

NU 1088 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	440 mm	Bore diameter
D	650 mm	Outside diameter
B	94 mm	Width
D ₁	≈ 591 mm	Shoulder diameter of outer ring
F	490 mm	Raceway diameter of inner ring
r _{1,2}	min. 6 mm	Chamfer dimension
s	max. 14.7 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 463 mm	Diameter of spacer sleeve
d _a	max. 488 mm	Diameter of spacer sleeve
d _b	min. 498 mm	Diameter of shaft abutment
D _a	max. 627 mm	Diameter of housing abutment
r _a	max. 5 mm	Radius of fillet

r_a	max. 5 mm	Radius of fillet
r_b	max. 5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	1 980 kN
Basic static load rating	C_0	3 400 kN
Fatigue load limit	P_u	270 kN
Reference speed		1 000 r/min
Limiting speed		1 500 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 (), 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