



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

## NUKRE 47 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 | 47 mm |
| Stud diameter               | 24 mm |
| Length                      | 66 mm |
| Width, outer ring           | 24 mm |

## Performance

|                           |             |
|---------------------------|-------------|
| Basic dynamic load rating | 28.6 kN     |
| Basic static load rating  | 33.5 kN     |
| Limiting speed            | 3 800 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 | 0.464 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.
- $c$ : Clearance between the shaft and the housing.
- $G$ : 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                | 47 mm     | Outside diameter                             |
| d                | 24 mm     | Attachment diameter                          |
| B                | 66 mm     | Total length                                 |
| C                | 24 mm     | Width outer ring                             |
| B <sub>1</sub>   | 40.5 mm   | Length shank on stud                         |
| B <sub>2</sub>   | 9 mm      | Distance lubrication hole to flange ring     |
| B <sub>3</sub>   | 18 mm     | Width locking collar                         |
| C <sub>1</sub>   | 0.8 mm    | Distance face outer ring to face side washer |
| d <sub>1</sub>   | 27 mm     | Outside diameter flange ring                 |
| G                | M 20x1.5  | Thread stud                                  |
| G <sub>1</sub>   | 21 mm     | Length thread                                |
| M                | 6 mm      | Seat diameter for lubrication accessories    |
| M <sub>1</sub>   | 4 mm      | Diameter of lubrication hole (shank)         |
| SW               | 10 mm     | Width across flats                           |
| c                | 1 mm      | Eccentricity                                 |
| r <sub>1,2</sub> | min. 1 mm | Chamfer dimension                            |

Calculation data

|                              |                 |              |
|------------------------------|-----------------|--------------|
| Basic dynamic load rating    | C               | 28.6 kN      |
| Basic static load rating     | C <sub>0</sub>  | 33.5 kN      |
| Fatigue load limit           | P <sub>u</sub>  | 3.9 kN       |
| Maximum dynamic radial loads | F <sub>r</sub>  | max. 17.6 kN |
| Maximum static radial loads  | F <sub>0r</sub> | max. 25 kN   |
| Limiting speed               |                 | 3 800 r/min  |

Mounting information

|                               |         |
|-------------------------------|---------|
| Recommended tightening torque | 120 N·m |
|-------------------------------|---------|

Included products

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

Associated products

|                     |       |
|---------------------|-------|
| Lubrication adapter | AP 10 |
|---------------------|-------|

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

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