



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

53213

Single direction thrust ball bearing with sphered housing washer

Single direction thrust ball bearings, with sphered housing washer, can accommodate axial loads in one direction. They must not be subjected to any radial load. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit. The sphered housing washers can accommodate initial misalignment when

configured correctly with a sphered seat washer or a machine component with a sphered surface.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enables interference fit
- Sphered housing washers can accommodate initial misalignment

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	100 mm
Height	28.7 mm
Radius of aligning surface	80 mm

Performance

Basic dynamic load rating	60.5 kN
Basic static load rating	150 kN
Reference speed	2 600 r/min
Limiting speed	3 600 r/min

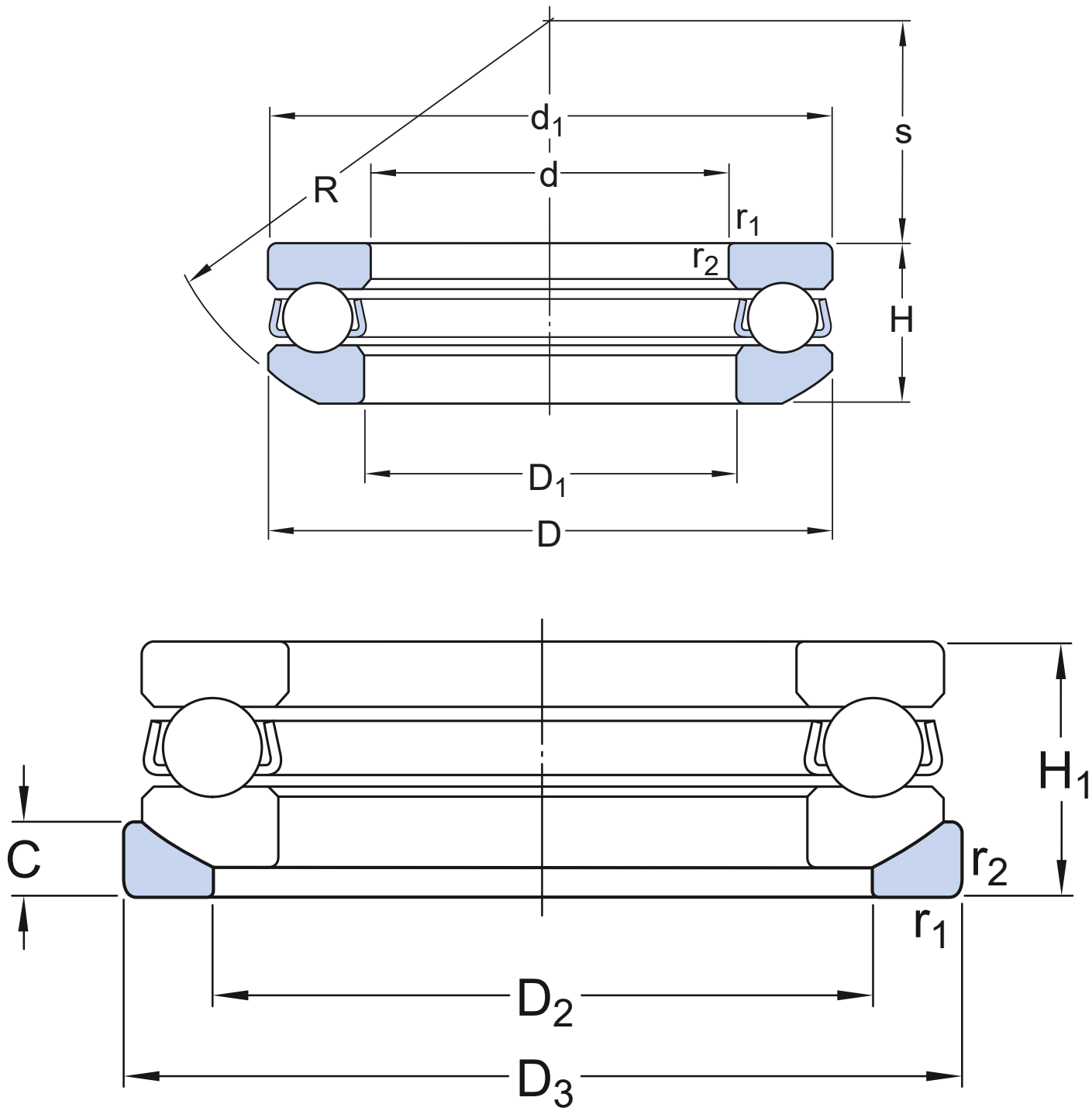
Properties

Axial load capability	Single-direction
Number of rows	1
Cage	Sheet metal
Housing washer type	Sphered
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without

Logistics

Product net weight	0.704 kg
eClass code	23-05-10-01
UNSPSC code	31171507

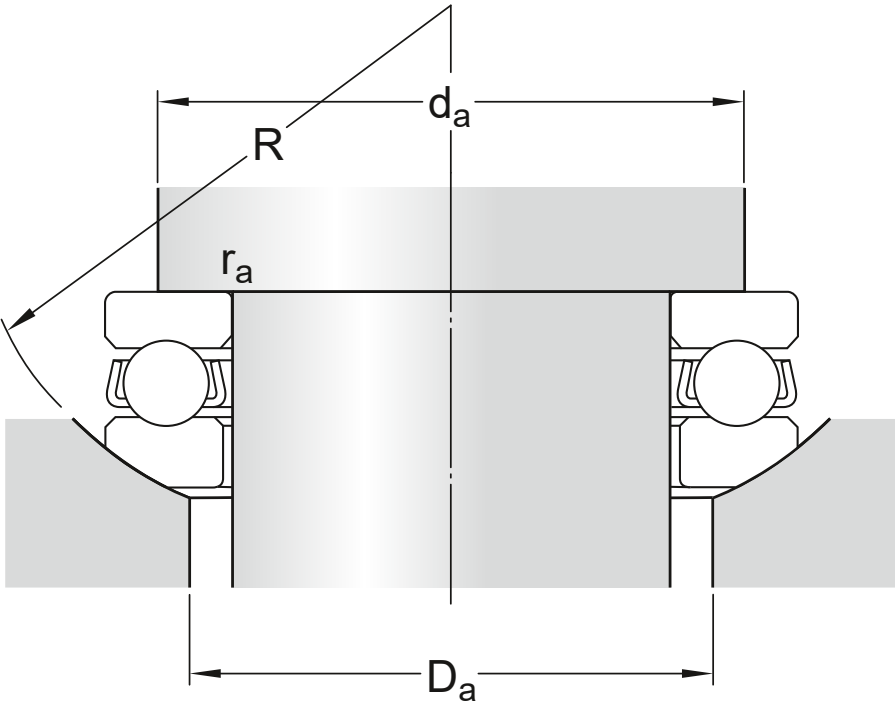
Technical specification



Dimensions

d	65 mm	Bore diameter
D	100 mm	Outside diameter
H	28.7 mm	Height

H ₁	32 mm	Height bearing including seat washer
d ₁	≈ 100 mm	Outside diameter shaft washer
D ₁	≈ 67 mm	Inner diameter housing washer
D ₂	82 mm	Inner diameter seat washer
D ₃	105 mm	Outside diameter seat washer
C	9 mm	Height seat washer
R	80 mm	Radius sphered housing washer
s	40 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer





Abutment dimensions

d_a	min. 86 mm	Abutment diameter shaft
D_a	max. 82 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	60.5 kN
Basic static load rating	C_0	150 kN
Fatigue load limit	P_u	5.5 kN
Reference speed		2 600 r/min
Limiting speed		3 600 r/min
Minimum load factor	A	0.14

Associated products

Seat washer	U 213
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: [table 1](#)

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

Compatible products

Recommended product

Sphered seat washer for thrust ball bearings	U 213
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More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Lubrication External sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select Bearing Frequency Calculator SimPro Quick LubeSelect for SKF greases Heater selection tool
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