

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

KR 19

Cam follower (stud-type track roller) with 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 needle 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 ready-to-mount. A narrow gap between the outer

ring and the adjacent components forms a gap-type seal. The bearings can be relubricated via the stud.

- High radial load carrying capacity
- Accommodate 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	19 mm
Stud diameter	8 mm
Length	32.2 mm
Width, outer ring	11 mm

Performance

Basic dynamic load rating	3.3 kN
Basic static load rating	3.8 kN
Limiting speed	5 600 r/min

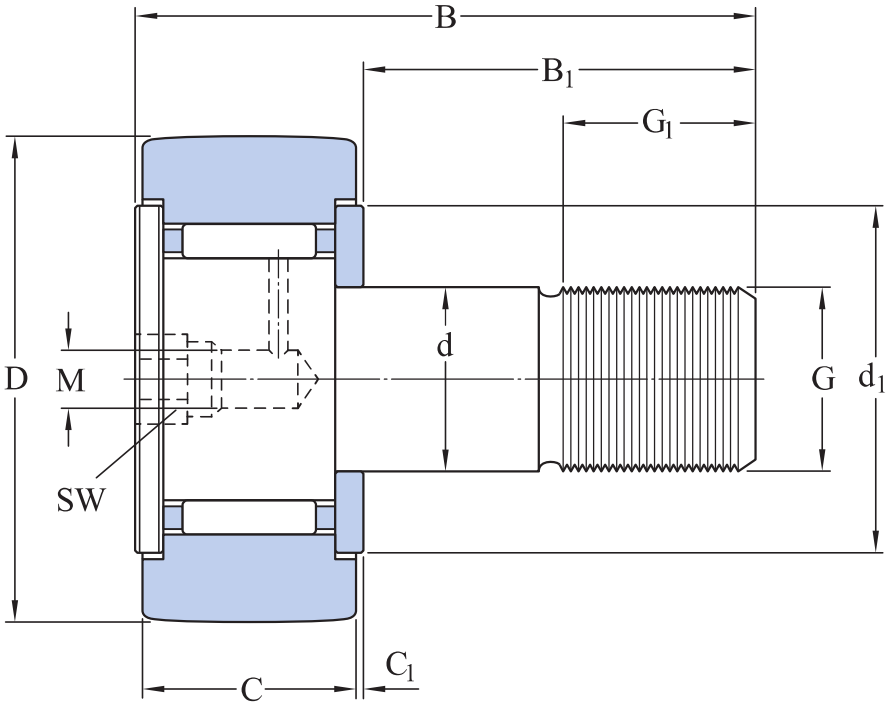
Properties

Rolling elements	Needle rollers
Number of rows	1
Outer ring profile	Crowned
Stud alignment	Centric
Number of flanges, outer ring	2
Feature for tightening	Hexagonal recess
Cage	With
Radial internal clearance	Between C2 and CN
Tolerance class	Other
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Gap-type
Lubricant	Grease
Relubrication feature	Centre of stud head

Logistics

Product net weight	0.0339 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

D	19 mm	Outside diameter
d	8 mm	Attachment diameter
B	32.2 mm	Total length
C	11 mm	Width outer ring
B_1	20 mm	Length shank on stud
C_1	0.6 mm	Distance face outer ring to face side washer
d_1	13.9 mm	Outside diameter flange ring
G	M8x1.25	Thread stud
G_1	10 mm	Length thread
M	3 mm	Seat diameter for lubrication accessories
SW	4 mm	Width across flats

Calculation data

Basic dynamic load rating	C	3.3 kN
Basic static load rating	C_0	3.8 kN
Fatigue load limit	P_u	0.415 kN

Maximum dynamic radial loads	F_r	max. 3.75 kN
Maximum static radial loads	F_{0r}	max. 5.4 kN
Limiting speed		5 600 r/min

Mounting information

Recommended tightening torque	8 N·m

Included products

Grease fitting	NIP C3.2x5.2
Hexagonal nut	M 8x1.25

Associated products

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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