



Image may differ from product. See technical specification for details.

NUKRE 52 A

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	52 mm
Stud diameter	24 mm
Length	66 mm
Width, outer ring	24 mm

Performance

Basic dynamic load rating	29.7 kN
Basic static load rating	36 kN
Limiting speed	3 200 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

Logistics

Product net weight	0.534 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical drawing of a mechanical assembly in cross-section. The drawing shows a central shaft with a threaded section on the right. The shaft is supported by a housing. The dimensions are labeled as follows:

- B : Total length of the assembly.
- B_1 : Length of the threaded section.
- B_2 : Length of the first section of the shaft.
- B_3 : Length of the second section of the shaft.
- G_1 : Length of the third section of the shaft.
- r_1 : Radius of the first section of the shaft.
- r_2 : Radius of the second section of the shaft.
- D : Outer diameter of the housing.
- M : Diameter of the first section of the shaft.
- M_1 : Diameter of the second section of the shaft.
- c : Thickness of the first section of the shaft.
- G : Length of the threaded section.
- d : Diameter of the threaded section.
- d_1 : Diameter of the first section of the shaft.
- C : Length of the first section of the shaft.
- C_1 : Length of the second section of the shaft.
- SW : Label for the shaft.

D	52 mm	Outside diameter
d	24 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
B ₃	18 mm	Width locking collar
C ₁	0.8 mm	Distance face outer ring to face side washer
d ₁	31 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
c	1 mm	Eccentricity
r _{1,2}	min. 1 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	29.7 kN
Basic static load rating	C ₀	36 kN
Fatigue load limit	P _u	4.25 kN
Maximum dynamic radial loads	F _r	max. 18 kN
Maximum static radial loads	F _{0r}	max. 25.5 kN
Limiting speed		3 200 r/min

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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Tolerances and clearances

GENERAL CAM FOLLOWER SPECIFICATIONS

- [Tolerances: Normal, Other](#)
- [Radial internal clearance: table](#)

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

 Product details Designs and variants Accessories Lubrication General cam follower specifications Loads Temperature limits Speed limits Design considerations Mounting Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Lubrication External sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select Bearing Frequency Calculator SimPro Quick LubeSelect for SKF greases
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