

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

PWKR 80.2RS

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	80 mm
Stud diameter	30 mm
Length	100 mm
Width, outer ring	35 mm

Performance

Basic dynamic load rating	57.2 kN
Basic static load rating	73.5 kN
Limiting speed	2 000 r/min

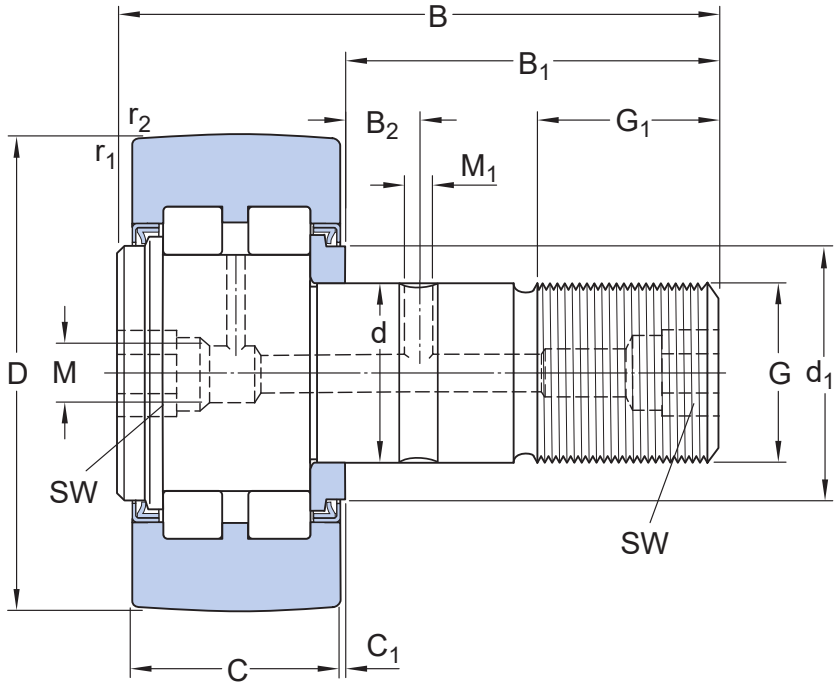
Properties

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	1.79 kg
eClass code	23-05-09-03
UNSPSC code	31171512

Technical specification



Dimensions

D	80 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	57.2 kN
Basic static load rating	C_0	73.5 kN
Fatigue load limit	P_u	9.3 kN

Maximum dynamic radial loads	F_r	max. 64 kN
Maximum static radial loads	F_{0r}	max. 91.5 kN
Limiting speed		2 000 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

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