

NN 3032 K/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

Dimensions

Bore diameter	160 mm
Outside diameter	240 mm
Width	60 mm

Performance

Overview

Basic dynamic load rating	369 kN
Basic static load rating	655 kN
Attainable speed for grease lubrication	3 600 r/min
Attainable speed for oil-air lubrication	4 000 r/min

Properties

Bearing part	Complete bearing
Number of rows	2
Bore type	Tapered 1:12
Cage	Machined metal
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



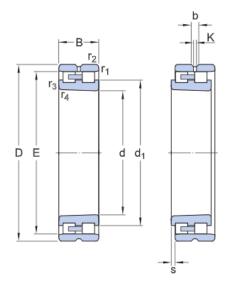
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Annular groove and lubrication holes



Tapered 1:12

Technical Specification

Bore type



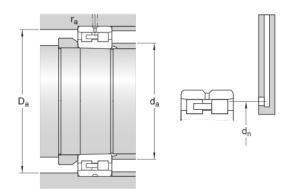
Dimensions

d	160 mm	Bore diameter
D	240 mm	Outside diameter
В	60 mm	Width
d ₁	190 mm	Shoulder diameter inner ring (NN design)
E	219 mm	Raceway diameter outer ring (NN design)
b	8.5 mm	Width annular lubrication groove at outer ring
К	4.5 mm	Diameter lubrication hole (outer ring)
r _{1,2}	min. 2.1 mm	Chamfer dimension outer ring
r _{3,4}	min. 1.1 mm	Chamfer dimension inner ring (bearing with tapered bore)
S	max. 2.5 mm	Permissible axial displacement from the normal position of one bearing ring relative to the other (all)

Abutment dimensions

d _a min. 171 mm	Abutment diameter shaft
D _i min. 221 mm	Abutment diameter housing
D _{; max.} 229 mm	Abutment diameter housing





^r _a max. 2 mm	Fillet radius
^d _r 214.4 mm	Oil nozzle position (not for variants with TNHA cage)

Calculation data

Basic dynamic load rating	С	369 kN
Basic static load rating	C ₀	655 kN
Fatigue load limit	P _u	69.5 kN
Attainable speed for grease lubrication		3 600 r/min
Attainable speed for oil-air lubrication		4 000 r/min
Reference grease quantity	G_{ref}	78 cm
Static radial stiffness (guideline value)		3 540 N/μm

Mass

Mass bearing	9.05 kg
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