



## NKXR 45

### Needle roller / thrust rolling bearings

#### Bearing data

##### [Tolerances,](#)

Normal, ISO - F6 (Fw) + E8 (d), thrust bearing,

##### [Radial internal clearance,](#)

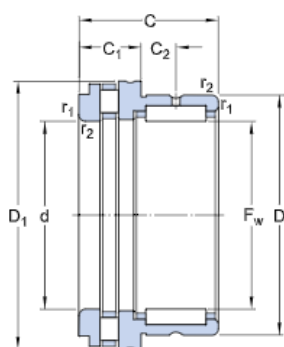
table

#### Design considerations

##### [Shaft and housing tolerances,](#)

table

### Technical specification

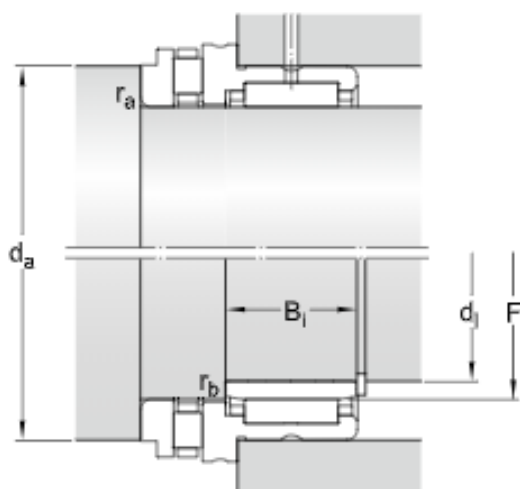


#### DIMENSIONS

$F_w$	45 mm
D	58 mm
C	32 mm
$C_1$	14 mm
$C_2$	9 mm
d	45 mm
$D_1$	65.2 mm
$r_{1,2}$	min. 0.6 mm

#### ABUTMENT DIMENSIONS

$d_a$	min. 60.6 mm
$r_a$	max. 0.6 mm
$r_b$	max. 0.3 mm
$d_i$	40 mm
F	45 mm
$B_i$	20 mm



## CALCULATION DATA

Basic dynamic load rating, radial direction	C	27.5 kN
Basic static load rating, radial direction	C <sub>0</sub>	57 kN
Basic dynamic load rating, axial direction	C	45 kN
Basic static load rating, axial direction	C <sub>0</sub>	153 kN
Fatigue load limit, radial direction	P <sub>u</sub>	7.1 kN
Fatigue load limit, axial direction	P <sub>u</sub>	15.3 kN
Minimum axial load factor	A	0.002
Reference speed		2 200 r/min
Limiting speed		4 500 r/min

## MASS

Mass bearing	0.24 kg
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## ASSOCIATED PRODUCTS

Inner ring	IR 40x45x20
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## More information

## Product details

[Needle roller / angular contact ball bearings](#)[Needle roller / thrust ball bearings](#)[Needle roller / cylindrical roller thrust bearings](#)[Bearing data](#)[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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