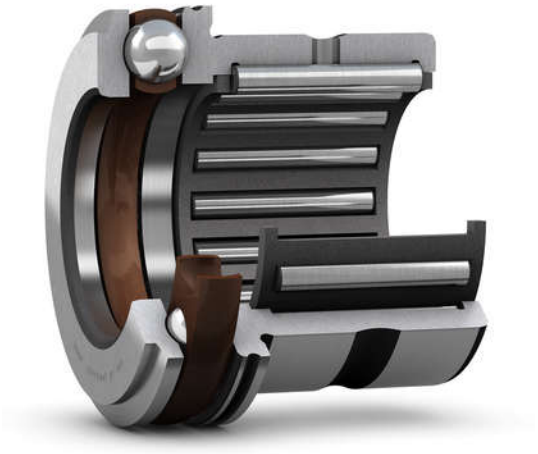


NKX 20

Popular item

Needle roller / thrust rolling bearings

Bearing data

Tolerances,

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

Radial internal clearance,

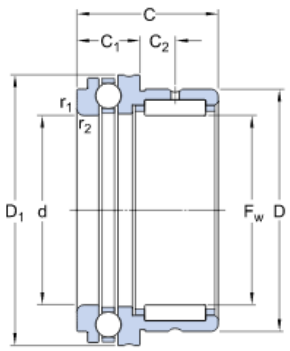
table

Design considerations

Shaft and housing tolerances,

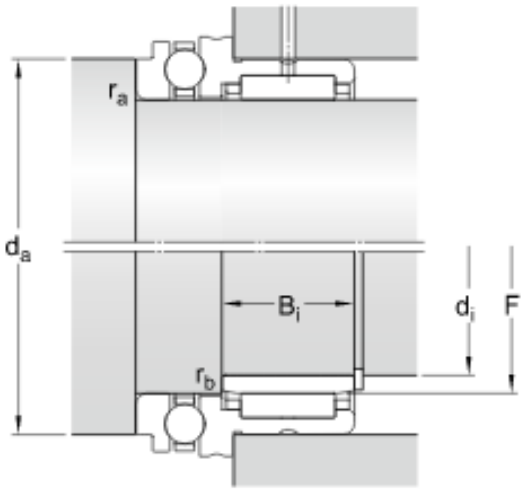
table

Technical specification



DIMENSIONS

F_w	20 mm
D	30 mm
C	30 mm
C_1	10 mm
C_2	10.5 mm
d	20 mm
D_1	35.1 mm
$r_{1,2}$	min. 0.3 mm



ABUTMENT DIMENSIONS

d_a	min. 30.7 mm
r_a	max. 0.3 mm
r_b	max. 0.3 mm
d_i	17 mm
F	20 mm
B_i	20 mm

CALCULATION DATA

Basic dynamic load rating, radial direction	C	16.5 kN
Basic static load rating, radial direction	C_0	25.5 kN
Basic dynamic load rating, axial direction	C	14.3 kN
Basic static load rating, axial direction	C_0	27 kN
Fatigue load limit, radial direction	P_u	3.05 kN
Fatigue load limit, axial direction	P_u	1 kN
Minimum axial load factor	A	0.0038
Reference speed		7500 r/min
Limiting speed		10000 r/min

MASS

Mass bearing	0.083 kg

ASSOCIATED PRODUCTS

Inner ring	IR 17x20x20

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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