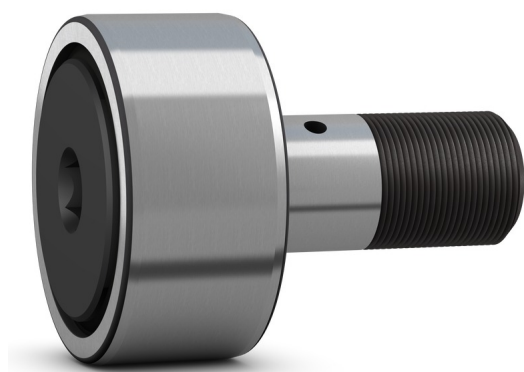


KR 90 PPCam follower (stud-type track roller) with integral sealing and relubrication feature



Cam follower (stud-type track roller) with integral sealing and relubrication feature

Cam followers (stud-type track rollers) are designed to run on all types of tracks and to be used in cam drives, conveyor systems, etc. They are based on a needle roller bearing with a threaded solid stud instead of an inner ring. They have a thick-walled outer ring with a crowned running surface and are supplied sealed and ready-to-mount. The bearings can be relubricated via the stud.

- High radial load carrying capacity
- Accommodate axial loads due to skew or tilting
- Long service life
- Easy to mount
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Functional outside diameter	90 mm
Stud diameter	30 mm
Length	100 mm
Width, outer ring	35 mm

Performance

Basic dynamic load rating	38 kN
Basic static load rating	76.5 kN
Limiting speed	1 800 r/min

Properties

Rolling elements	Needle rollers
Number of rows	1
Outer ring profile	Crowned
Stud alignment	Centric
Number of flanges, outer ring	2
Feature for tightening	Hexagonal recess

Cage	With
Radial internal clearance	Between C2 and CN
Tolerance class	Other
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature	Centre of each stud end and radial hole in stud shank

Technical Specification



Dimensions

D	90 mm	Outside diameter
d	30 mm	Attachment diameter
B	100 mm	Total length
C	35 mm	Width outer ring
B ₁	63 mm	Length shank on stud
B ₂	15 mm	Distance lubrication hole to flange ring
C ₁	1 mm	Distance face outer ring to face side washer
d ₁	50.9 mm	Outside diameter flange ring
G	M30x1.5	Thread stud
G ₁	32 mm	Length thread
M	6 mm	Seat diameter for lubrication accessories
M ₁	4 mm	Diameter of lubrication hole (shank)
SW	14 mm	Width across flats

Calculation data

Basic dynamic load rating	C	38 kN
Basic static load rating	C ₀	76.5 kN
Fatigue load limit	P _u	9.5 kN
Maximum dynamic radial loads	F _r	max. 156 kN
Maximum static radial loads	F _{0r}	max. 224 kN
Limiting speed		1 800 r/min

Mass

Mass cam follower	2.21 kg
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Mounting information

Recommended tightening torque	450 N·m
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Included products

Grease fitting	NIP B2x8
Hexagonal nut	M 30x1.5

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