



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

NKX 17 Z

Combined needle roller / thrust ball bearing with a cover

These bearings consist of a radial needle roller bearing combined with a thrust ball bearing. Together they can accommodate both radial loads and axial loads in one direction. In addition, they can operate at relatively high speeds. Their low cross-sectional height makes the bearings particularly suitable for applications where other types of locating bearing

arrangements occupy too much space. The thrust part is capped with a cover that forms a gap-type seal to retain the grease in the bearings.

- Accommodate radial and axial loads in one direction
- High load carrying capacity
- Relatively high-speed capability
- Low cross section
- Non-separable design

Overview

Dimensions

Bore diameter	17 mm
Outside diameter	26 mm
Width	25 mm

Performance

Reference speed	8 500 r/min
Limiting speed	7 000 r/min

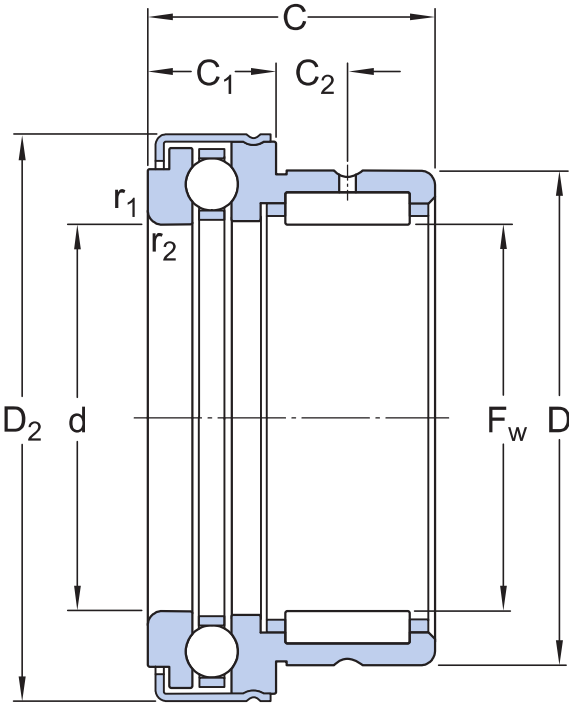
Properties

Rolling bearing type	Needle roller / thrust ball bearing
Bearing part	Radial part without inner ring
Thrust part	With cage
Radial part	With cage
Rolling element (thrust part)	Balls
Axial load capability	Single-direction
Tolerance class	Other
Material, bearing	Bearing steel
Coating	Without
Special feature	Thrust part with stamped steel cover without lubrication holes
Lubricant (thrust part)	Grease

Logistics

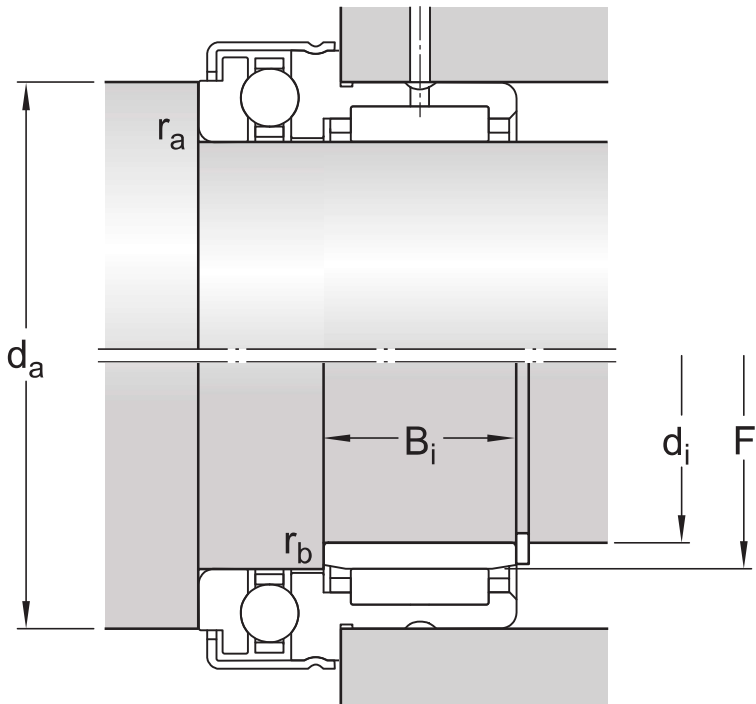
Product net weight	0.055 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

F_w	17 mm	Diameter under rollers
D	26 mm	Outside diameter
C	25 mm	Width
C_1	9 mm	Width of thrust part
C_1	8 mm	Distance side face to lubrication hole
d	17 mm	Bore diameter of thrust part
D_2	31.2 mm	Diameter of stamped steel cover
$r_{1,2}$	min. 0.3 mm	Chamfer dimension



Abutment dimensions

d_a	min. 25.7 mm	Diameter of shaft abutment
r_a	max. 0.3 mm	Radius of fillet
r_b	max. 0.3 mm	Radius of fillet
d_i	14 mm	Bore diameter of associated inner ring
F	17 mm	Diameter of inner ring raceway
B_i	17 mm	Width of associated inner ring

Calculation data

Basic dynamic load rating, radial	C	12.1 kN
Basic static load rating, radial	C_0	16.6 kN
Basic dynamic load rating, axial	C	10.8 kN
Basic static load rating, axial	C_0	19.6 kN
Fatigue load limit, radial	P_u	1.96 kN
Fatigue load limit, axial	P_u	0.735 kN
Minimum axial load factor	A	0.002
Reference speed		8 500 r/min
Limiting speed		7 000 r/min

Associated products

Inner ring	IR 14x17x17
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

DESIGN CONSIDERATIONS

- [Shaft and housing tolerances: table](#)

Compatible products

Recommended product

Inner ring for needle roller bearings, IR series

[IR 14X17X17](#)

More Information

 Product details Needle roller / angular contact ball bearings Needle roller / thrust ball bearings Needle roller / cylindrical roller thrust bearings General bearing specifications Loads Temperature limits Permissible speed Design considerations Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing failure and how to prevent it	 Tools SimPro Quick Bearing Select Engineering Calculator LubeSelect for SKF greases Heater Selection Tool skf.com/mount
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