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Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: swf@nt-rt.ru || сайт: <https://skf.nt-rt.ru/>



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	60 mm
Height	42 mm
Outside diameter	130 mm

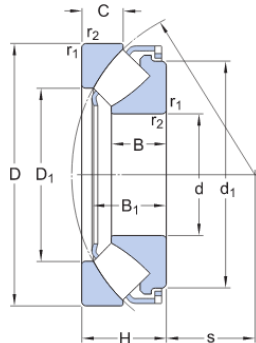
Performance

Basic dynamic load rating	390 kN
Basic static load rating	915 kN
Limiting speed	5 000 r/min
Reference speed	2 800 r/min
SKF performance class	SKF Explorer

Properties

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

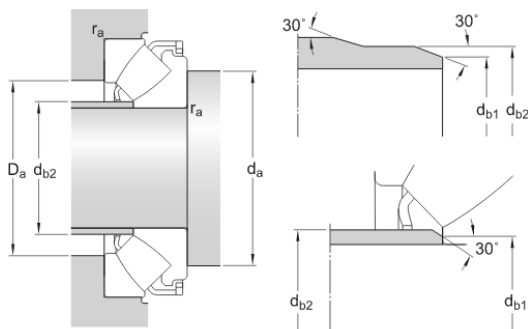
Technical Specification



Dimensions

d	60 mm	Bore diameter
D	130 mm	Outside diameter
H	42 mm	Nominal Height
d ₁	≈ 112 mm	Outside diameter of shaft washer end side face
D ₁	≈ 85.5 mm	Shoulder diameter outer ring
B	27 mm	Width shaft washer or length of shaft washer bore diameter that fits on shaft (bearings with a stamped steel cage)
B ₁	36.7 mm	Height shaft washer + cage
C	21 mm	Height housing washer
s	38 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. 90 mm	Diameter of shaft abutment
d _b	max. 67 mm	Abutment diameter of spacer ring
d _b	max. 67 mm	Outside diameter of spacer ring
D _a	max. 107 mm	Diameter of housing abutment
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	390 kN
Basic static load rating	C ₀	915 kN
Fatigue load limit	P _u	114 kN
Reference speed		2 800 r/min
Limiting speed		5 000 r/min
Minimum axial load factor	A	0.08

Mass

Mass bearing	2.6 kg
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81102 TN



Single row cylindrical roller thrust bearing, single direction

Single row cylindrical roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction, but not radial loads. They provide a high degree of stiffness and require little axial space. They are mainly used in applications where thrust ball bearings do not have sufficient load carrying capacity. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require little axial space
- Separable design

Overview

Dimensions

Bore diameter	15 mm
Height	9 mm
Outside diameter	28 mm

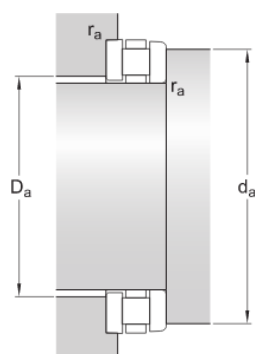
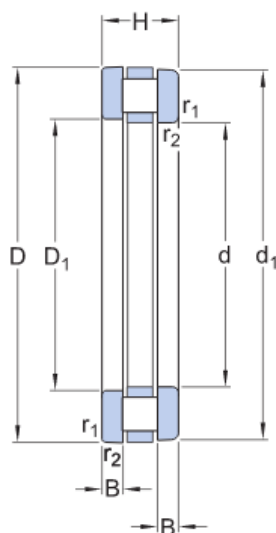
Performance

Basic dynamic load rating	11.2 kN
Basic static load rating	27 kN
Limiting speed	8 500 r/min
Reference speed	4 300 r/min

Properties

Axial load capability	Single-direction
Bearing part	Complete bearing
Cage	Non-metallic
Coating	Without
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

Technical Specification



Dimensions

d	15 mm	Bore diameter
D	28 mm	Outside diameter
H	9 mm	Nominal height
d ₁	28 mm	Outside diameter shaft washer
D ₁	16 mm	Bore diameter housing washer
B	2.75 mm	Height shaft washer
r _{1,2}	min. 0.3 mm	Chamfer dimension housing washer

Abutment dimensions

d _a	min. 27 mm	Abutment diameter shaft
D _a	max. 16 mm	Abutment diameter housing
r _a	max. 0.3 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	11.2 kN
Basic static load rating	C ₀	27 kN
Fatigue load limit	P _u	2.45 kN
Reference speed		4 300 r/min
Limiting speed		8 500 r/min
Minimum axial load factor	A	0.000058

Mass

Mass bearing	0.024 kg
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Included products

Roller and cage thrust assembly	K 81102 TN
Shaft washer	WS 81102
Housing washer	GS 81102



AXK 0414 TN

Needle roller and cage thrust assembly

Needle roller and cage thrust assemblies are designed to accommodate heavy axial loads and peak loads in one direction. They provide a high degree of stiffness within a minimum axial space. In applications where the faces of adjacent machine components serve as raceways, needle roller thrust bearings take up no more space than a conventional thrust washer. The bearings can also be combined with bearing washers to create complete bearings.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require minimal axial space
- Can be combined with bearing washers

Overview

Dimensions

Bore diameter	4 mm
Height	2 mm
Outside diameter	14 mm

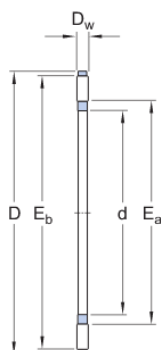
Performance

Basic dynamic load rating	4.15 kN
Basic static load rating	8.3 kN
Limiting speed	15 000 r/min
Reference speed	7 500 r/min

Properties

Bearing part	Needle roller and cage assembly
Cage	Non-metallic
Coating	Without
Material, bearing	Bearing steel
Roller grade	G2

Technical Specification



Dimensions

d	4 mm	Bore diameter
D	14 mm	Outside diameter
D _w	2 mm	Diameter roller
E _a	min. 5 mm	Raceway diameter (min.) roller and cage thrust assembly
E _b	max. 13 mm	Raceway diameter (max.) roller and cage thrust assembly

Calculation data

Basic dynamic load rating	C	4.15 kN
Basic static load rating	C ₀	8.3 kN
Fatigue load limit	P _u	0.95 kN
Reference speed		7 500 r/min
Limiting speed		15 000 r/min

Mass

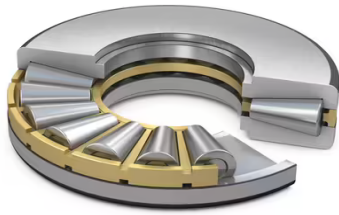
Mass roller and cage thrust assembly	0.0007 kg
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Associated products

Thin universal washer	AS 0414
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BFS-8054

Single direction tapered roller thrust bearing



Single direction tapered roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction. The bearings provide a high degree of stiffness and require little axial space. SKF manufactures tapered roller thrust bearings in several different basic and application-specific designs and variants.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require little axial space
- Separable design

Overview

Dimensions

Bore diameter	203.2 mm
Height	92.075 mm
Outside diameter	419.1 mm

Performance

Basic dynamic load rating	3 450 kN
Basic static load rating	12 500 kN
Limiting speed	750 r/min
Reference speed	400 r/min
SKF performance class	SKF Explorer

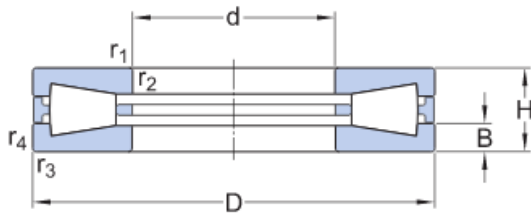
Properties

Axial load capability	Double-direction
Bearing part	Complete bearing
Cage	Window-type machined brass
Coating	Without
Lubricant	None
Number of rows	1
Sealing	Without

Technical Specification

Industry reference

T811

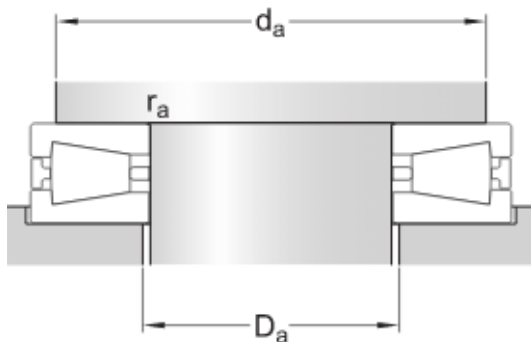


Dimensions

d	203.2 mm	Bore diameter washer
D	419.1 mm	Outside diameter washer
H	92.075 mm	Nominal height
B	30 mm	Height of washer
r _{1,2}	min. 9.7 mm	Chamfer dimension, shaft side
r _{3,4}	min. 9.7 mm	Chamfer dimension, shaft side

Abutment dimensions

d _a	min. 384 mm	Abutment diameter shaft
D _a	max. 231 mm	Abutment diameter housing
r _a	max. 8 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	3 450 kN
Basic static load rating	C ₀	12 500 kN
Fatigue load limit	P _u	800 kN
Reference speed		400 r/min

Limiting speed	750 r/min
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Comparative load ratings for the oil and gas industry

Dynamic load rating	C_{90}	1 200 kN
Dynamic load rating	C_1	4 627 kN
Main thrust rating (API 8C)	W_S	273 ton (US)

Mass

Mass bearing	63 kg
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