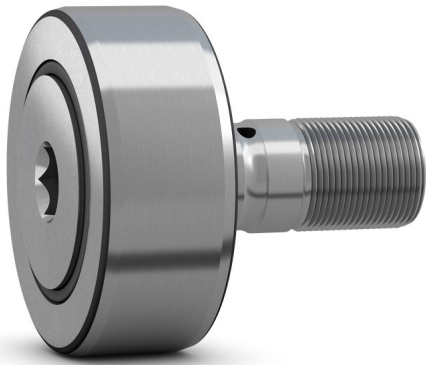


PWKR 47.2RSCam follower (stud-type track roller) with integral sealing and relubrication feature



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 double row full complement cylindrical 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 relatively heavy 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 mm
Width, outer ring	24 mm

Performance

Basic dynamic load rating	22.9 kN
Basic static load rating	24.5 kN
Limiting speed	3 800 r/min

Properties

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

Cage	Without
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 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	27 mm	Outside diameter flange ring
G	M 20x1.5	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	22.9 kN
Basic static load rating	C ₀	24.5 kN
Fatigue load limit	P _u	2.8 kN
Maximum dynamic radial loads	F _r	max. 18.3 kN
Maximum static radial loads	F _{0r}	max. 26 kN
Limiting speed		3 800 r/min

Mass

Mass cam follower	0.38 kg
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Mounting information

Recommended tightening torque	120 N·m
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Included products

Grease fitting	NIP A2x7.5
Hexagonal nut	M 20x1.5

Associated products

Lubrication adapter	AP 10
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