

KR 47 PPXCam follower (stud-type track roller) with integral sealing and relubrication feature

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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 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	47 mm
Stud diameter	20 mm
Length	66.1 mm
Width, outer ring	24 mm

Performance

Basic dynamic load rating	14.7 kN
Basic static load rating	25 kN
Limiting speed	2 800 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 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	47 mm	Outside diameter
d	20 mm	Attachment diameter
B	66.1 mm	Total length
C	24 mm	Width outer ring
B_1	40.5 mm	Length shank on stud
B_2	9 mm	Distance lubrication hole to flange ring
C_1	0.8 mm	Distance face outer ring to face side washer
d_1	36 mm	Outside diameter flange ring
G	M20x1.5	Thread stud
G_1	21 mm	Length thread
M	6 mm	Seat diameter for lubrication accessories
M_1	4 mm	Diameter of lubrication hole (shank)
SW	10 mm	Width across flats
$r_{1,2}$	min. 1 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	14.7 kN
Basic static load rating	C_0	25 kN
Fatigue load limit	P_u	3 kN
Maximum dynamic radial loads	F_r	max. 22 kN
Maximum static radial loads	F_{0r}	max. 31.5 kN
Limiting speed		2 800 r/min

Mass

Mass cam follower	0.38 kg

Mounting information

Recommended tightening torque	120 N·m

Included products

Grease fitting	NIP B2x8
Hexagonal nut	M 20x1.5

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