



# NUTR 50110 A Support 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 an improved crowned 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	110 mm
Bore diameter	50 mm
Width, total	32 mm
Width, outer ring	30 mm

### Performance

Basic dynamic load rating	78.1 kN
Basic static load rating	116 kN
Limiting speed	1 600 r/min

### Properties

Bearing part	Complete track roller
Rolling elements	Cylindrical rollers
Number of rows	2
Outer ring profile	Crowned
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	110 mm	Outside diameter
d	50 mm	Bore diameter
C	30 mm	Width outer ring
B	32 mm	Width inner ring
$d_1$	59.8 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	78.1 kN
Basic static load rating	$C_0$	116 kN
Fatigue load limit	$P_u$	14.3 kN
Maximum dynamic radial loads	$F_r$	max. 98 kN
Maximum static radial loads	$F_{0r}$	max. 140 kN
Limiting speed		1 600 r/min

### Mass

Mass support roller	1.69 kg
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