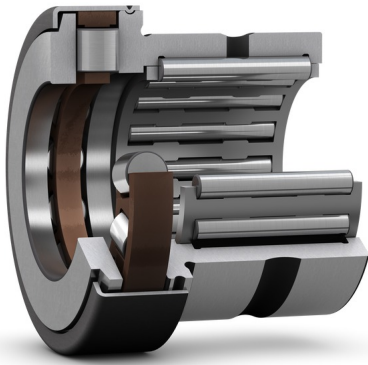


# NKXR 50 ZCombined needle roller / cylindrical roller thrust bearing with a cover



Combined needle roller / cylindrical roller thrust bearing with a cover

These bearings consist of a radial needle roller bearing combined with a cylindrical roller thrust bearing. Together they can accommodate both radial loads and axial loads in one direction. 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
- Low cross section
- Non-separable design

## Overview

### Dimensions

Bore diameter	50 mm
Outside diameter	62 mm
Width	35 mm

### Performance

Reference speed	2 200 r/min
Limiting speed	4 300 r/min

### Properties

Bearing part	Radial part without inner ring
Thrust part	With cage
Radial part	With cage
Axial load capability	Single-direction
Rolling element (thrust part)	Rollers
Tolerance class	Other
Material,	Bearing steel

bearing

Coating

Without

Special  
feature

Thrust part with stamped steel cover  
without lubrication holes

Lubricant  
(thrust  
part)

Grease

# Technical Specification

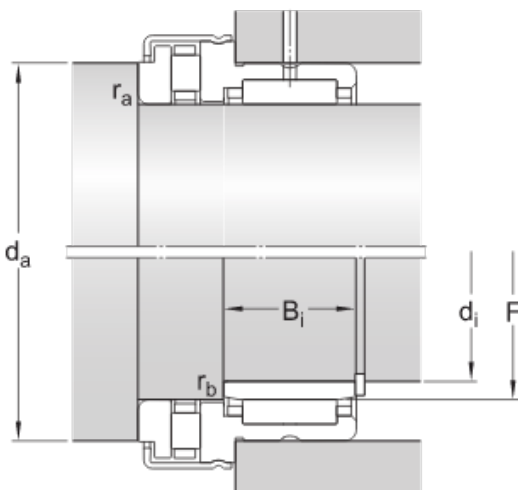


## Dimensions

$F_w$	50 mm	Diameter under rollers
$D$	62 mm	Outside diameter
$C$	35 mm	Width
$C_1$	14 mm	Width of thrust part
$C_1$	10 mm	Distance side face to lubrication hole
$d$	50 mm	Bore diameter of thrust part
$D_2$	71.5 mm	Diameter of stamped steel cover
$r_{1,2}$	min. 0.6 mm	Chamfer dimension

## Abutment dimensions

$d_a$	min. 65.5 mm	Diameter of shaft abutment
$r_a$	max. 0.6 mm	Radius of fillet
$r_b$	max. 0.6 mm	Radius of fillet
$d_i$	45 mm	Bore diameter of associated inner ring
$F$	50 mm	Diameter of inner ring raceway
$B_i$	25 mm	Width of associated inner ring



## Calculation data

Basic dynamic load rating, radial	$C$	38 kN
Basic static load rating, radial	$C_0$	78 kN
Basic dynamic load rating, axial	$C$	47.5 kN
Basic static load rating, axial	$C_0$	166 kN
Fatigue load limit, radial	$P_u$	9.65 kN
Fatigue load limit, axial	$P_u$	16.6 kN
Minimum axial load factor	$A$	0.0022

Reference speed	2 200 r/min
Limiting speed	4 300 r/min

## Mass

Mass	0.29 kg
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## Associated products

Inner ring	IR 45x50x25
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