

**FAG****NU1080-TB-M1** [↗](#)

Cylindrical roller bearing

Cylindrical roller bearing NU20..-E-XL-M1, with cage, single row, non-locating bearing, 2 ribs on outer ring, 0 ribs on inner ring (smooth), type NU, Running accuracy in P6

Technical information



Your current product variant

| | | |
|---------------------------|--------------|---|
| Design | TB | Bearings with increased axial load capacity |
| Cage | M1 | Two Piece Brass Cage Roller Guided |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Tolerance class | PN | Normal (ISO 492:2023) |
| Number of rows | 1 | Single-row design |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 400 mm | Bore diameter |
| D | 600 mm | Outside diameter |
| B | 90 mm | Width |
| C_r | 1.380.000 N | Basic dynamic load rating, radial |
| C_{0r} | 2.330.000 N | Basic static load rating, radial |
| C_{ur} | 176.000 N | Fatigue load limit, radial |
| n_G | 1.730 1/min | Limiting speed |
| n_{gr} | 980 1/min | Reference speed |
| $\approx m$ | 87,3 kg | Weight |



Mounting dimensions

| | | |
|---------------|--------|--------------------------------------|
| $d_{a \min}$ | 417 mm | Minimum diameter shaft shoulder |
| $d_{a \max}$ | 445 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 455 mm | Minimum shaft shoulder |
| $D_{a \max}$ | 583 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 4 mm | Maximum recess radius |
| $r_{a1 \max}$ | 4 mm | Maximum recess radius |

Dimensions

| | | |
|--------------|--------|---------------------------------|
| r_{\min} | 5 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 5 mm | Minimum chamfer dimension |
| s | 9,5 mm | Axial displacement |
| E | 550 mm | Raceway diameter outer ring |
| F | 450 mm | Raceway diameter inner ring |
| $D_{1 \min}$ | 530 mm | Minimum rib diameter outer ring |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 150 °C | Operating temperature max. |

Characteristics

| | |
|---|--------------------|
|  | Radial load |
|  | Grease Lubrication |
|  | Oil Lubrication |
|  | Not sealed |
|  | Large bearing |