



## igubal® Spherical Thrust Bearings



Easy to install

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Compensation of misalignment errors

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Compensation of edge loads

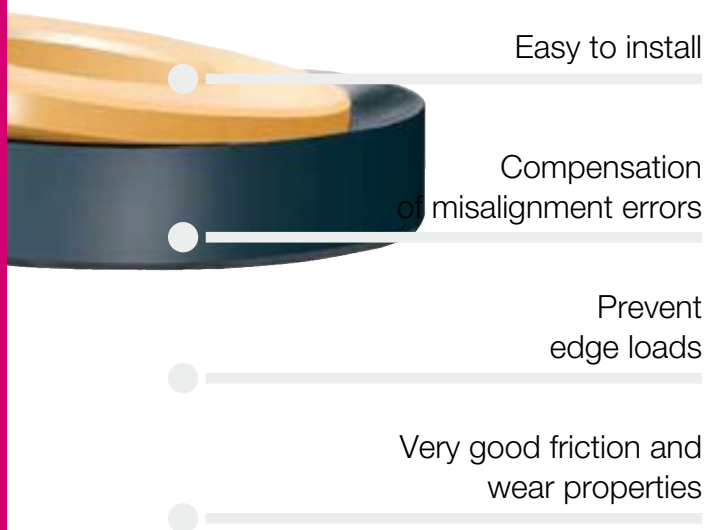
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Very good friction and wear properties

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# igubal® – Spherical Thrust Bearing

igubal® self-aligning spherical thrust bearings are very easy to fit and help to compensate misalignment errors and prevent edge loads.



## When to use it?

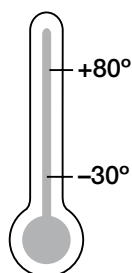
- If you want to save weight
- If corrosion resistance is requested
- If a bearing with a good coefficient of friction is sought



## When not to use it?

- At very high loads
- If temperatures are higher than +80 °C
- If a high number of revolutions have to be achieved

## Temperature



## Product range

1 types  
Ø 5–20 mm



# igubal® Spherical Thrust Bearing | Technical Data

## Mechanical Properties

igubal® self-aligning spherical thrust bearings are very easy to fit and help to compensate for alignment errors and prevent edge loads. The housing pad is made of the impact resistant, thermoplastic composite material igumid G. The spherical washer is made of the iglidur® W300 plain bearing material. This combination provides exceptionally good friction and wear properties.

## Loads

The load capacity of igubal® spherical thrust bearings is very high for standard ambient temperatures. For high continuous loads and high temperatures, the load capacity of the thrust bearings should be tested in an experiment that simulates the application.

## Coefficients of Friction and Speed

Taking into account the radial load, maximum surface speeds up to 0.5 m/s rotating are possible.

## Installation

The housing pad is installed so that it is countersunk and secured. The spherical washer is loosely fitted in the socket and is held in place by the shaft that is placed into the bearing.

## Product Range

igubal® spherical thrust bearings are available in standard form to suit diameters from 5 to 20 mm. Please contact us if you require other dimensions.

## Spherical thrust bearing: SAM

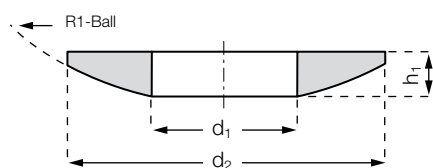


Order key

### SAM-05



### Spherical washer

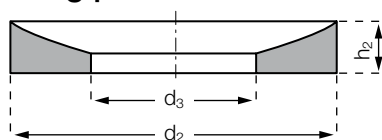


Material:

Spherical washer: **igidur® W300** ► page 135

Housing pad: **igumid G** ► page 1127

### Housing pad



## Technical Data

Part number	Maximum static axial tensile strength		Weight
	short term	long term	
	[N]	[N]	[g]
SAM-05	4,000	2,000	0.9
SAM-06	5,000	2,500	1.1
SAM-08	8,000	4,000	2.2
SAM-10	10,000	5,000	3.4
SAM-12	12,000	6,000	5.9
SAM-16	17,000	8,500	8.5
SAM-20	22,000	11,000	12.8

## Dimensions [mm]

Part number	d1	d3	d2	h1	h2	H	R1	Compensation angle
	spherical washer DIN 7168	housing pad DIN 7168		spherical washer	housing pad	total height	radius	
SAM-05	5.2	7.0	15.0	3.0	3.5	4.7	15.0	3°
SAM-06	6.2	7.5	16.0	3.0	4.0	5.3	16.0	3°
SAM-08	8.2	10.0	20.0	4.0	5.0	6.8	20.0	2°
SAM-10	10.2	12.0	24.0	4.5	5.5	7.5	24.0	2°
SAM-12	12.5	14.5	30.0	5.0	6.2	8.0	32.0	2°
SAM-16	16.5	19.0	36.0	5.5	6.5	8.7	40.0	2°
SAM-20	20.2	23.0	44.0	6.0	7.0	8.6	45.0	2°

\* in assembled condition



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



**prices** price list online  
[www.igus.eu/eu/sam](http://www.igus.eu/eu/sam)