

NU 3184 ECMA

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	420 mm	Bore diameter
D	700 mm	Outside diameter
B	224 mm	Width
D ₁	≈ 613 mm	Shoulder diameter of outer ring
F	485 mm	Raceway diameter of inner ring
r _{1,2}	min. 6 mm	Chamfer dimension
s	max. 14.2 mm	Permissible axial displacement



Abutment dimensions		
d _a	min. 446 mm	Diameter of spacer sleeve
d _a	max. 478 mm	Diameter of spacer sleeve
d _b	min. 490 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	4 950 kN
Basic static load rating	C ₀	9 000 kN
Fatigue load limit	P _u	695 kN
Reference speed		750 r/min
Limiting speed		1 300 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