

29434 E



Spherical roller thrust bearing with stamped steel 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	170 mm
Outside diameter	340 mm
Height	103 mm

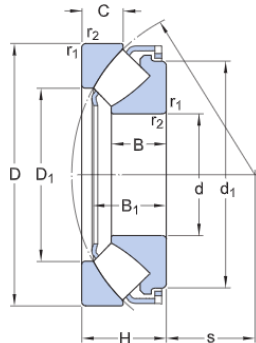
Performance

Basic dynamic load rating	2 360 kN
Basic static load rating	6 550 kN
Reference speed	1 100 r/min
Limiting speed	1 900 r/min
SKF performance class	SKF Explorer

Properties

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

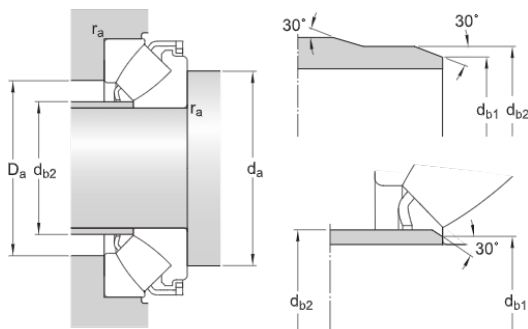
Technical Specification



Dimensions

d	170 mm	Bore diameter
D	340 mm	Outside diameter
H	103 mm	Height
d ₁	≈ 297 mm	Outside diameter of shaft washer end side face
D ₁	≈ 236 mm	Shoulder diameter outer ring
B	65.5 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B ₁	91.2 mm	Height shaft washer + cage
C	50 mm	Height housing washer
s	104 mm	Distance from shaft washer end side face to pressure point
r _{1,2}	min. 5 mm	Chamfer dimension shaft washer

Abutment dimensions



d _ε	min. 250 mm	Diameter of shaft abutment
d _k	max. 185 mm	Abutment diameter of spacer ring
d _k	max. 199 mm	Outside diameter of spacer ring
D _ε	max. 286 mm	Diameter of housing abutment
r _a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 360 kN
Basic static load rating	C ₀	6 550 kN
Fatigue load limit	P _u	640 kN
Reference speed		1 100 r/min
Limiting speed		1 900 r/min
Minimum axial load factor	A	4.1

Mass

Mass bearing	44.5 kg
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