

29256



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	280 mm
Outside diameter	380 mm
Height	60 mm

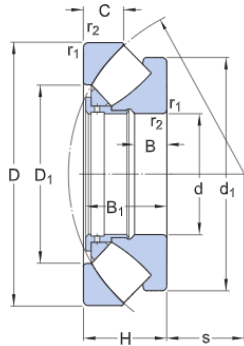
Performance

Basic dynamic load rating	863 kN
Basic static load rating	4 000 kN
Reference speed	1 000 r/min
Limiting speed	1 700 r/min

Properties

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

Technical Specification

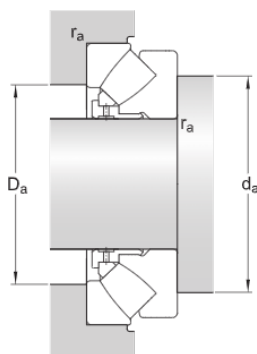


Dimensions

d	280 mm	Bore diameter
D	380 mm	Outside diameter
H	60 mm	Height
d ₁	≈ 370 mm	Outside diameter of shaft washer end side face
D ₁	≈ 323 mm	Shoulder diameter outer ring
B	19 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a machined cage)
B ₁	57 mm	Height shaft washer + cage
C	30.5 mm	Height housing washer
s	150 mm	Distance from shaft washer end side face to pressure point
r _{1,2}	min. 2.1 mm	Chamfer dimension shaft washer

Abutment dimensions

d _a	min. 325 mm	Diameter of shaft abutment
D _a	max. 347 mm	Diameter of housing abutment
r _a	max. 2 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	863 kN
Basic static load rating	C_0	4 000 kN
Fatigue load limit	P_u	375 kN
Reference speed		1 000 r/min
Limiting speed		1 700 r/min
Minimum axial load factor	A	1.5

Mass

Mass bearing		19.5 kg
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