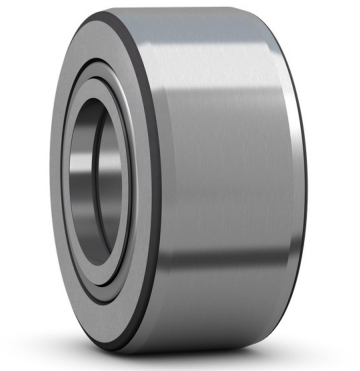

NUTR 4090 XSupport roller (yoke-type track roller) with flange rings, integral sealing and relubrication feature

Support roller (yoke-type track roller) with flange rings, integral sealing and relubrication feature

Support rollers (yoke-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 an inner ring and have a thick-walled outer ring with a cylindrical running surface. They are supplied sealed and ready-to-mount. The inner ring contains a lubrication hole to facilitate relubrication.

- High radial load carrying capacity
- Accommodate relatively heavy axial loads due to skew or tilting
- Long service life
- Ready to mount
- Sealed for increased reliability, with relubrication feature

Overview

Dimensions

Functional outside diameter	90 mm
Bore diameter	40 mm
Width, total	32 mm
Width, outer ring	30 mm

Performance

Basic dynamic load rating	68.2 kN
Basic static load rating	91.5 kN
Limiting speed	1 800 r/min

Properties

Bearing part	Complete track roller
Rolling elements	Cylindrical rollers
Number of rows	2
Outer ring profile	Cylindrical
Axial guidance of outer ring	Yes
Number of flanges, outer ring	2
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	With

Technical Specification



Dimensions

D	90 mm	Outside diameter
d	40 mm	Bore diameter
C	30 mm	Width outer ring
B	32 mm	Width inner ring
d_1	50.5 mm	Outside diameter flange ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension outer ring
$r_{3,4}$	min. 0.6 mm	Chamfer dimension flange ring bore

Calculation data

Basic dynamic load rating	C	68.2 kN
Basic static load rating	C_0	91.5 kN
Fatigue load limit	P_u	11.4 kN
Maximum dynamic radial loads	F_r	max. 63 kN
Maximum static radial loads	F_{0r}	max. 90 kN
Limiting speed		1 800 r/min

Mass

Mass support roller	1.13 kg

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