



NUKRE 90 ACam follower (stud-type track roller) with eccentric collar, integral sealing and relubrication feature

Cam follower (stud-type track roller) with eccentric collar, 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. The design includes an eccentric collar pressed onto the stud, and a thick-walled outer ring with a crowned running surface. The bearings are supplied sealed and ready-to-mount, and 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	90 mm
Stud diameter	35 mm
Length	100 mm
Width, outer ring	35 mm

Performance

Basic dynamic load rating	78.1 kN
Basic static load rating	102 kN
Limiting speed	1 900 r/min

Properties

Rolling elements	Cylindrical rollers
Number of rows	2
Outer ring profile	Crowned
Stud alignment	Centric stud with eccentric collar
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	Labyrinth
Lubricant	Grease
Relubrication feature	Centre of each stud end

Technical Specification



Dimensions

D	90 mm	Outside diameter
d	35 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
B ₃	29 mm	Width locking collar
C ₁	1 mm	Distance face outer ring to face side washer
d ₁	47 mm	Outside diameter flange ring
G	M 30x1.5	Thread stud
G ₁	32 mm	Length thread
M	8 mm	Seat diameter for lubrication accessories
M ₁	4 mm	Diameter of lubrication hole (shank)
SW	14 mm	Width across flats
c	1.5 mm	Eccentricity
r _{1,2}	min. 1.1 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	78.1 kN
Basic static load rating	C ₀	102 kN
Fatigue load limit	P _u	12.7 kN
Maximum dynamic radial loads	F _r	max. 86.5 kN
Maximum static radial loads	F _{0r}	max. 125 kN
Limiting speed		1 900 r/min

Mass

Mass cam follower	2.02 kg
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Mounting information

Recommended tightening torque	450 N·m
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Included products

Grease fitting	NIP A3x9.5
Hexagonal nut	M 30x1.5

Associated products

Lubrication adapter	AP 14
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