

29424 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	120 mm
Outside diameter	250 mm
Height	78 mm

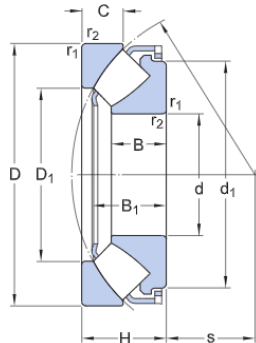
Performance

Basic dynamic load rating	1 370 kN
Basic static load rating	3 450 kN
Reference speed	1 500 r/min
Limiting speed	2 600 r/min
SKF performance class	SKF Explorer

Properties

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

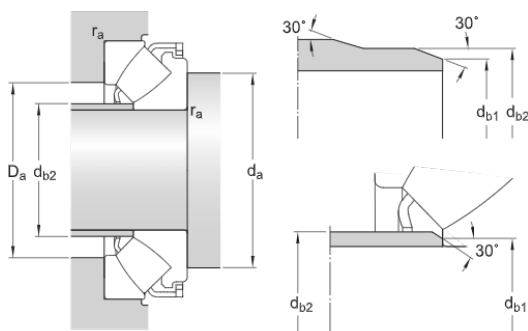
Technical Specification



Dimensions

d	120 mm	Bore diameter
D	250 mm	Outside diameter
H	78 mm	Height
d ₁	≈ 216 mm	Outside diameter of shaft washer end side face
D ₁	≈ 171 mm	Shoulder diameter outer ring
B	50.5 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B ₁	70.3 mm	Height shaft washer + cage
C	36.5 mm	Height housing washer
s	74 mm	Distance from shaft washer end side face to pressure point
r _{1,2}	min. 4 mm	Chamfer dimension shaft washer

Abutment dimensions



d _ε	min. 180 mm	Diameter of shaft abutment
d _k	max. 132 mm	Abutment diameter of spacer ring
d _k	max. 142 mm	Outside diameter of spacer ring
D _ε	max. 209 mm	Diameter of housing abutment
r _a	max. 3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	1 370 kN
Basic static load rating	C ₀	3 450 kN
Fatigue load limit	P _u	375 kN
Reference speed		1 500 r/min
Limiting speed		2 600 r/min
Minimum axial load factor	A	1.1

Mass

Mass bearing	17.5 kg
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