050 +0.0160	20.0	20.0
JSM-6065-100	60.0	+0.060 +0.180	65.0	100.0
MSM-1620-10	16.0	+0.050 +0.0160	20.0	10.0
P210SM-1214-04	12.0	+0.032 +0.102	14.0	4.0
PSM-0608-05	6.0	+0.020 +0.068	8.0	5.0
PSM-0812-10	8.0	+0.040 +0.130	12.0	10.0
PSM-3236-15	32.0	+0.050 +0.150	36.0	15.0
Q2SM-1012-04	10.0	+0.025 +0.083	12.0	4.0
Q2SM-4246-52	42.0	+0.050 +0.150	46.0	52.0
X6SM-1416-22	14.0	+0.016 +0.086	16.0	22.0
X6SM-1618-12	16.0	+0.016 +0.086	18.0	12.0
X6SM-2023-15	20.0	+0.020 +0.104	23.0	15.0
ZSM-2225-35	22.0	+0.020 +0.104	25.0	35.0
ZSM-6065-25	60.0	+0.030 +0.150	65.0	25.0
ZSM-9095-100	90.0	+0.036 +0.176	95.0	100.0



Dimensions with flange Abmessungen mit Bund [mm]

Part No. Art.-Nr.	d1	d1 tolerance d1-Toleranz	d2	d3	b1 h13	b2
GFM-060710-06	6.0	+0.010 +0.040	7.0	10.0	6.0	0.5
GFM-0812-16	8.0	+0.040 +0.130	12.0	16.0	16.0	2.0
GFM-101115-03	10.0	+0.013 +0.046	11.0	15.0	3.0	1.0
GFM-1012-11	10.0	+0.025 +0.083	12.0	18.0	11.0	1.0
GFM-1012-25	10.0	+0.025 +0.083	12.0	18.0	25.0	1.0
GFM-1719-07	17.0	+0.032 +0.102	19.0	25.0	7.0	1.0
GFM-2527-12	25.0	+0.040 +0.124	27.0	32.0	12.0	1.0
GFM-2527-15	25.0	+0.040 +0.124	27.0	32.0	15.0	1.0
GFM-3034-12	30.0	+0.040 +0.124	34.0	42.0	12.0	2.0
GFM-303440-07	30.0	+0.040 +0.124	34.0	40.0	7.0	2.0
H1FM-0405-06	4.0	+0.010 +0.058	5.5	9.5	6.0	0.8
J350FM-6065-50	60.0	+0.030 +0.150	65.0	73.0	50.0	2.0
J3FM-081418-15	8.0	+0.025 +0.083	14.0	18.0	15.0	2.0
JFM-040810-15	4.0	+0.020 +0.068	8.0	10.0	15.0	2.0
JFM-0810-03	8.0	+0.025 +0.083	10.0	15.0	3.0	1.0
JFM-121419-06	12.0	+0.032 +0.102	14.0	19.0	6.0	1.0
JFM-121622-20	12.0	+0.050 +0.0160	16.0	22.0	20.0	2.0
JFM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
PFM-1214-08	12.0	+0.032 +0.102	14.0	8.0	20.0	1.0
PFM-1618-08	16.0	+0.032 +0.102	18.0	8.0	24.0	1.0
P210FM-0405-06	4.0	+0.020 +0.068	5.5	9.5	6.0	0.8
Q290FM-8085-100	80.0	+0.060 +0.180	85.0	93.0	100.0	2.5
Q2FM-101219-13	10.0	+0.025 +0.083	12.0	19.0	13.0	1.0
Q2FM-1013-05	10.0	+0.025 +0.083	13.0	20.0	5.0	1.0
Q2FM-2023-07	20.0	+0.040 +0.124	23.0	30.0	7.0	1.5
QFM-101215-04	10.0	+0.025 +0.083	12.0	15.0	4.0	1.0
QFM-121418-06	12.0	+0.032 +0.102	14.0	18.0	6.0	1.0
WFM-2023-08	20.0	+0.040 +0.124	23.0	30.0	8.0	1.5
XFM-1214-50	12.0	+0.016 +0.086	14.0	50.0	20.0	1.0
X6FM-0608-04	6.0	+0.010 +0.058	8.0	12.0	4.0	1.0
ZFM-1012-25	10.0	+0.013 +0.071	12.0	18.0	25.0	1.0
ZFM-2023-075	20.0	+0.020 +0.104	23.0	30.0	7.5	1.5



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