



NK 90/35

- Popular item

Needle roller bearings with machined rings, without an inner ring

Bearing data

[Tolerances,](#)

Normal, P6, P5, ISO - F6 (Fw),

[Radial internal clearance,](#)

table

Design considerations

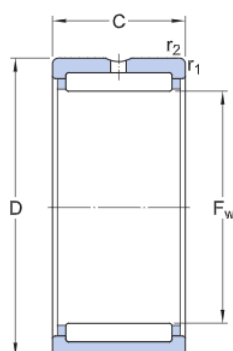
[Housing tolerances,](#)

table,

[Shaft tolerances,](#)

[Operating clearance](#)

Technical specification

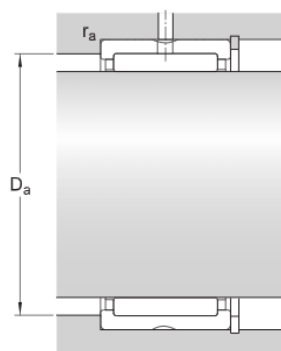


DIMENSIONS

F_w	90 mm	Diameter under rollers
D	110 mm	Outside diameter
C	35 mm	Width
$r_{1,2}$	min.1 mm	Chamfer dimension outer ring

ABUTMENT DIMENSIONS

D_a	max.105 mm	Abutment diameter housing (with flanges)
r_a	max.1 mm	Fillet radius



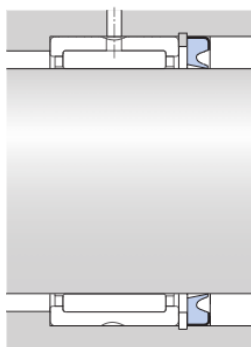
CALCULATION DATA

Basic dynamic load rating	C	101 kN
Basic static load rating	C ₀	216 kN
Fatigue load limit	P _u	28 kN
Reference speed		4 500 r/min
Limiting speed		5 000 r/min

MASS

Mass bearing	0.63 kg
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ASSOCIATED SEALS



Radial shaft seal	90x110x10 HMS5 RG	Radial shaft seal
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