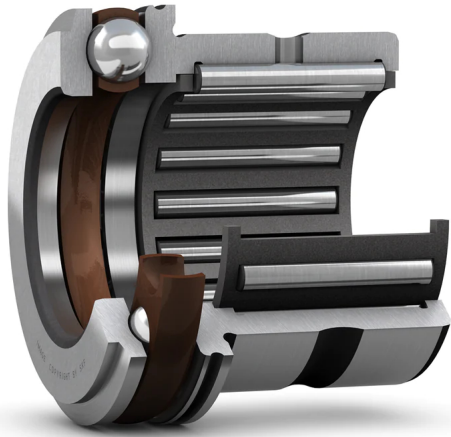


# NKX 25

## 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	0.984 in
Outside diameter	1.457 in
Width	1.181 in

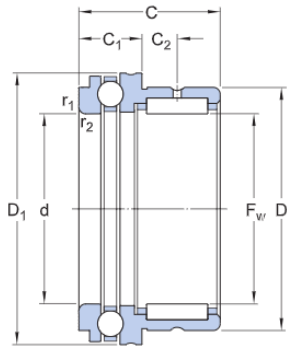
#### Performance

Limiting speed	9 000 r/min
Reference speed	6 300 r/min

#### Properties

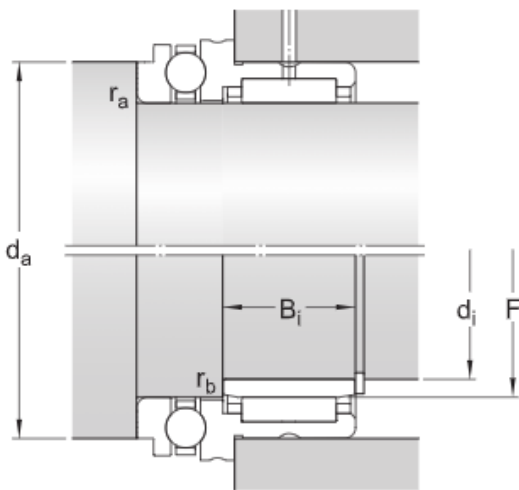
Axial load capability	Single-direction
Bearing part	Radial part without inner ring
Coating	Without
Lubricant (thrust part)	None
Material, bearing	Bearing steel
Radial part	With cage
Rolling bearing type	Needle roller / thrust ball bearing
Rolling element (thrust part)	Balls
Thrust part	With cage
Tolerance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

# Technical Specification



## Dimensions

$F_w$	0.984 in	Diameter under rollers
$D$	1.457 in	Outside diameter
$C$	1.181 in	Width
$C_1$	0.433 in	Width of thrust part
$C_1$	0.374 in	Distance side face to lubrication hole
$d$	0.984 in	Bore diameter of thrust part
$D_1$	1.657 in	Diameter of flange
$r_{1,2}$	min. 0.024 in	Chamfer dimension



## Abutment dimensions

$d_a$	min. 1.484 in	Diameter of shaft abutment
$r_a$	max. 0.024 in	Radius of fillet
$r_b$	max. 0.012 in	Radius of fillet
$d_i$	0.787 in	Bore diameter of associated inner ring
$F$	0.984 in	Diameter of inner ring raceway
$B_i$	0.787 in	Width of associated inner ring

## Calculation data

Basic dynamic load rating, radial	$C$	4 271 lbf
Basic static load rating, radial	$C_0$	7 306 lbf
Basic dynamic load rating, axial	$C$	4 384 lbf
Basic static load rating, axial	$C_0$	9 105 lbf
Fatigue load limit, radial	$P_u$	899 lbf
Fatigue load limit, axial	$P_u$	337 lbf
Minimum axial load factor	$A$	0.0085

Reference speed	6 300 r/min
Limiting speed	9 000 r/min

### Mass

Mass	0.276 lb
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### Associated products

Inner ring	IR 20x25x20
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