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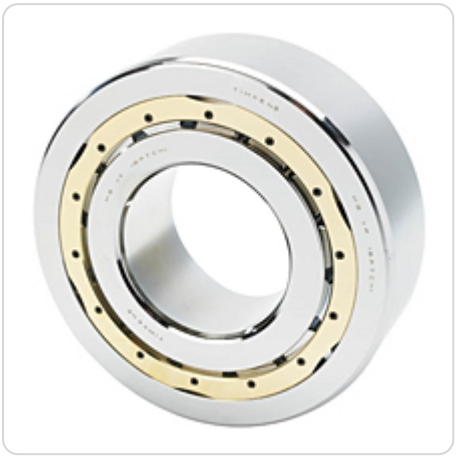
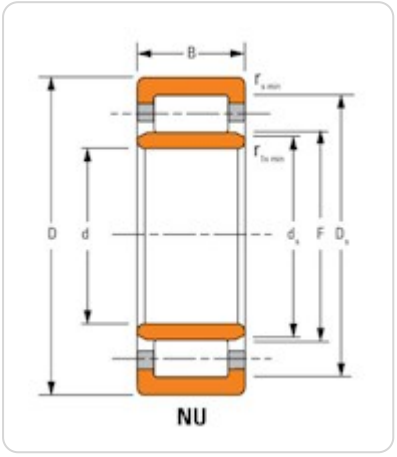
# Part Number NU2220EMA, Cylindrical Roller Radial Bearings - Single Row ISO






## Key Features

- High radial load capacity
- Unique brass cage design for demanding applications
- Bearing can be separated for easier mounting and dismounting

- Design has a cylindrical inner ring and two ribs on the outer ring, making type NU bearings well suited for use as floating bearings
- Enhanced operational reliability
- Long service life

## Key Dimensions

| | |
|---|---|
| **Bore (d)** | 100 mm |
| **O.D. (D)** | 180 mm<br>7.0866 in |
| **Width (B)** | 1.811 in<br>46 mm |
| **Dynamic Radial Load Rating - 1M Revs (C1)[1]** | 377000 N<br>84800 lbf |

## Other Dimensions

| | |
|---|---|
| **Weight** | 5.2 Kg<br>11.5 lb |
| **Shaft Backing Shoulder Diameter** | 115 mm<br>4.5000 in |
| **Max Shaft Fillet Radius LF ID** | 2.0 in<br>0.100 mm |
| **Max Shaft Fillet Radius RF ID** | 2 in<br>0.100 mm |
| **Max Housing Fillet Radius LF OD** | 2 in<br>0.1 mm |
| **Max Housing Fillet Radius RF OD** | 2 in<br>0.1 mm |
| **Design Units** | Metric |
| **Type** | NU |

# Ratings

| | |
|---|---|
| **Static Radial Load Rating (C0)** | 451000 N<br>101000 lbf |
| **Thermal Reference Speed - Grease** | 2800 rpm |
| **Thermal Reference Speed - Oil**[2] | 3200 rpm |

# Factors

| | |
|---|---|
| **Geometry Factor (Cg)** [3] | 0.104 |

[1] Based on 1 x $10^6$ $L_{10}$ life for the ISO life calculation method.

[2] See thermal speed ratings in the engineering section.

[3] Geometry constant for Lubrication Life Adjustment Factor a3l.