



NKXR 25 Z

Popular item

Needle roller / thrust rolling bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

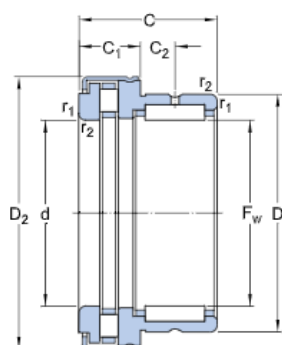
table

Design considerations

[Shaft and housing tolerances,](#)

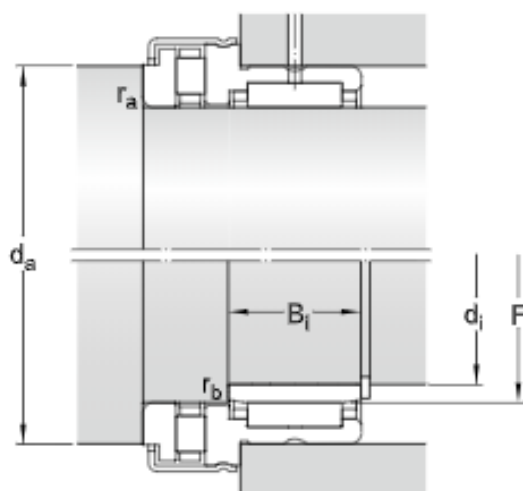
table

Technical specification



DIMENSIONS

| | |
|-----------|-------------|
| F_w | 25 mm |
| D | 37 mm |
| C | 30 mm |
| C_1 | 11 mm |
| C_2 | 9.5 mm |
| d | 25 mm |
| D_2 | 43.2 mm |
| $r_{1,2}$ | min. 0.6 mm |



ABUTMENT DIMENSIONS

| | |
|-------|--------------|
| d_a | min. 37.7 mm |
| r_a | max. 0.6 mm |
| r_b | max. 0.3 mm |
| d_i | 20 mm |
| F | 25 mm |
| B_i | 20 mm |

CALCULATION DATA

| | | |
|---|----------------|-------------|
| Basic dynamic load rating, radial direction | C | 19 kN |
| Basic static load rating, radial direction | C ₀ | 32.5 kN |
| Basic dynamic load rating, axial direction | C | 25 kN |
| Basic static load rating, axial direction | C ₀ | 69.5 kN |
| Fatigue load limit, radial direction | P _u | 4 kN |
| Fatigue load limit, axial direction | P _u | 6.8 kN |
| Minimum axial load factor | A | 0 |
| Reference speed | | 3 200 r/min |
| Limiting speed | | 6 300 r/min |

MASS

| | |
|--------------|---------|
| Mass bearing | 0.13 kg |
|--------------|---------|

ASSOCIATED PRODUCTS

| | |
|------------|-------------|
| Inner ring | IR 20x25x20 |
|------------|-------------|

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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