

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

29230 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	150 mm
Outside diameter	215 mm
Height	39 mm

Performance

Basic dynamic load rating	408 kN
Basic static load rating	1 600 kN
Reference speed	1 800 r/min
Limiting speed	2 800 r/min

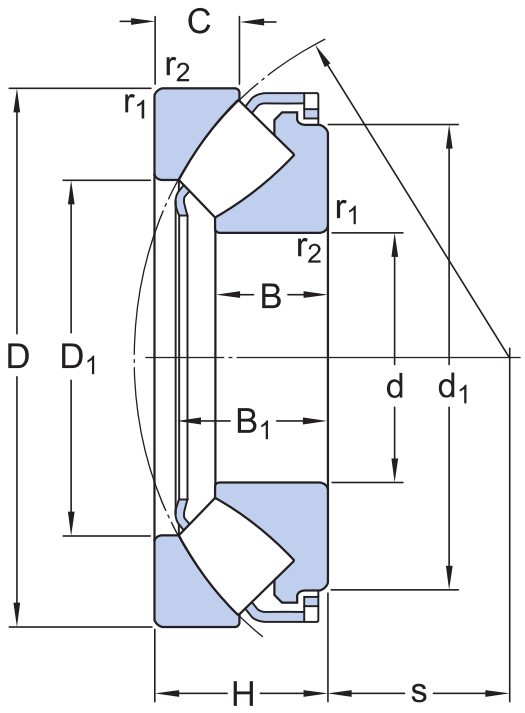
Properties

Locating feature, housing washer	None
Bore type	Cylindrical
Cage	Sheet metal
Tolerance class	Normal
Indicative carbon footprint for new product	15.9 kg CO_2e

Logistics

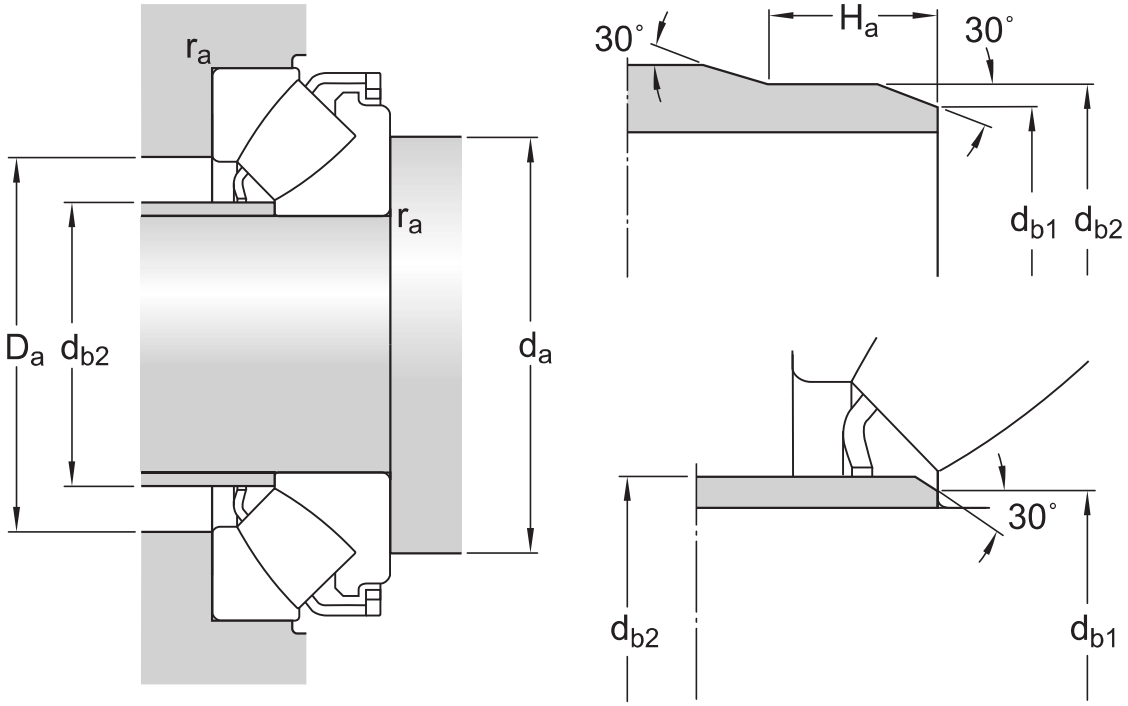
Product net weight	4.29 kg
eClass code	23-05-11-03
UNSPSC code	31171507

Technical specification



Dimensions

d	150 mm	Bore diameter
D	215 mm	Outside diameter
H	39 mm	Height
d_1	≈ 200 mm	Outside diameter of shaft washer end side face
D_1	≈ 176 mm	Shoulder diameter outer ring
B	24 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B_1	34.3 mm	Height shaft washer + cage
C	20.5 mm	Height housing washer
s	82 mm	Distance from shaft washer end side face to pressure point
$r_{1,2}$	min. 1.5 mm	Chamfer dimension shaft washer



Abutment dimensions

d_a	min. 180 mm	Diameter of shaft abutment
d_{b1}	max. 154 mm	Abutment diameter of spacer ring
d_{b2}	max. 154 mm	Outside diameter of spacer ring
H_a	min. 14 mm	Length of spacer ring
D_a	max. 193 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	408 kN
Basic static load rating	C_0	1 600 kN
Fatigue load limit	P_u	180 kN
Reference speed		1 800 r/min
Limiting speed		2 800 r/min
Minimum axial load factor	A	0.24

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

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