

NJ 1024 ML/C3

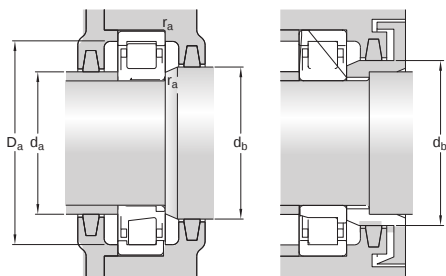
Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.



- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design



Dimensions		
d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	28 mm	Width
d ₁	≈ 141 mm	Shoulder diameter of inner ring
D ₁	≈ 159.7 mm	Shoulder diameter of outer ring
D ₁	≈ 159 mm	Shoulder diameter of outer ring
F	135 mm	Raceway diameter of inner ring
r _{1,2}	min. 2 mm	Chamfer dimension
r _{1,2}	min. 2 mm	Chamfer dimension
r _{3,4}	min. 2 mm	Chamfer dimension
r _{3,4}	min. 1.1 mm	Chamfer dimension
s	max. 3.8 mm	Permissible axial displacement



Abutment dimensions

d_a	min. 129 mm	Diameter of spacer sleeve
d_a	max. 133 mm	Diameter of spacer sleeve
d_b	min. 143 mm	Diameter of shaft abutment
D_a	max. 171 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet
r_a	max. 2 mm	Radius of fillet
r_b	max. 1 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	153 kN
Basic static load rating	C_0	183 kN
Fatigue load limit	P_u	20.8 kN
Reference speed		4 000 r/min
Limiting speed		6 300 r/min
Minimum load factor	k_r	0.15
Limiting value	e	0.2
Calculation factor	Y	0.6

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal ($\circ$), P6, Normal (inch)
- Radial internal clearance: cylindrical bore, tapered bore
- Axial internal clearance: NUP, NJ + HJ

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS