

KR 30 XCam follower (stud-type track roller) with relubrication feature



Cam follower (stud-type track roller) with 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 cylindrical running surface and are supplied ready-to-mount. A narrow gap between the outer ring and the adjacent components forms a gap-type seal. 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	30 mm
Stud diameter	12 mm
Length	40.2 mm
Width, outer ring	14 mm

Performance

Basic dynamic load rating	6.16 kN
Basic static load rating	8 kN
Limiting speed	4 500 r/min

Properties

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

tightening

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	Gap-type
Lubricant	Grease
Relubrication feature	Centre of each stud end and radial hole in stud shank

Technical Specification



Dimensions

D	30 mm	Outside diameter
d	12 mm	Attachment diameter
B	40.2 mm	Total length
C	14 mm	Width outer ring
B ₁	25 mm	Length shank on stud
B ₂	6 mm	Distance lubrication hole to flange ring
C ₁	0.6 mm	Distance face outer ring to face side washer
d ₁	22.4 mm	Outside diameter flange ring
G	M12x1.5	Thread stud
G ₁	13 mm	Length thread
M	4 mm	Seat diameter for lubrication accessories
M ₁	3 mm	Diameter of lubrication hole (shank)
SW	6 mm	Width across flats
r _{1,2}	min. 0.6 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	6.16 kN
Basic static load rating	C ₀	8 kN
Fatigue load limit	P _u	0.915 kN
Maximum dynamic radial loads	F _r	max. 8.65 kN
Maximum static radial loads	F _{0r}	max. 12.2 kN
Limiting speed		4 500 r/min

Mass

Mass cam follower	0.094 kg
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Mounting information

Recommended tightening torque	22 N·m
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Included products

Grease fitting	NIP B1.5x5
Hexagonal nut	M 12x1.5

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