

NU 2344 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	220 mm	Bore diameter
D	460 mm	Outside diameter
B	145 mm	Width
D ₁	≈ 391 mm	Shoulder diameter of outer ring
F	277 mm	Raceway diameter of inner ring
r _{1,2}	min. 5 mm	Chamfer dimension
s	max. 10.4 mm	Permissible axial displacement



Abutment dimensions		
da	min. 238 mm	Diameter of spacer sleeve
da	max. 272 mm	Diameter of spacer sleeve
db	min. 272 mm	Diameter of shaft abutment
Da	max. 442 mm	Diameter of housing abutment
ra	max. 4 mm	Radius of fillet

r_a	max. 4 mm	Radius of fillet
r_b	max. 4 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	2 380 kN
Basic static load rating	C_0	3 450 kN
Fatigue load limit	P_u	310 kN
Reference speed		1 300 r/min
Limiting speed		2 600 r/min
Minimum load factor	k_r	0.38
Limiting value	e	0.3
Calculation factor	Y	0.4

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