

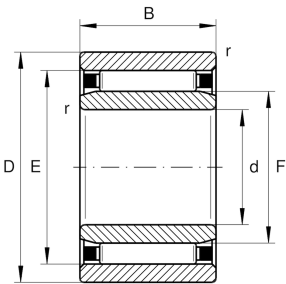
**NAO12X24X13-XL**

Needle roller bearing

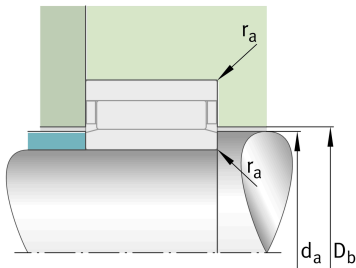
Needle roller bearings NAO, without ribs

X-life

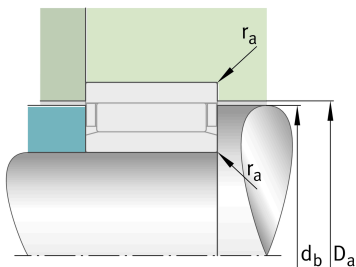
Technical information

**Main Dimensions & Performance Data**

d	12 mm	Bore diameter
D	24 mm	Outside diameter
B	13 mm	Width
C _r	10.100 N	Basic dynamic load rating, radial
C _{0r}	11.800 N	Basic static load rating, radial
C _{ur}	1.930 N	Fatigue load limit, radial
n _G	23.600 1/min	Limiting speed
n _{gr}	15.000 1/min	Reference speed
m	30 g	Weight

**Mounting dimensions**

d _a	15,7 mm	Mounting dimension
D _b	16,4 mm	Shoulder diameter axial guidance NK/housing
d _b	19,6 mm	Shoulder diameter axial guidance NK/shaft
D _a	20,3 mm	Shoulder diameter outer ring
r _{a max}	0,3 mm	Maximum recess radius










Dimensions

F	16 mm	Raceway diameter inner ring
E	20 mm	Raceway diameter outer ring
r _{min}	0,3 mm	Minimum chamfer dimension
s	0,5 mm	Axial displacement

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.

Characteristics

-  Radial load
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Small design envelope