



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

29412 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	2.362 in
Outside diameter	5.118 in
Height	1.654 in

Performance

Basic dynamic load rating	87 675 lbf
Basic static load rating	205 700 lbf
Reference speed	2 800 r/min
Limiting speed	5 000 r/min
SKF performance class	SKF Explorer

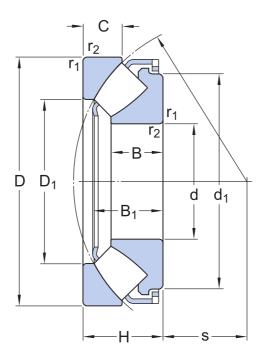
Properties

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

Logistics

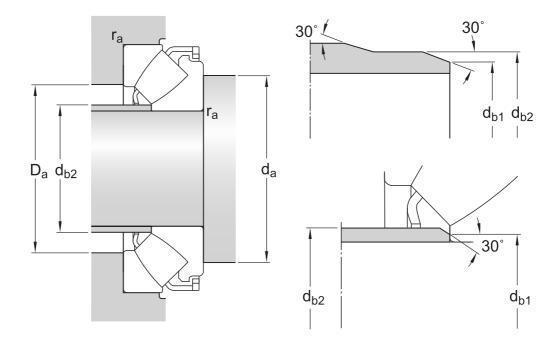
Product net weight	5.664 lb
eClass code	23-05-11-03
UNSPSC code	31171507

Technical specification



Dimensions

d	2.362 in	Bore diameter
D	5.118 in	Outside diameter
Н	1.654 in	Height
d_1	≈ 4.409 in	Outside diameter of shaft washer end side face
D_1	≈ 3.366 in	Shoulder diameter outer ring
В	1.063 in	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B_1	1.445 in	Height shaft washer + cage
С	0.827 in	Height housing washer
S	1.496 in	Distance from shaft washer end side face to pressure point
r _{1,2}	min. 0.059 in	Chamfer dimension shaft washer



Abutment dimensions

d _a	min. 3.543 in	Diameter of shaft abutment
d_{b1}	max. 2.638 in	Abutment diameter of spacer ring
d_{b2}	max. 2.638 in	Outside diameter of spacer ring
Da	max. 4.213 in	Diameter of housing abutment
r _a	max. 0.059 in	Fillet radius

Calculation data

Basic dynamic load rating	С	87 675 lbf
Basic static load rating	C_0	205 700 lbf
Fatigue load limit	P_{u}	25 628 lbf
Reference speed		2 800 r/min
Limiting speed		5 000 r/min
Minimum axial load factor	А	0.08

More Information

Engineering Tools Product details information SimPro Quick Designs and variants Principles of rolling bearing selection General bearing specifications SKF Product select General bearing knowledge Loads Bearing Frequency Calculator Bearing selection process Temperature limits LubeSelect for SKF greases Bearing failure and how to prevent it Permissible speed Heater selection tool Design considerations Lubrication Mounting Designation system



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