



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

1215 K

Self-aligning ball bearing with tapered bore

Self-aligning ball bearings, with a tapered bore, have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection. The tapered bore facilitates ease of mounting via adapter sleeves or withdrawal sleeves.

- Ease of mounting via adapter sleeves or withdrawal sleeves
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance

- Low friction

Overview

Dimensions

Bore diameter	75 mm
Outside diameter	130 mm
Width	25 mm

Performance

Basic dynamic load rating	39 kN
Basic static load rating	15.6 kN
Reference speed	10 000 r/min
Limiting speed	6 700 r/min

Properties

Retaining feature, inner ring	None
Locating feature, bearing outer ring	None
Number of rows	2
Bore type	Tapered 1:12
Cage	Sheet metal
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

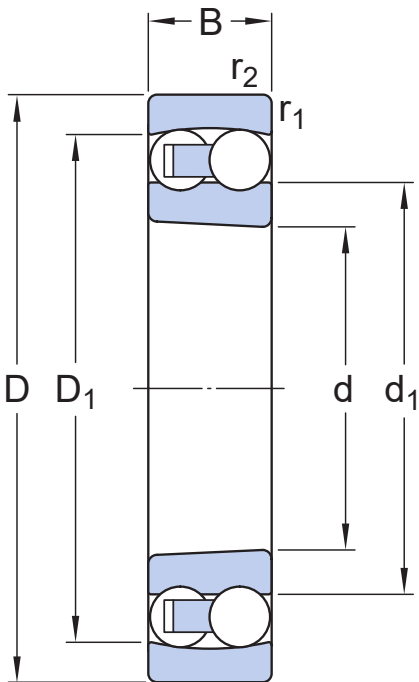
Logistics

Product net weight	1.31 kg
eClass code	23-05-08-06
UNSPSC code	31171532

Technical specification

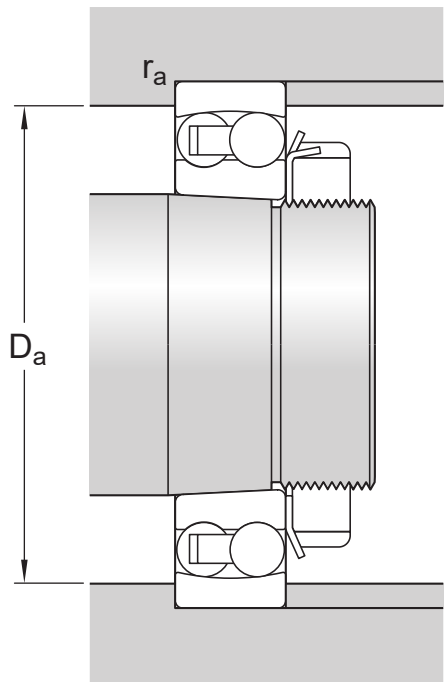
Bore type

Tapered 1:12



Dimensions

d	75 mm	Bore diameter
D	130 mm	Outside diameter
B	25 mm	Width
d ₁	≈ 93.05 mm	Shoulder diameter inner ring
D ₁	≈ 114.2 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension



Abutment dimensions

D _a	max. 121 mm	Abutment diameter housing
r _a	max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	39 kN
Basic static load rating	C ₀	15.6 kN
Fatigue load limit	P _u	0.8 kN
Reference speed		10 000 r/min
Limiting speed		6 700 r/min
Permissible angular misalignment	α	2.5 °
Calculation factor	k _r	0.04
Limiting value	e	0.18
Calculation factor	Y ₀	3.6
Calculation factor	Y ₁	3.5
Calculation factor	Y ₂	5.4

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- [Tolerances: Normal, JS7](#)
- [Radial internal clearance: table](#)

BEARING INTERFACES




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

Compatible products

Recommended product

Adapter sleeve with KM lock nut and MB lock washer, metric dimensions	H 215
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HA 215
Adapter sleeve with KM lock nut and MB lock washer, metric dimensions with inch bore	HE 215
Adapter sleeve with AN or N lock nut and W lock washer, inch dimensions	SNW 15X2.7/16

More Information

<div> Product details</div> <div>Designs and variants</div> <div>General bearing specifications</div> <div>Loads</div> <div>Temperature limits</div> <div>Permissible speed</div> <div>Design considerations</div> <div>Mounting</div> <div>Designation system</div>	<div> Engineering information</div> <div>Principles of rolling bearing selection</div> <div>General bearing knowledge</div> <div>Bearing selection process</div> <div>Bearing interfaces</div> <div>Seat tolerances for standard conditions</div> <div>Selecting internal clearance</div> <div>Lubrication</div> <div>Sealing, mounting and dismounting</div> <div>Bearing failure and how to prevent it</div>	<div> Tools</div> <div>SKF Product select - Select and evaluate bearing</div> <div>SKF Product select - Combine housing with bearing</div> <div>SimPro Quick</div> <div>LubeSelect for SKF greases</div> <div>Heater selection tool</div> <div>Drive-up Method Program</div> <div>Oil Injection Method Program</div> <div>Tool and Accessory Selector for sleeves and shafts</div>
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