

29380



Spherical roller thrust bearing with machined metal cage

Spherical roller thrust bearings accommodate very heavy axial and considerable radial loads. They have the highest load rating of all thrust bearings, enabling compact, high power density bearing arrangements. By combining two or more spherical roller thrust bearings, it is possible to create a bearing arrangement that is either self-aligning, allowing misalignment of the shaft, or very stiff.

- High load carrying capacity
- Can accommodate combined loads
- Allow misalignment or create very stiff bearing arrangements
- Long service life and low friction
- Separable design

Overview

Dimensions

Bore diameter	400 mm
Outside diameter	620 mm
Height	132 mm

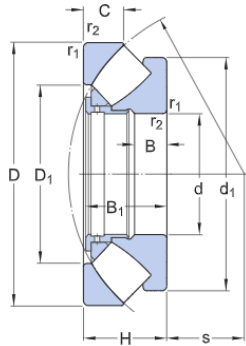
Performance

Basic dynamic load rating	3 450 kN
Basic static load rating	14 600 kN
Reference speed	530 r/min
Limiting speed	950 r/min

Properties

Locating feature, housing washer	None
Bore type	Cylindrical
Cage	Machined metal
Tolerance class	Normal

Technical Specification

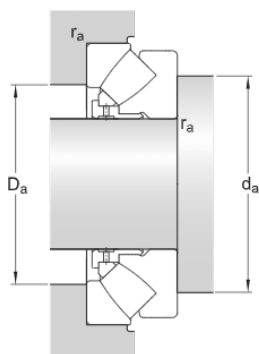


Dimensions

d	400 mm	Bore diameter
D	620 mm	Outside diameter
H	132 mm	Height
d ₁	≈ 596 mm	Outside diameter of shaft washer end side face
D ₁	≈ 494 mm	Shoulder diameter outer ring
B	43 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a machined cage)
B ₁	127 mm	Height shaft washer + cage
C	64 mm	Height housing washer
s	225 mm	Distance from shaft washer end side face to pressure point
r _{1,2}	min. 6 mm	Chamfer dimension shaft washer

Abutment dimensions

d _a	min. 510 mm	Diameter of shaft abutment
D _ε	max. 550 mm	Diameter of housing abutment
r _a	max. 5 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	3 450 kN
Basic static load rating	C_0	14 600 kN
Fatigue load limit	P_u	1 200 kN
Reference speed		530 r/min
Limiting speed		950 r/min
Minimum axial load factor	A	20

Mass

Mass bearing	150 kg
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