



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

PWKR 90.2RS

Cam follower (stud-type track roller) with 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. They have a

thick-walled outer ring with a crowned running surface and are supplied sealed and ready-to-mount. The bearings 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	30 mm
Length	100 mm
Width, outer ring	35 mm

Performance

Basic dynamic load rating	62.7 kN
Basic static load rating	85 kN
Limiting speed	2 000 r/min

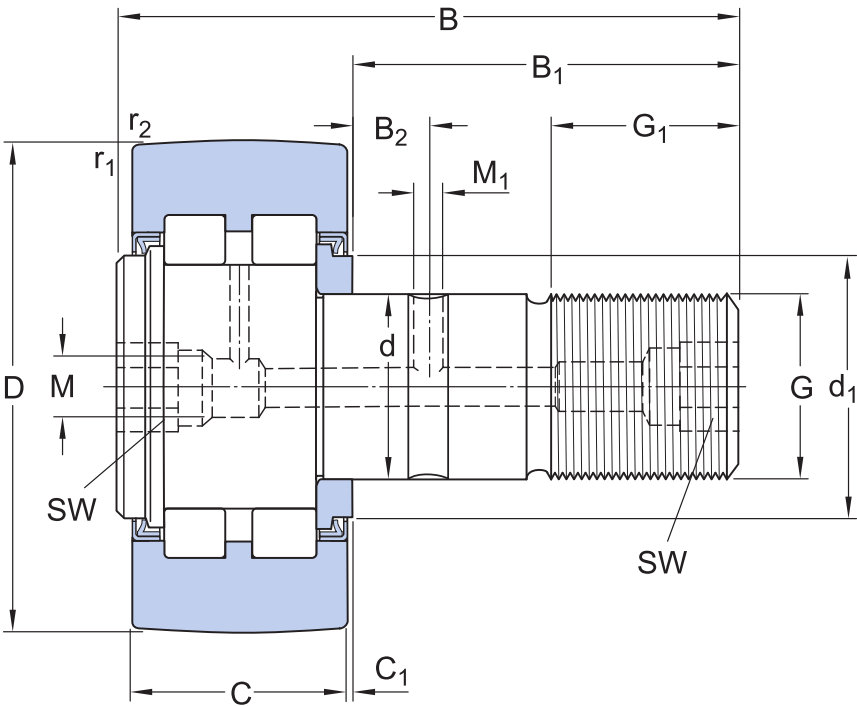
Properties

Rolling elements	Cylindrical rollers
Number of rows	2
Outer ring profile	Crowned
Stud alignment	Centric
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	Contact
Lubricant	Grease
Relubrication feature	Centre of each stud end and radial hole in stud shank

Logistics

Product net weight	2.13 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

D	90 mm	Outside diameter
d	30 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
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
r _{1,2}	min. 1.1 mm	Chamfer dimension

Calculation data

Basic dynamic load rating	C	62.7 kN
Basic static load rating	C ₀	85 kN
Fatigue load limit	P _u	10.8 kN
Maximum dynamic radial loads	F _r	max. 108 kN
Maximum static radial loads	F _{0r}	max. 153 kN
Limiting speed		2 000 r/min

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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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

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