

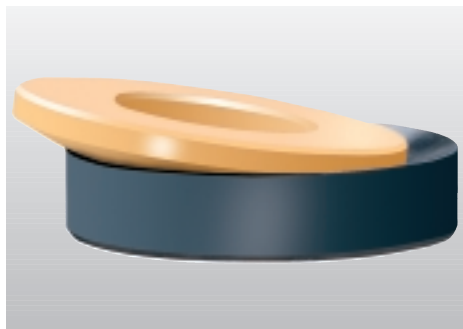


igubal® Spherical Thrust Bearing

igubal® Spherical
Thrust Bearing

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The self-adjusting igubal® spherical thrust bearings are very easy to install 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 disk is made to the same standard as iglide® L280 plain bearings. This combination produces especially good friction and wear properties.

Loads

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

Coefficients of Friction and Speeds

Taking into account the radial load, maximum surface speeds up to 98 fpm rotating are possible.

Installation

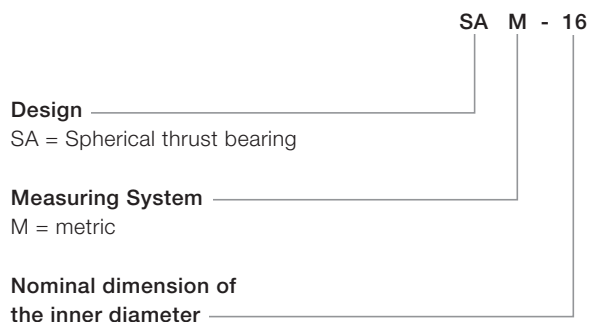
The housing pad is installed so that it is countersunk and secured. The spherical washer is loosely fitted in the socket and is held in place by the shaft that is placed into the bearing.

Product Range

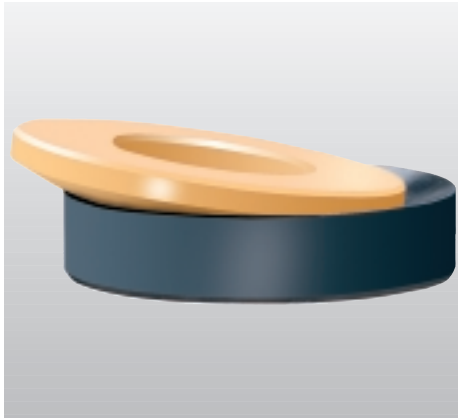
igubal® spherical thrust bearings are provided as standards in dimensions from 5 to 20 mm. Please contact us if you need other dimensions

Structure for part numbers for igubal® spherical thrust bearings

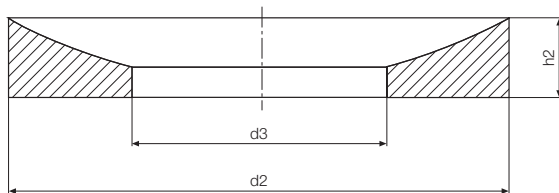
The part numbers of igubal® spherical thrust bearings are designed according to the following system:



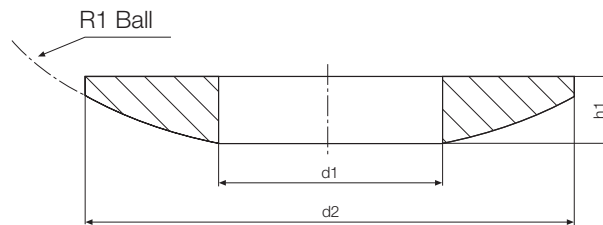
The example shows a spherical thrust bearing with metric dimensions and an inner diameter of 16mm.



Ball Socket



Spherical Disk



Load Data

Part No.	Maximum Static Axial Tensile Strength Short-term	Maximum Static Axial Tensile Strength Long-term
	(N)	(N)
SAM-05	899	449
SAM-06	1124	562
SAM-08	1798	899
SAM-10	2248	1124
SAM-12	2697	1348
SAM-16	3821	1910
SAM-20	4945	2492

Dimensions (mm)

Part No.	d1 Ball Socket DIN 7168	d3 Spherical Disk DIN 7168	d2	h1 Ball Socket	h2 Spherical Disk	H Total Height	R1 Radius	Compensation Angle	Total- Weight (g)
SAM-05	5.2	7.0	15.0	3.0	3.5	4.7	15.0	3°	0.9
SAM-06	6.2	7.5	16.0	3.0	4.0	5.7	16.0	3°	1.1
SAM-08	8.2	10.0	20.0	4.0	5.0	6.4	20.0	2°	2.2
SAM-10	10.2	12.0	24.0	4.5	5.5	7.3	24.0	2°	3.4
SAM-12	12.5	14.5	30.0	5.0	6.0	7.9	32.0	2°	5.9
SAM-16	16.5	19.0	36.0	5.5	6.5	8.5	40.0	2°	8.5
SAM-20	20.2	23.0	44.0	6.0	7.0	8.4	45.0	2°	13.1

Available from stock