The classic endurance runner up to 30MPa

Excellent wear resistance on (virtually) all shafts

iglidur® W300

When to use it?

- When especially long service life is necessary
- When low coefficient of dynamic friction and high wear resistance are required
- For use on 304 stainless steel shafts
- For harsh environments and rough shafts
- Dirt-resistant

When not to use it?

- For high loads starting at 50MPa
  iglidur® Q
- When temperatures are constantly higher than +90 °C
  iglidur® H, iglidur® X
- For very wet environments
  iglidur® P
- When a cost-effective plain bearing is required
  iglidur® G

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Bearing technology | Plain bearings | iglidur® W300

Ø
2.0-120.0mm

Also available as:

Bar stock, round bar
Page 743

Bar stock, plate
Page 773

tribo-tape liner
Page 781

Guide rings
Page 641

Two hole flange bearings
Page 667

Moulded special parts
Page 696

igubal® spherical balls
Page 845

The classic endurance runner up to 30MPa
Excellent wear resistance on (virtually) all shafts

iglidur® W300 gives excellent wear resistance, even in harsh environments or when used with rough shafts. Of all iglidur® materials, iglidur® W300 is the most resistant to these conditions.

- Over 400 sizes available from stock
- Very long service life
- Low coefficient of friction
- Low coefficient of friction
- Very wear-resistant
- Suitable for applications with soft shafts
- Lubrication-free
- Maintenance-free

Typical application areas

- Automation
- Printing industry
- Woodworking
- Mechatronics
- Test engineering and quality assurance

Descriptive technical specifications			
Wear resistance at +23°C	–	■■■■■	+
Wear resistance at +90°C	–	■■■■■	+
Wear resistance at +150°C	–	■□□□□	+
Slide property	–	■■■■□	+
Wear resistance under water	–	■□□□□	+
Media resistance	–	■■□□□	+
Resistant to edge pressures	–	■■■■■	+
Resistant to shock and impact loads	–	■■■■■	+
Dirt resistance	–	■■■■□	+

Online product finder
www.igus.eu/iglidur-finder

Online service life calculation
www.igus.eu/iglidur-expert

iglidur® W300
+90°C
60MPa

Technical data

General properties			Testing method
Density	g/cm³	1.24	
Colour		yellow	
Max. moisture absorption at +23°C/50% r.h.	% weight	1.3	DIN 53495
Max. moisture absorption	% weight	6.5	
Coefficient of friction, dynamic, against steel	µ	0.08-0.23	
pv value, max. (dry)	MPa · m/s	0.23	
Mechanical properties			
Flexural modulus	MPa	3,500	DIN 53457
Flexural strength at +20°C	MPa	125	DIN 53452
Compressive strength	MPa	61	
Max. permissible surface pressure (+20°C)	MPa	60	
Shore D hardness		77	DIN 53505
Physical and thermal properties			
Max. application temperature long-term	°C	+90	
Max. application temperature short-term	°C	+180	
Min. application temperature	°C	-40	
Thermal conductivity	W/m · K	0.24	ASTM C 177
Coefficient of thermal expansion (at +23°C)	$K^{-1} \cdot 10^{-5}$	9	DIN 53752
Electrical properties			
Specific transitional resistance	Ωcm	$> 10^{13}$	DIN IEC 93
Surface resistance	Ω	$> 10^{12}$	DIN 53482

Table 01: Material properties

-40°C up to +90°C

60MPa

HB

RoHS-II

ISO 3547-1

iglidur® W300 gives excellent wear resistance, even in harsh environments or when used with rough shafts. This material is the most tolerant of these external effects out of all the iglidur® range.

Moisture absorption
The moisture absorption of iglidur® W300 plain bearings in ambient conditions is approximately 1.3% weight. The saturation limit submerged in water is 6.5% weight. This must be taken into account for these types of applications.

Vacuum
In vacuum, any present moisture is released as vapour. The use in vacuum is only possible to a limited extent.

Radiation resistance
Plain bearings made from iglidur® W300 are resistant up to a radiation intensity of $3 \cdot 10^2$ Gy.

Resistance to weathering
iglidur® W300 plain bearings have limited resistance to weathering. The material properties are affected. Discolouration occurs. Practical tests under real application conditions are recommended.

Mechanical properties
When temperatures increase, the compressive strength of iglidur® W300 plain bearings decreases. Diagram 02 shows this inverse relationship. The maximum recommended surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.
iglidur® W300 shows a very high compressive strength despite high elasticity. Diagram 03 shows the elastic deformation of iglidur® W300 at radial loads. At the maximum recommended surface pressure of 60MPa, the deformation is less than 3%.
Surface pressure, page 45

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Permissible surface speeds

Even at higher surface speeds, the coefficient of friction of iglidur® W300 plain bearings do not increase. In relation to other materials, therefore, somewhat higher surface speeds can be attained, for example, up to 1.5m/s rotating and up to 6m/s linear. The wear remains low when used for long periods at high speeds, due to exceptional wear resistance. Very high speeds can be attained with iglidur® W300 bearings on hardened shafts that are not too smooth.

Surface speed, page 48

Temperature

iglidur® W300 bearings retain their exceptional wear resistance even up to the highest permissible application temperatures and at the same time resist becoming brittle at low temperatures. For temperatures over +60°C an additional securing is required.

Application temperatures, page 53
Additional securing, page 53

Friction and wear

Similar to wear resistance, the coefficient of friction μ also changes with the load. In contrast to other iglidur® materials, the coefficient of friction of iglidur® W300 remains consistently low at higher rotational speeds.

Coefficient of friction and surfaces, page 51
Wear resistance, page 54

Shaft materials

The friction and wear are also dependent, to a large degree, on the mating partner. Shafts that are too smooth increase both the coefficient of friction and the wear of the bearing. Smooth shafts have the danger of stick slip. Squeaking as an effect of stick-slip is usually the result of shafts that are too smooth. Shaft finishes of Ra = 0.4-0.5μm have proven best. For iglidur® W300, the wear resistance is still excellent with this surface finish as the friction adopts the minimum value. Diagram 06 shows results of testing different shafts. Hardened shafts are preferred for applications for higher loads. If the shaft material you plan on using is not shown in these test results, please contact us.

Shaft materials, page 56

Installation tolerances

iglidur® W300 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 particular dimensions the tolerance differs depending on the wall thickness (please see product range table).

Testing methods, page 61

Chemicals	Resistance
Alcohols	+ up to 0
Diluted acids	0 up to –
Diluted alkalines	+
Fuels	+
Greases, oils without additives	+
Hydrocarbons	+
Strong acids	–
Strong alkalines	0

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

Table 02: Chemical resistance

Chemical table, page 1170

		Rotating	Oscillating	linear
Long-term	m/s	1.0	0.7	4.0
Short-term	m/s	1.5	1.8	6.0

Table 03: Maximum surface speeds

	Dry	Greases	Oil	Water
Coefficient of friction μ	0.08 -0.23	0.09	0.04	0.04

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

	Housing		Plain bearings		Shaft	
Ø d1 [mm]	H7 [mm]		E10 [mm]		h9 [mm]	
0-3	+0.000	+0.010	+0.014	+0.054	-0.025	+0.000
> 3-6	+0.000	+0.012	+0.020	+0.068	-0.030	+0.000
> 6-10	+0.000	+0.015	+0.025	+0.083	-0.036	+0.000
> 10-18	+0.000	+0.018	+0.032	+0.102	-0.043	+0.000
> 18-30	+0.000	+0.021	+0.040	+0.124	-0.052	+0.000
> 30-50	+0.000	+0.025	+0.050	+0.150	-0.062	+0.000
> 50-80	+0.000	+0.030	+0.060	+0.180	-0.074	+0.000
> 80-120	+0.000	+0.035	+0.072	+0.212	-0.087	+0.000
> 120-180	+0.000	+0.040	+0.085	+0.245	-0.100	+0.000

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

Technical data

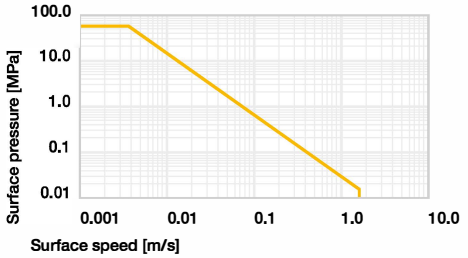


Diagram 01: Permissible pv values for iglidur® W300 with a wall thickness of 1mm dry operation against a steel shaft at +20°C, mounted in a steel housing

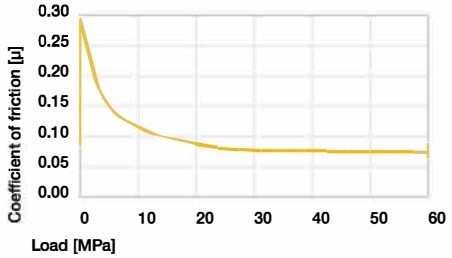


Diagram 05: Coefficient of friction as a function of the pressure, v = 0.01m/s

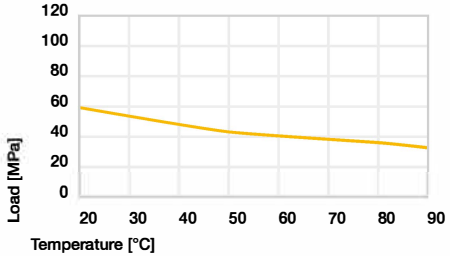


Diagram 02: Maximum recommended surface pressure as a function of temperature (60MPa at +20°C)

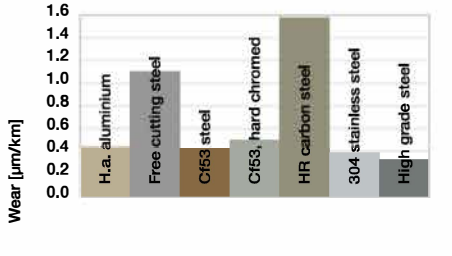


Diagram 06: Wear, rotating with different shaft materials, pressure, p = 1MPa, v = 0.3m/s

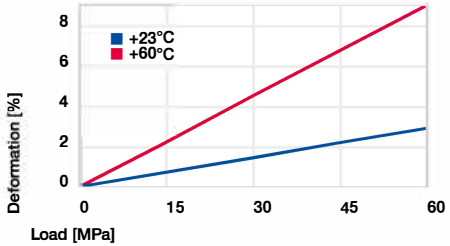


Diagram 03: Deformation under pressure and temperature

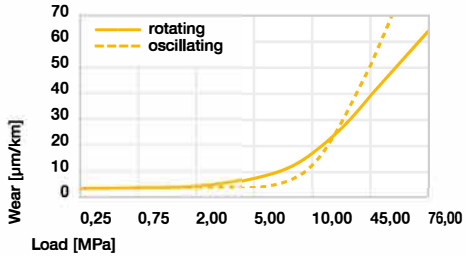


Diagram 07: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the load

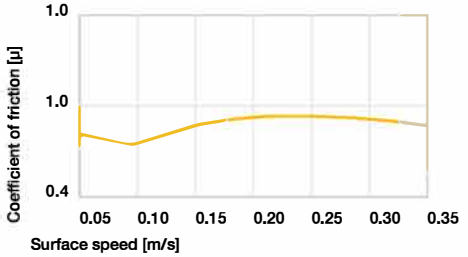
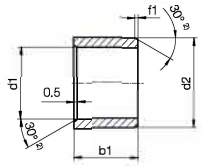


Diagram 04: Coefficient of friction as a function of the surface speed, p = 0.75MPa

Bearing technology | Plain bearings | iglidur® W300

Sleeve bearings (form S)



[2] Thickness < 0.6mm: chamfer = 20°

Chamfer in relation to d1

d1 [mm]	Ø 1-6	Ø 6-12	Ø 12-30	Ø > 30
f1 [mm]	0.3	0.5	0.8	1.2

Dimensions according to ISO 3547-1 and special dimensions

Order example: WSM-0203-03 – no minimum order quantity.
W300 iglidur® material S Cylindrical M Metric 02 Inner Ø d1 03 Outer Ø d2 03 Total length b1

d1 [mm]	d1 Tolerance[3]	d2 [mm]	b1 h13 [mm]	Part No.
2.0		3.5	3.0	WSM-0203-03
2.5		4.0	1.8	WSM-0204-018
2.5	+0.014	4.0	3.0	WSM-0204-03
3.0	+0.054	4.5	3.0	WSM-0304-03
3.0		4.5	5.0	WSM-0304-05
3.0		4.5	6.0	WSM-0304-06
4.0		5.5	4.0	WSM-0405-04
4.0		5.5	6.0	WSM-0405-06
4.0		5.5	8.0	WSM-0405-08
4.0	+0.020	5.5	10.0	WSM-0405-10
5.0	+0.068	7.0	5.0	WSM-0507-05
5.0		7.0	8.0	WSM-0507-08
5.0		7.0	10.0	WSM-0507-10
6.0	+0.010	7.0	14.0	WSM-0607-14
	+0.058			
6.0		8.0	6.0	WSM-0608-06
6.0		8.0	8.0	WSM-0608-08
6.0	+0.020	8.0	9.5	WSM-0608-09
6.0	+0.068	8.0	10.0	WSM-0608-10
6.0		8.0	11.8	WSM-0608-11
6.0		8.0	13.8	WSM-0608-13
7.0		9.0	9.0	WSM-0709-09
7.0		9.0	12.0	WSM-0709-12
7.0		9.0	12.5	WSM-0709-125
8.0	+0.025	10.0	6.0	WSM-0810-06
8.0	+0.083	10.0	8.0	WSM-0810-08
8.0		10.0	10.0	WSM-0810-10
8.0		10.0	12.0	WSM-0810-12
8.0		10.0	13.8	WSM-0810-13

d1 [mm]	d1 Tolerance[3]	d2 [mm]	b1 h13 [mm]	Part No.
8.0		10.0	15.0	WSM-0810-15
8.0		10.0	16.0	WSM-0810-16
8.0		10.0	20.0	WSM-0810-20
8.0		10.0	21.0	WSM-0810-21
9.0		11.0	6.0	WSM-0911-06
10.0		12.0	4.0	WSM-1012-04
10.0		12.0	6.0	WSM-1012-06
10.0	+0.025	12.0	8.0	WSM-1012-08
10.0	+0.083	12.0	9.0	WSM-1012-09
10.0		12.0	10.0	WSM-1012-10
10.0		12.0	12.0	WSM-1012-12
10.0		12.0	15.0	WSM-1012-15
10.0		12.0	17.0	WSM-1012-17
10.0		12.0	20.0	WSM-1012-20
10.0		12.0	25.5	WSM-1012-25.5
11.0		13.0	8.0	WSM-1113-08
12.0		14.0	4.0	WSM-1214-04
12.0		14.0	5.0	WSM-1214-05
12.0		14.0	6.0	WSM-1214-06
12.0		14.0	8.0	WSM-1214-08
12.0		14.0	10.0	WSM-1214-10
12.0	+0.032	14.0	12.0	WSM-1214-12
12.0	+0.102	14.0	15.0	WSM-1214-15
12.0		14.0	20.0	WSM-1214-20
12.0		14.0	25.0	WSM-1214-25
13.0		15.0	7.0	WSM-1315-07
13.0		15.0	10.0	WSM-1315-10
13.0		15.0	15.0	WSM-1315-15
13.0		15.0	20.0	WSM-1315-20

[3] After press-fit. *Testing methods, page 61*

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iglidur® W300
+90°C
60MPa

Product range

d1 [mm]	d1 Tolerance[3]	d2 [mm]	b1 h13 [mm]	Part No.
14.0		16.0	7.2	WSM-1416-07
14.0		16.0	10.0	WSM-1416-10
14.0		16.0	15.0	WSM-1416-15
14.0		16.0	20.0	WSM-1416-20
14.0		16.0	25.0	WSM-1416-25
14.0		16.0	33.0	WSM-1416-33
15.0		17.0	10.0	WSM-1517-10
15.0		17.0	15.0	WSM-1517-15
15.0		17.0	20.0	WSM-1517-20
15.0		17.0	25.0	WSM-1517-25
16.0		18.0	7.0	WSM-1618-07
16.0		18.0	8.0	WSM-1618-08
16.0	+0.032	18.0	11.5	WSM-1618-11
16.0	+0.102	18.0	12.0	WSM-1618-12
16.0		18.0	15.0	WSM-1618-15
16.0		18.0	20.0	WSM-1618-20
16.0		18.0	25.0	WSM-1618-25
16.0		18.0	30.0	WSM-1618-30
16.0		18.0	35.0	WSM-1618-35
16.0		18.0	45.0	WSM-1618-45
18.0		20.0	12.0	WSM-1820-12
18.0		20.0	15.0	WSM-1820-15
18.0		20.0	20.0	WSM-1820-20
18.0		20.0	25.0	WSM-1820-25
18.0		20.0	33.0	WSM-1820-33
18.0		20.0	35.0	WSM-1820-35
19.0		22.0	28.0	WSM-1922-28
20.0		22.0	11.5	WSM-2022-11
20.0		22.0	12.0	WSM-2022-12
20.0		22.0	15.0	WSM-2022-15
20.0		22.0	20.0	WSM-2022-20
20.0		22.0	30.0	WSM-2022-30
20.0		23.0	8.0	WSM-2023-08
20.0		23.0	10.0	WSM-2023-10
20.0		23.0	12.0	WSM-2023-12
20.0		23.0	15.0	WSM-2023-15
20.0	+0.040	23.0	20.0	WSM-2023-20
20.0	+0.124	23.0	23.0	WSM-2023-23
20.0		23.0	25.0	WSM-2023-25
20.0		23.0	30.0	WSM-2023-30
22.0		24.0	15.0	WSM-2224-15
22.0		24.0	20.0	WSM-2224-20
22.0		24.0	30.0	WSM-2224-30
22.0		24.0	35.0	WSM-2224-35
22.0		24.0	45.0	WSM-2224-45
22.0		25.0	15.0	WSM-2225-15
22.0		25.0	20.0	WSM-2225-20
22.0		25.0	25.0	WSM-2225-25

d1 [mm]	d1 Tolerance[3]	d2 [mm]	b1 h13 [mm]	Part No.
22.0		25.0	30.0	WSM-2225-30
24.0		27.0	15.0	WSM-2427-15
24.0		27.0	20.0	WSM-2427-20
24.0		27.0	25.0	WSM-2427-25
24.0		27.0	30.0	WSM-2427-30
25.0		28.0	12.0	WSM-2528-12
25.0		28.0	14.0	WSM-2528-14
25.0		28.0	15.0	WSM-2528-15
25.0		28.0	20.0	WSM-2528-20
25.0		28.0	25.0	WSM-2528-25
25.0		28.0	30.0	WSM-2528-30
25.0		28.0	50.0	WSM-2528-50
26.0		30.0	16.0	WSM-2630-16
26.0	+0.040	30.0	25.0	WSM-2630-25
28.0	+0.124	30.0	10.0	WSM-2830-10
28.0		31.0	10.0	WSM-2831-10
28.0		32.0	20.0	WSM-2832-20
28.0		32.0	25.0	WSM-2832-25
28.0		32.0	30.0	WSM-2832-30
28.0		34.0	16.0	WSM-3034-16
30.0		34.0	20.0	WSM-3034-20
30.0		34.0	24.0	WSM-3034-24
30.0		34.0	25.0	WSM-3034-25
30.0		34.0	30.0	WSM-3034-30
30.0		34.0	36.0	WSM-3034-36
30.0		34.0	38.0	WSM-3034-38
30.0		34.0	40.0	WSM-3034-40
30.0		34.0	45.0	WSM-3034-45
30.0		34.0	47.0	WSM-3034-47
32.0		36.0	20.0	WSM-3236-20
32.0		36.0	25.0	WSM-3236-25
32.0		36.0	30.0	WSM-3236-30
32.0		36.0	40.0	WSM-3236-40
35.0		39.0	20.0	WSM-3539-20
35.0		39.0	30.0	WSM-3539-30
35.0		39.0	40.0	WSM-3539-40
35.0		39.0	50.0	WSM-3539-50
35.0	+0.050	40.0	7.0	WSM-3540-07
40.0	+0.150	44.0	20.0	WSM-4044-20
40.0		44.0	30.0	WSM-4044-30
40.0		44.0	40.0	WSM-4044-40
40.0		44.0	50.0	WSM-4044-50
45.0		50.0	20.0	WSM-4550-20
45.0		50.0	30.0	WSM-4550-30
45.0		50.0	40.0	WSM-4550-40
45.0		50.0	50.0	WSM-4550-50
50.0		55.0	20.0	WSM-5055-20
50.0		55.0	30.0	WSM-5055-30

[3] After press-fit. *Testing methods, page 61*

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d1 [mm]	d1 Tolerance[3]	d2 [mm]	b1 h13 [mm]	Part No.
50.0		55.0	40.0	**WSM-5055-40**
50.0	+0.050	55.0	50.0	**WSM-5055-50**
50.0	+0.150	55.0	55.0	**WSM-5055-55**
50.0		55.0	60.0	**WSM-5055-60**
55.0		60.0	40.0	**WSM-5560-40**
55.0	+0.060	60.0	60.0	**WSM-5560-60**
60.0	+0.180	65.0	30.0	**WSM-6065-30**
60.0		65.0	60.0	**WSM-6065-60**

d1 [mm]	d1 Tolerance[3]	d2 [mm]	b1 h13 [mm]	Part No.
65.0		70.0	60.0	**WSM-6570-60**
70.0	+0.060	75.0	60.0	**WSM-7075-60**
75.0	+0.180	80.0	100.0	**WSM-7580-100**
80.0		85.0	20.0	**WSM-8085-20**
80.0		85.0	100.0	**WSM-8085-100**
90.0	+0.072	95.0	100.0	**WSM-9095-100**
100.0	+0.212	105.0	100.0	**WSM-100105-100**

[3] After press-fit. *Testing methods, page 61*

Available from stock
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including delivery times, prices, online tools
www.igus.eu/W300

Ordering note
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Discount scaling		
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No minimum order value.
No low-quantity surcharges.
Free shipping within Germany for orders above €150.

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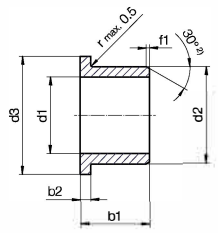
iglidur® W300
+90°C
60MPa

Bearing technology | Plain bearings | iglidur® W300

Flange bearings (form F)



[2] Thickness < 0.6mm: chamfer = 20°

Chamfer in relation to d1

d1 [mm]	Ø 1-6	Ø 6-12	Ø 12-30	Ø > 30
f1 [mm]	0.3	0.5	0.8	1.2

Dimensions according to ISO 3547-1 and special dimensions

Order example: WFM-0204-03 – no minimum order quantity.
W300 iglidur® material F With flange M Metric 02 Inner Ø d1 04 Outer Ø d2 03 Total length b1

d1 [mm]	d1 Tolerance[3]	d2 [mm]	d3 d13[3] [mm]	b1 h13 [mm]	b2 h13 [mm]	Part No.
2.5		4.0	6.5	3.0	0.75	**WFM-0204-03**
3.0	+0.014 +0.054	4.5	7.5	3.0	0.75	**WFM-0304-03**
3.0		4.5	7.5	5.0	0.75	**WFM-0304-05**
4.0		5.5	9.5	3.0	0.75	**WFM-0405-03**
4.0	+0.020 +0.068	5.5	9.5	4.0	0.75	**WFM-0405-04**
4.0		5.5	9.5	6.0	0.75	**WFM-0405-06**
5.0	+0.010 +0.040	6.0	10.0	8.0	0.50	**WFM-0506-08**
5.0		7.0	11.0	4.0	1.00	**WFM-0507-04**
5.0		7.0	11.0	5.0	1.00	**WFM-0507-05**
6.0		8.0	12.0	4.0	1.00	**WFM-0608-04**
6.0	+0.020 +0.068	8.0	12.0	6.0	1.00	**WFM-0608-06**
6.0		8.0	12.0	8.0	1.00	**WFM-0608-08**
6.0		8.0	12.0	10.0	1.00	**WFM-0608-10**
6.0		8.0	12.0	15.0	1.00	**WFM-0608-15**
7.0		9.0	15.0	10.0	1.00	**WFM-0709-10**
7.0		9.0	15.0	12.0	1.00	**WFM-0709-12**
8.0		10.0	15.0	2.7	1.00	**WFM-0810-02**
8.0		10.0	15.0	4.0	1.00	**WFM-0810-04**
8.0		10.0	15.0	5.0	1.00	**WFM-081015-05**
8.0		10.0	15.0	5.5	1.00	**WFM-0810-05**
8.0	+0.025 +0.083	10.0	15.0	7.5	1.00	**WFM-0810-07**
8.0		10.0	15.0	9.5	1.00	**WFM-0810-09**
8.0		10.0	15.0	10.0	1.00	**WFM-0810-10**
8.0		10.0	15.0	23.0	1.00	**WFM-0810-23**
8.0		10.0	15.0	30.0	1.00	**WFM-0810-30**
10.0		12.0	18.0	4.0	1.00	**WFM-1012-04**
10.0		12.0	18.0	5.0	1.00	**WFM-1012-05**

d1 [mm]	d1 Tolerance[3]	d2 [mm]	d3 d13[3] [mm]	b1 h13 [mm]	b2 h13 [mm]	Part No.
10.0		12.0	18.0	6.0	1.00	**WFM-1012-06**
10.0		12.0	18.0	7.0	1.00	**WFM-1012-07**
10.0		12.0	18.0	9.0	1.00	**WFM-1012-09**
10.0	+0.025 +0.083	12.0	18.0	10.0	1.00	**WFM-1012-10**
10.0		12.0	18.0	12.0	1.00	**WFM-1012-12**
10.0		12.0	18.0	15.0	1.00	**WFM-1012-15**
10.0		12.0	18.0	17.0	1.00	**WFM-1012-17**
12.0		14.0	20.0	4.0	1.00	**WFM-1214-04**
12.0		14.0	20.0	4.4	1.00	**WFM-1214-044**
12.0		14.0	20.0	6.0	1.00	**WFM-1214-06**
12.0		14.0	20.0	7.0	1.00	**WFM-1214-07**
12.0		14.0	20.0	9.0	1.00	**WFM-1214-09**
12.0		14.0	20.0	10.0	1.00	**WFM-1214-10**
12.0		14.0	20.0	11.0	1.00	**WFM-1214-11**
12.0		14.0	20.0	12.0	1.00	**WFM-1214-12**
12.0		14.0	20.0	15.0	1.00	**WFM-1214-15**
12.0		14.0	20.0	17.0	1.00	**WFM-1214-17**
12.0	+0.032 +0.102	14.0	20.0	20.0	1.00	**WFM-1214-20**
13.0		15.0	22.0	6.0	1.00	**WFM-1315-06**
14.0		16.0	22.0	4.0	1.00	**WFM-1416-04**
14.0		16.0	22.0	5.0	1.00	**WFM-1416-05**
14.0		16.0	22.0	8.0	1.00	**WFM-1416-08**
14.0		16.0	22.0	12.0	1.00	**WFM-1416-12**
14.0		16.0	22.0	17.0	1.00	**WFM-1416-17**
14.0		16.0	22.0	29.0	1.00	**WFM-1416-29**
15.0		17.0	23.0	9.0	1.00	**WFM-1517-09**
15.0		17.0	23.0	12.0	1.00	**WFM-1517-12**
15.0		17.0	23.0	17.0	1.00	**WFM-1517-17**

[3] After press-fit. *Testing methods, page 61*

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d1 [mm]	d1 Tolerance[3]	d2 [mm]	d3 d13[3] [mm]	b1 h13 [mm]	b2 h13 [mm]	Part No.
15.0		17.0	23.0	20.0	1.00	**WFM-1517-20**
16.0		18.0	24.0	9.0	1.00	**WFM-1618-09**
16.0		18.0	24.0	12.0	1.00	**WFM-1618-12**
16.0		18.0	24.0	17.0	1.00	**WFM-1618-17**
17.0	+0.032	19.0	25.0	12.0	1.00	**WFM-1719-12**
17.0	+0.102	19.0	25.0	18.0	1.00	**WFM-1719-18**
17.0		19.0	25.0	25.0	1.00	**WFM-1719-25**
18.0		20.0	26.0	6.0	1.00	**WFM-1820-06**
18.0		20.0	26.0	12.0	1.00	**WFM-1820-12**
18.0		20.0	26.0	17.0	1.00	**WFM-1820-17**
18.0		20.0	26.0	22.0	1.00	**WFM-1820-22**
20.0		23.0	30.0	8.0	1.50	**WFM-2023-08**
20.0		23.0	30.0	8.5	1.50	**WFM-2023-085**
20.0		23.0	30.0	11.5	1.50	**WFM-2023-11**
20.0		23.0	30.0	14.5	1.50	**WFM-2023-14**
20.0		23.0	30.0	16.5	1.50	**WFM-2023-16**
20.0		23.0	30.0	21.5	1.50	**WFM-2023-21**
24.0	+0.040	27.0	32.0	10.5	1.50	**WFM-2427-10**
25.0	+0.124	28.0	35.0	11.5	1.50	**WFM-2528-11**
25.0		28.0	31.0	13.5	1.50	**WFM-252831-13**
25.0		28.0	35.0	16.5	1.50	**WFM-2528-16**
25.0		28.0	35.0	21.5	1.50	**WFM-2528-21**
25.0		28.0	32.0	30.0	1.50	**WFM-2528-30**
28.0		30.0	35.0	36.0	1.00	**WFM-2830-36**
30.0		34.0	42.0	10.0	2.00	**WFM-3034-10**

d1 [mm]	d1 Tolerance[3]	d2 [mm]	d3 d13[3] [mm]	b1 h13 [mm]	b2 h13 [mm]	Part No.
30.0	+0.040	34.0	42.0	16.0	2.00	**WFM-3034-16**
30.0	+0.124	34.0	42.0	26.0	2.00	**WFM-3034-26**
30.0		34.0	42.0	37.0	2.00	**WFM-3034-37**
32.0		36.0	40.0	16.0	2.00	**WFM-3236-16**
32.0		36.0	40.0	26.0	2.00	**WFM-3236-26**
35.0		39.0	47.0	9.0	2.00	**WFM-3539-09**
35.0		39.0	47.0	16.0	2.00	**WFM-3539-16**
35.0		39.0	47.0	26.0	2.00	**WFM-3539-26**
35.0	+0.050	39.0	50.0	35.0	2.00	**WFM-353950-35**
38.0	+0.150	42.0	50.0	22.0	2.00	**WFM-3842-22**
40.0		44.0	52.0	30.0	2.00	**WFM-4044-30**
40.0		44.0	52.0	40.0	2.00	**WFM-4044-40**
45.0		50.0	58.0	50.0	2.00	**WFM-4550-50**
50.0		55.0	63.0	40.0	2.00	**WFM-5055-40**
50.0		55.0	63.0	50.0	2.00	**WFM-5055-50**
55.0		60.0	68.0	60.0	2.00	**WFM-5560-60**
57.0		62.0	67.0	40.0	2.00	**WFM-5762-40**
60.0	+0.060	65.0	73.0	60.0	2.00	**WFM-6065-60**
65.0	+0.180	70.0	78.0	60.0	2.00	**WFM-6570-60**
70.0		75.0	83.0	100.0	2.50	**WFM-7075-100**
75.0		80.0	88.0	100.0	2.50	**WFM-7580-100**
80.0		85.0	93.0	100.0	2.50	**WFM-8085-100**
90.0	+0.072	95.0	103.0	100.0	2.50	**WFM-9095-100**
100.0	+0.212	105.0	113.0	100.0	2.50	**WFM-100105-100**
120.0		125.0	133.0	100.0	2.50	**WFM-120125-100**

[3] After press-fit. *Testing methods, page 61*

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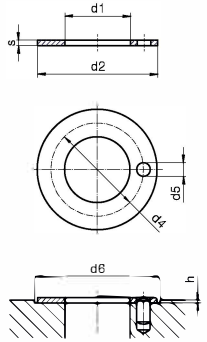
Thrust washer (form T)



Dimensions according to ISO 3547-1 and special dimensions

Order example: WTM-0509-006 – no minimum order quantity.
W300 iglidur® material T Thrust washer M Metric 05 Inner Ø d1 09 Outer Ø d2 006 Height s

d1 +0.25 [mm]	d2 -0.25 [mm]	d4 -0.12 +0.12 [mm]	d5 +0.375 +0.125 [mm]	h +0.2/-0.2 [mm]	d6 +0.12 [mm]	Øs -0.05 [mm]	Part No.
5	9.5	[4]	[4]	0.3	9.5	0.6	**WTM-0509-006**
6	20	13	1.5	1	20	1.5	**WTM-0620-015**
8	18	13	1.5	1	18	1.5	**WTM-0818-015**
10	18	[4]	[4]	0.7	18	1	**WTM-1018-010**
10	18	[4]	[4]	1	18	1.5	**WTM-1018-015**
12	24	18	1.5	1	24	1.5	**WTM-1224-015**
14	26	20	2	1	26	1.5	**WTM-1426-015**
15	24	19.5	1.5	1	24	1.5	**WTM-1524-015**
16	30	23	2	1	30	1.5	**WTM-1630-015**
18	32	25	2	1	32	1.5	**WTM-1832-015**
18	44	30	7	1	44	1.5	**WTM-1844-015**
20	36	28	3	1	36	1.5	**WTM-2036-015**
22	38	30	3	1	38	1.5	**WTM-2238-015**
24	42	33	3	1	42	1.5	**WTM-2442-015**
26	44	35	3	1	44	1.5	**WTM-2644-015**
28	40	38	4	1	48	1.5	**WTM-2840-015**
28	48	38	4	1	48	1.5	**WTM-2848-015**
32	54	43	4	1	54	1.5	**WTM-3254-015**
38	62	50	4	1	62	1.5	**WTM-3862-015**
42	66	54	4	1	66	1.5	**WTM-4266-015**
48	74	61	4	1.5	74	2	**WTM-4874-020**
52	78	65	4	1.5	78	2	**WTM-5278-020**
62	90	76	4	1.5	90	2	**WTM-6290-020**
82	110	[4]	[4]	1.5	110	2	**WTM-82110-020**
102	130	[4]	[4]	1.5	130	2	**WTM-102130-020**
120	150	[4]	[4]	1.5	150	2	**WTM-120150-020**

[4] Design without fixing hole