

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

# NUKRE 90 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 | 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 |

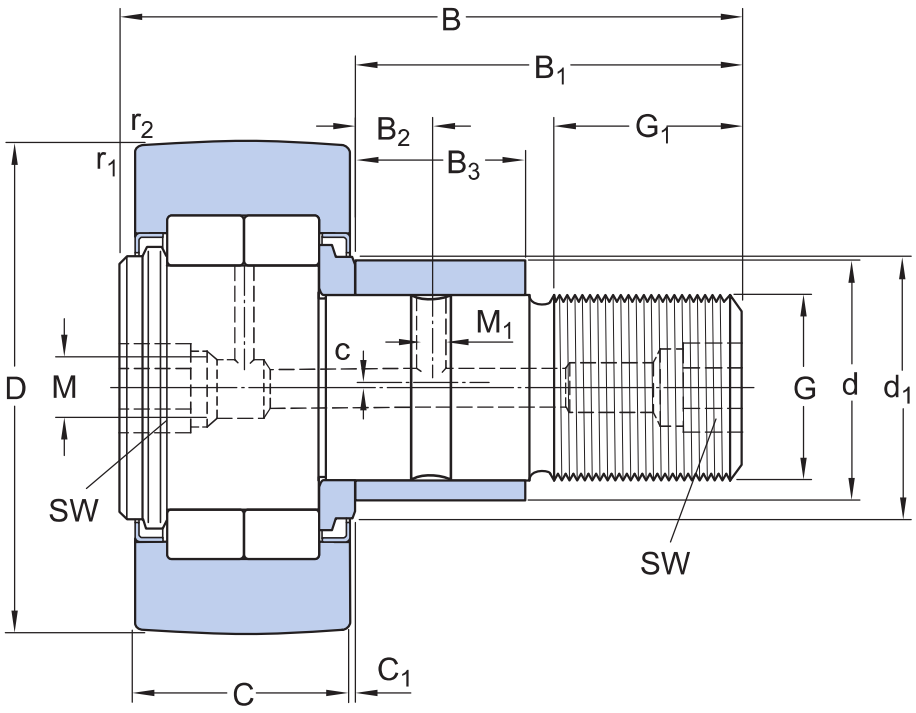
## Properties

| | |
|---|---|
| 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 |

## Logistics

| | |
|---|---|
| Product net weight | 2.23 kg |
| eClass code | 23-05-09-03 |
| UNSPSC code | 31171512 |

## 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 |

## Mounting information

| | |
|---|---|
| Recommended tightening torque | 450 N·m |

## Included products

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

## Associated products

| | |
|---|---|
| Lubrication adapter | AP 14 |

## 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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