

NN 3026 KTN9/SPW33



Super-precision double row cylindrical roller bearing with tapered bore and lubrication feature

Super-precision double row cylindrical roller bearings in the NN 30 series provide a unique balance between load carrying capacity, rigidity and speed. Having three flanges on the inner ring and no flanges on the outer ring, the bearings can accommodate axial displacement in both directions. The separable design simplifies mounting and dismounting, particularly when load conditions require both rings to have an interference fit. The tapered bore enables accurate adjustment of clearance or preload during mounting.

- Very high radial load carrying capacity
- High rigidity and high running accuracy
- Minimize noise, vibration and heat generation
- Accommodate axial displacement in both directions
- Lubrication feature

Overview

Dimensions

| | |
|------------------|--------|
| Bore diameter | 130 mm |
| Outside diameter | 200 mm |
| Width | 52 mm |

Performance

| | |
|--|-------------|
| Basic dynamic load rating | 292 kN |
| Basic static load rating | 500 kN |
| Attainable speed for grease lubrication | 4 300 r/min |
| Attainable speed for oil-air lubrication | 4 800 r/min |

Properties

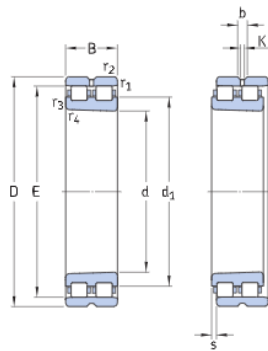
| | |
|-------------------------------|------------------|
| Bearing part | Complete bearing |
| Number of rows | 2 |
| Bore type | Tapered 1:12 |
| Cage | Non-metallic |
| Design | NN |
| Number of flanges, outer ring | 0 |
| Number of flanges, inner ring | 3 |
| Loose flange | None |
| Radial internal clearance | C1 |
| Tolerance class | Class SP (SP) |
| Material, bearing | Bearing steel |

| | |
|-----------------------|--------------------------------------|
| Coating | Without |
| Sealing | Without |
| Lubricant | None |
| Relubrication feature | Annular groove and lubrication holes |

Technical Specification

Bore type

Tapered 1:12

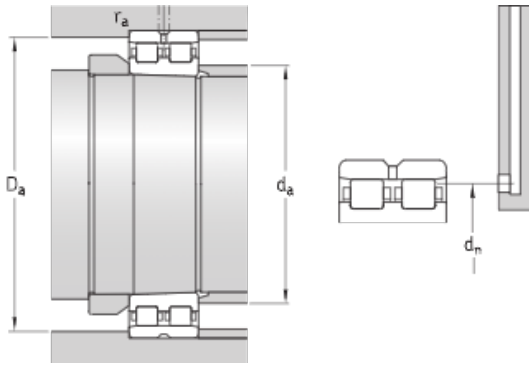


Dimensions

| | | |
|------------------|-------------------|---|
| d | 130 mm | Bore diameter |
| D | 200 mm | Outside diameter |
| B | 52 mm | Width |
| d ₁ | 156.4 mm | Shoulder diameter inner ring (NN design) |
| E | 182 mm | Raceway diameter outer ring (NN design) |
| b | 8.3 mm | Width annular lubrication groove at outer ring |
| K | 4.5 mm | Diameter lubrication hole (outer ring) |
| r _{1,2} | min. 2 mm | Chamfer dimension outer ring |
| r _{3,4} | min. 1.1 mm | Chamfer dimension inner ring (bearing with tapered bore) |
| s | max. 3 mm | Permissible axial displacement from the normal position of one bearing ring relative to the other (all) |

Abutment dimensions

| | | |
|----------------|----------------|---------------------------|
| d _a | min. 140 mm | Abutment diameter shaft |
| D _i | min. 183 mm | Abutment diameter housing |
| D _i | max. 190 mm | Abutment diameter housing |



r_a max. 2 mm

Fillet radius

d_r 179.6 mm

Oil nozzle position (not for variants with TNH A cage)

Calculation data

| | | |
|---|-----------|------------------|
| Basic dynamic load rating | C | 292 kN |
| Basic static load rating | C_0 | 500 kN |
| Fatigue load limit | P_u | 55 kN |
| Attainable speed for grease lubrication | | 4 300 r/min |
| Attainable speed for oil-air lubrication | | 4 800 r/min |
| Reference grease quantity | G_{ref} | 34.1 cm |
| Static radial stiffness (guideline value) | | 2 900 N/ μ m |

Mass

| | |
|--------------|---------|
| Mass bearing | 5.44 kg |
|--------------|---------|

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