



NK 42/30

Single row needle roller bearing with machined rings, with flanges, without inner ring

Single row needle roller bearings without an inner ring consist of an outer ring with a needle roller and cage assembly. They are an excellent choice for compact bearing arrangements in applications where hardened and ground raceways can be provided on the shaft. The outer ring includes two integral flanges to guide the bearing axially and an annular groove with one or more lubrication holes to facilitate relubrication.

- High radial load carrying capacity
- High stiffness
- Low cross-sectional height
- Accommodate axial displacement in both directions

Overview

Dimensions

Bore diameter of needle roller complement	42 mm
Outside diameter	52 mm
Width	30 mm

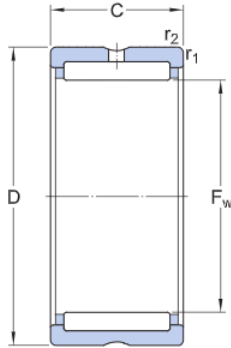
Performance

Basic dynamic load rating	39.1 kN
Basic static load rating	86.5 kN
Limiting speed	11 000 r/min
Reference speed	9 500 r/min

Properties

Aligning feature	Without
Bearing part	Bearing without inner ring
Cage	Sheet steel
Coating	Without
Lubricant	None
Material, bearing	Bearing steel
Number of flanges, outer ring	2
Number of rows	1
Outer ring type	Machined (solid)
Relubrication feature	With
Sealing	Without
Tolerance class	Normal

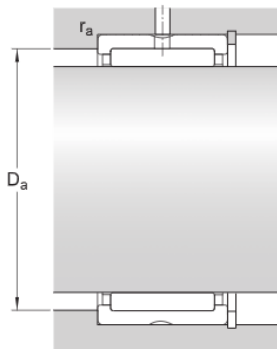
Technical Specification



Dimensions

F_w	42 mm	Diameter under rollers
D	52 mm	Outside diameter
C	30 mm	Width
$r_{1,2}$	min. 0.3 mm	Chamfer dimension outer ring

Abutment dimensions



D_i	max. 50 mm	Abutment diameter housing (with flanges)
r_a	max. 0.3 mm	Fillet radius

Calculation data

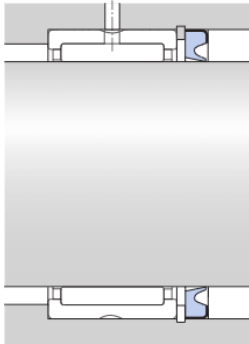
Basic dynamic load rating	C	39.1 kN
Basic static load rating	C_0	86.5 kN
Fatigue load limit	P_u	10.8 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min

Mass

Mass bearing

0.13 kg

Associated seals



G 42x52x4	Radial shaft seal with a low cross-sectional height, single lip
SD 42x52x4	Radial shaft seal with a low cross-sectional height, double lip

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