

NU 3188 ECMA/HB1

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	720 mm	Outside diameter
B	226 mm	Width
D ₁	≈ 637 mm	Shoulder diameter of outer ring
F	509 mm	Raceway diameter of inner ring
r _{1,2}	min. 6 mm	Chamfer dimension
s	max. 12.5 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 466 mm	Diameter of spacer sleeve
d _a	max. 500 mm	Diameter of spacer sleeve
d _b	min. 514 mm	Diameter of shaft abutment
D _a	max. 694 mm	Diameter of housing abutment
r _a	max. 5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	5 120 kN
Basic static load rating	C ₀	10 000 kN
Fatigue load limit	P _u	765 kN
Reference speed		700 r/min
Limiting speed		1 200 r/min
Minimum load factor	k _r	0.21
Limiting value	e	0.3
Calculation factor	Y	0

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