



## NKXR 20 Z

Popular item

### Needle roller / thrust rolling bearings

#### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

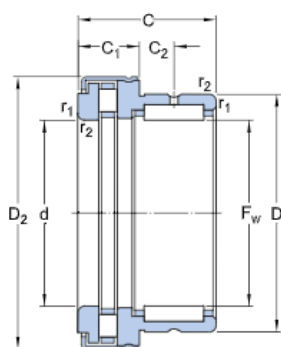
table

#### Design considerations

[Shaft and housing tolerances,](#)

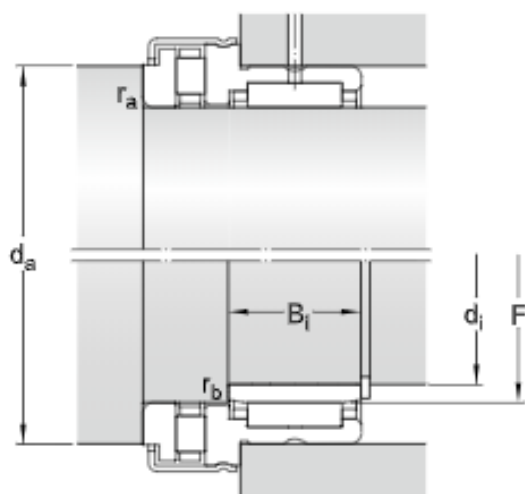
table

### 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       |
| $D_2$     | 36.2 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 <sub>0</sub> | 25.5 kN     |
| Basic dynamic load rating, axial direction  | C              | 18.6 kN     |
| Basic static load rating, axial direction   | C <sub>0</sub> | 48 kN       |
| Fatigue load limit, radial direction        | P <sub>u</sub> | 3.05 kN     |
| Fatigue load limit, axial direction         | P <sub>u</sub> | 4.65 kN     |
| Minimum axial load factor                   | A              | 0           |
| Reference speed                             |                | 3 800 r/min |
| Limiting speed                              |                | 7 500 r/min |

## MASS

|              |          |
|--------------|----------|
| Mass bearing | 0.084 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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