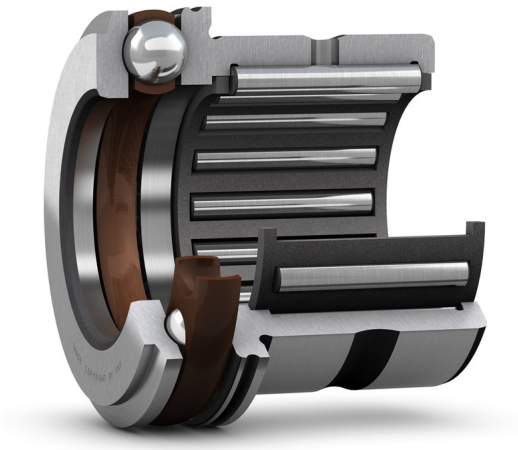


# NKX 17Combined needle roller / thrust ball bearing

## Combined needle roller / thrust ball bearing

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.

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

## Overview

### Dimensions

| | |
|---|---|
| Bore diameter | 17 mm |
| Outside diameter | 26 mm |
| Width | 25 mm |

### Performance

| | |
|---|---|
| Reference speed | 8 500 r/min |
| Limiting speed | 12 000 r/min |

### Properties

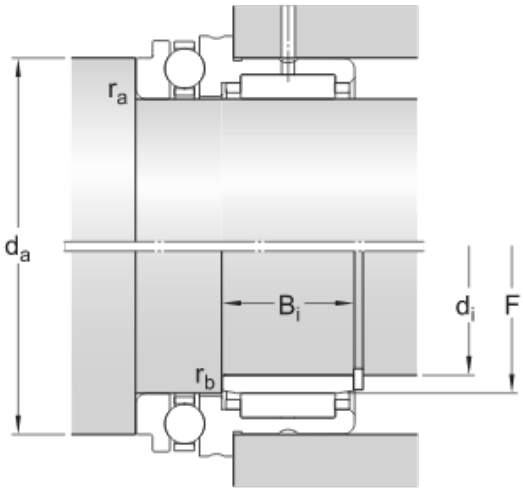
| | |
|---|---|
| Rolling bearing type | Needle roller / thrust ball bearing |
| Bearing part | Radial part without inner ring |
| Thrust part | With cage |
| Radial part | With cage |
| Rolling element (thrust part) | Balls |
| Axial load capability | Single-direction |
| Tolerance class | Other |
| Material, bearing | Bearing steel |
| Coating | Without |
| Lubricant (thrust part) | None |

# Technical Specification

NOT FOUND

## 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 |
| $D_1$ | 30.1 mm | Diameter of flange |
| $r_{1,2}$ | 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 | 12 000 r/min |

## Mass

| | |
|---|---|
| Mass | 0.053 kg |

## Associated products

| | |
|---|---|
| Inner ring | IR 14x17x17 |

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