

Image may differ from product. See technical specification for details.

29438 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	190 mm
Outside diameter	380 mm
Height	115 mm

Performance

Basic dynamic load rating	2 850 kN
Basic static load rating	8 000 kN
Reference speed	950 r/min
Limiting speed	1 700 r/min
SKF performance class	SKF Explorer

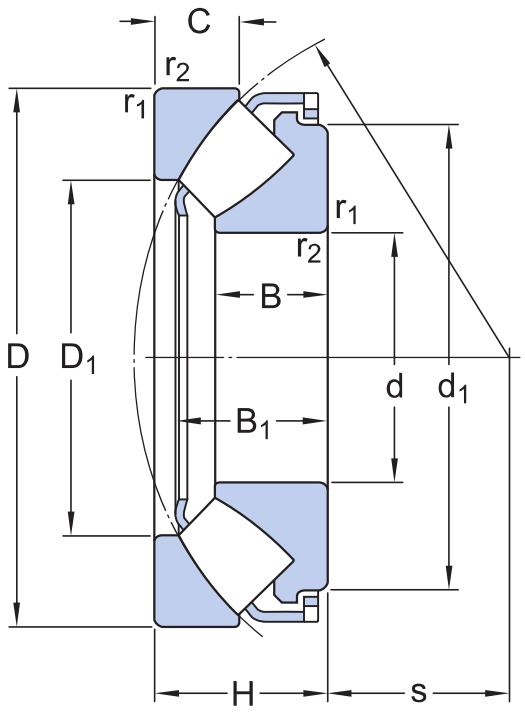
Properties

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

Logistics

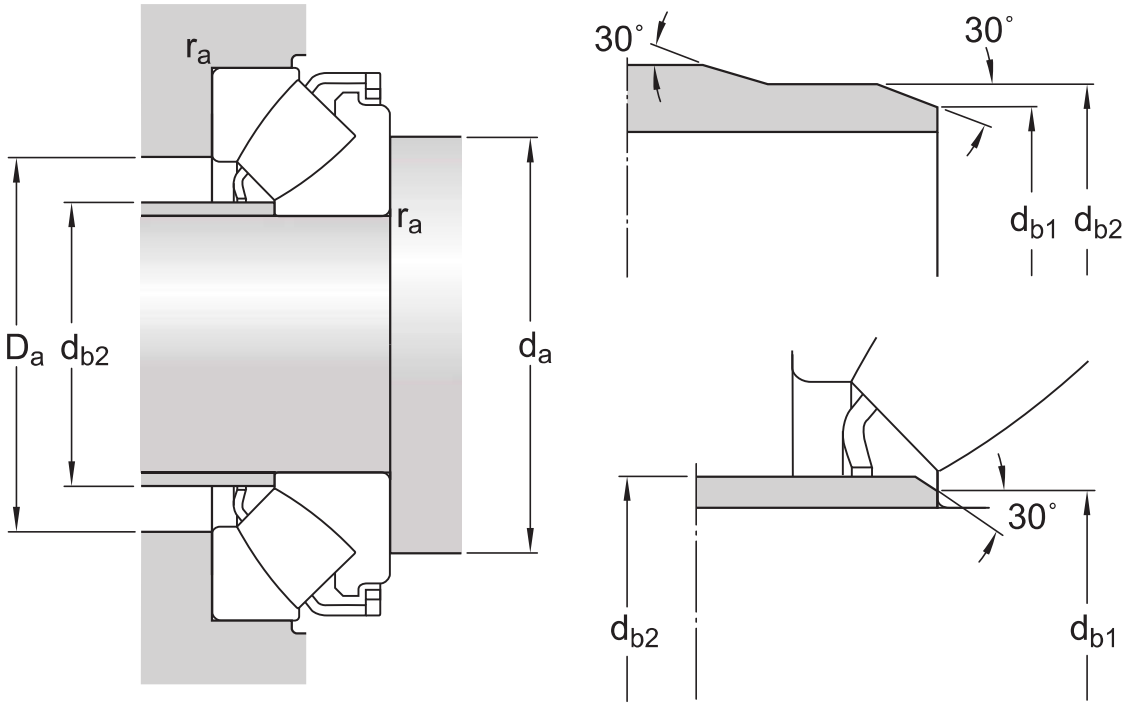
Product net weight	57 kg
eClass code	23-05-11-03
UNSPSC code	31171507

Technical specification



Dimensions

d	190 mm	Bore diameter
D	380 mm	Outside diameter
H	115 mm	Height
d_1	≈ 332 mm	Outside diameter of shaft washer end side face
D_1	≈ 265 mm	Shoulder diameter outer ring
B	73 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B_1	101 mm	Height shaft washer + cage
C	55.5 mm	Height housing washer
s	117 mm	Distance from shaft washer end side face to pressure point
$r_{1,2}$	min. 5 mm	Chamfer dimension shaft washer



Abutment dimensions

d_a	min. 280 mm	Diameter of shaft abutment
d_{b1}	max. 207 mm	Abutment diameter of spacer ring
d_{b2}	max. 223 mm	Outside diameter of spacer ring
D_a	max. 321 mm	Diameter of housing abutment
r_a	max. 4 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	2 850 kN
Basic static load rating	C_0	8 000 kN
Fatigue load limit	P_u	765 kN
Reference speed		950 r/min
Limiting speed		1 700 r/min
Minimum axial load factor	A	6.1

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

More Information

Product details

- Designs and variants
- General bearing specifications
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Lubrication
- Mounting
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing failure and how to prevent it

Tools

- SimPro Quick
- SKF Product select
- Bearing Frequency Calculator
- LubeSelect for SKF greases
- Heater selection tool

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