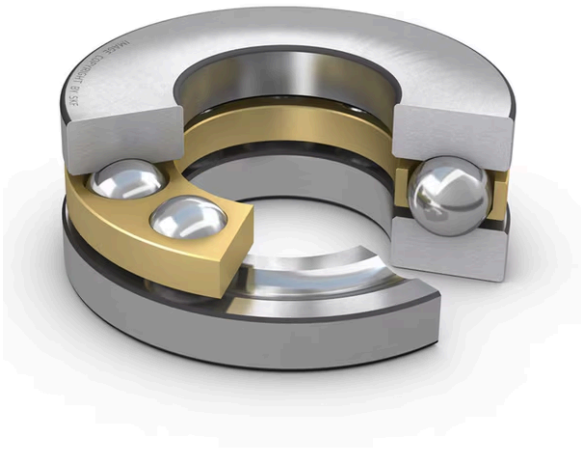


Image may differ from product. See technical specification for details.

51413 M

Single direction thrust ball bearing

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enable interference fit

Overview

Dimensions

Bore diameter	65 mm
Outside diameter	140 mm
Height	56 mm

Performance

Basic dynamic load rating	216 kN
Basic static load rating	490 kN
Reference speed	1 500 r/min
Limiting speed	2 200 r/min

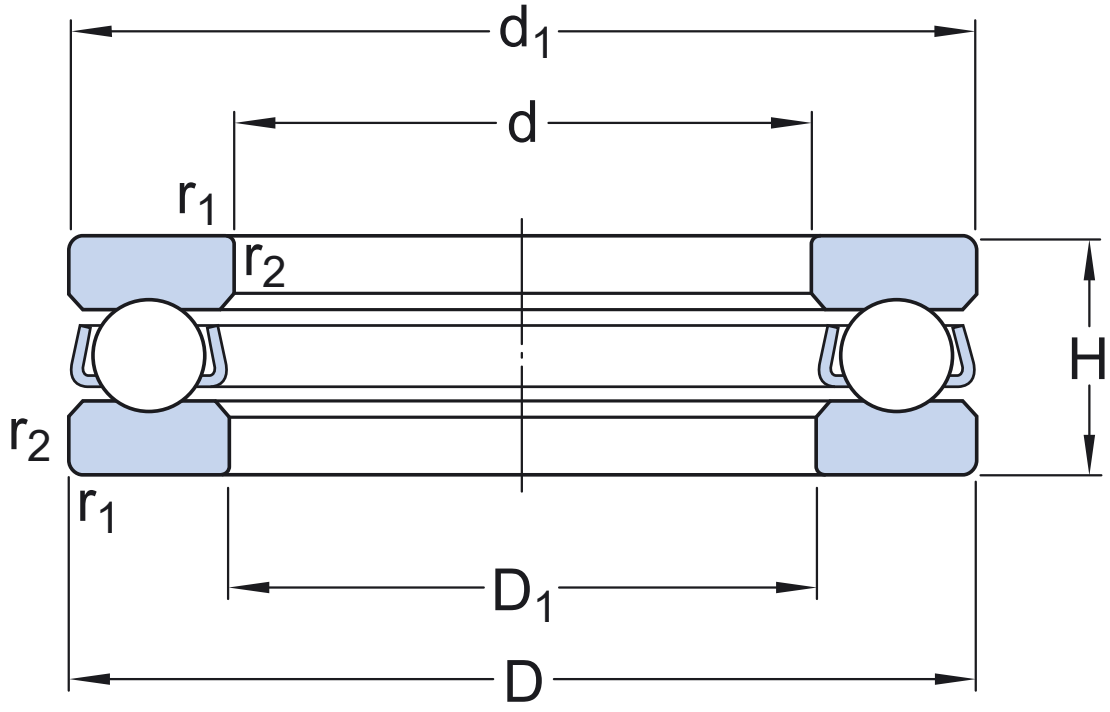
Properties

Axial load capability	Single-direction
Number of rows	1
Cage	Machined brass
Housing washer type	Flat
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Indicative carbon footprint for new product	16.5 kg CO_2e

Logistics

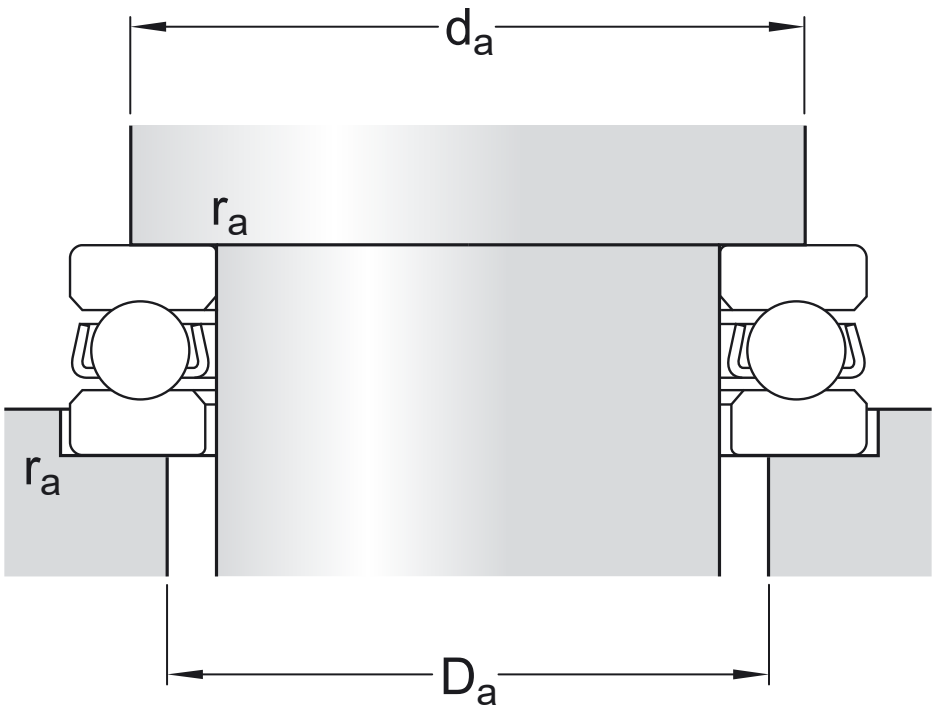
Product net weight	4.47 kg
eClass code	23-05-10-01
UNSPSC code	31171507

Technical specification



Dimensions

d	65 mm	Bore diameter
D	140 mm	Outside diameter
H	56 mm	Height
d_1	≈ 140 mm	Outside diameter shaft washer
D_1	≈ 68 mm	Inner diameter housing washer
$r_{1,2}$	min. 2 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 110 mm	Abutment diameter shaft
D_a	max. 95 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	216 kN
Basic static load rating	C_0	490 kN
Fatigue load limit	P_u	18 kN
Reference speed		1 500 r/min
Limiting speed		2 200 r/min
Minimum load factor	A	1.2

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

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