

NU 309 ECML

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 no flanges on the inner ring, NU design bearings can accommodate axial displacement in both directions. 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
- Accommodate axial displacement in both directions
- Separable design



Dimensions		
d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	25 mm	Width
D ₁	≈ 83.75 mm	Shoulder diameter of outer ring
F	58.5 mm	Raceway diameter of inner ring
r _{1,2}	min. 1.5 mm	Chamfer dimension
r _{3,4}	min. 1.5 mm	Chamfer dimension
s	max. 1.7 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 54 mm	Diameter of spacer sleeve
d _a	max. 56 mm	Diameter of spacer sleeve
d _b	min. 60 mm	Diameter of shaft abutment
D _a	max. 91.4 mm	Diameter of housing abutment

r_a	max. 1.5 mm	Radius of fillet
r_b	max. 1.5 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	112 kN
Basic static load rating	C_0	100 kN
Fatigue load limit	P_u	12.9 kN
Reference speed		7 500 r/min
Limiting speed		13 000 r/min
Minimum load factor	k_r	0.23
Limiting value	e	0.2
Calculation factor	Y	0.6

Associated products

Angle ring	HJ 309 EC
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (), 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