

# KOYO NUP1020 cylindrical roller bearings

The online KOYO NUP1020 cylindrical roller bearings parts store gives you immediate access to a 140x100x20 Size (mm) selection of more than 1.4 million new, used, 140 Bore Diameter (mm) remanufactured.

Size (mm)	140x100x20
Bore Diameter (mm)	140
Outer Diameter (mm)	100
Width (mm)	20
d	100 mm
D	140 mm
B	20 mm
d1	112.4 mm
d2	109 mm
D1	127.51 mm
K	0.5 mm
C1	6.05 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	26.7 mm
da – min.	106 mm
db – min.	103.2 mm
Da – max.	134 mm
Db – max.	136.8 mm
ra – max.	1 mm
rb – max.	0.6 mm

dn	115.4 mm
Basic dynamic load rating – C	39 kN
Basic static load rating – C0	31.5 kN
Fatigue load limit – Pu	1.2 kN
Limiting speed for grease lubrication	13300 r/min
Limiting speed for oil lubrication	20500 mm/min
Ball – Dw	12.7 mm
Ball – z	24
Gref	10 cm <sup>3</sup>
Calculation factor – f0	8.5
Preload class A – GA	208 N
Preload class B – GB	624 N
Preload class C – GC	1250 N
Calculation factor – f	1
Calculation factor – f2A	1
Calculation factor – f2B	1.04
Calculation factor – f2C	1.08
Calculation factor – fHC	1
Preload class A	73 N/micron
Preload class B	116 N/micron
Preload class C	160 N/micron
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm
da min.	106 mm
db min.	103.2 mm
Da max.	134 mm
Db max.	136.8 mm
ra max.	1 mm
rb max.	0.6 mm

Basic dynamic load rating C	39 kN
Basic static load rating C <sub>0</sub>	31.5 kN
Fatigue load limit P <sub>u</sub>	1.2 kN
Attainable speed for grease lubrication	13300 r/min
Attainable speed for oil-air lubrication	20500 r/min
Ball diameter D <sub>w</sub>	12.7 mm
Number of balls z	24
Reference grease quantity G <sub>ref</sub>	10 cm <sup>3</sup>
Preload class A G <sub>A</sub>	208 N
Static axial stiffness, preload class A	73 N/μm
Preload class B G <sub>B</sub>	624 N
Static axial stiffness, preload class B	116 N/μm
Preload class C G <sub>C</sub>	1250 N
Static axial stiffness, preload class C	160 N/μm
Calculation factor f	1.18
Calculation factor f <sub>1</sub>	1
Calculation factor f <sub>2A</sub>	1
Calculation factor f <sub>2B</sub>	1.04
Calculation factor f <sub>2C</sub>	1.08
Calculation factor f <sub>HC</sub>	1
Calculation factor f <sub>0</sub>	8.5
Mass bearing	0.77 kg