



29248 Spherical roller thrust bearing with machined metal cage

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	240 mm
Outside diameter	340 mm
Height	60 mm

Performance

Basic dynamic load rating	799 kN
Basic static load rating	3 450 kN
Reference speed	1 100 r/min
Limiting speed	1 800 r/min

Properties

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

Technical Specification

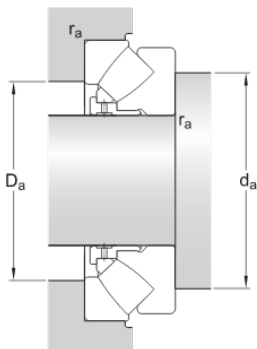


Dimensions

d	240 mm	Bore diameter
D	340 mm	Outside diameter
H	60 mm	Height
d_1	\approx 330 mm	Outside diameter of shaft washer end side face
D_1	\approx 283 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 mm	Height housing washer
s	130 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. 290 mm	Diameter of shaft abutment
D_a	max. 308 mm	Diameter of housing abutment
r_a	max. 2 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	799 kN
Basic static load rating	C_0	3 450 kN
Fatigue load limit	P_u	335 kN
Reference speed		1 100 r/min
Limiting speed		1 800 r/min
Minimum axial load factor	A	1.1

Mass

Mass bearing		16.5 kg
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