

# Timken 320RU30 cylindrical roller bearings

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Size (mm)	20x9x6
Bore Diameter (mm)	20
Outer Diameter (mm)	9
Width (mm)	6
d	9 mm
D	20 mm
B	6 mm
d1	12.5 mm
d2	11.76 mm
D1	16.52 mm
K	0.5 mm
C1	3.65 mm
r1,2 – min.	0.3 mm
r3,4 – min.	0.15 mm
a	5.2 mm
da – min.	11 mm
db – min.	11 mm
Da – max.	18 mm
Db – max.	19.2 mm
ra – max.	0.3 mm
rb – max.	0.15 mm
dn	13.3 mm

Basic dynamic load rating – C	2 kN
Basic static load rating – C0	0.8 kN
Fatigue load limit – Pu	0.034 kN
Limiting speed for grease lubrication	109000 r/min
Limiting speed for oil lubrication	165000 mm/min
Ball – Dw	3.175 mm
Ball – z	11
Gref	0.09 cm <sup>3</sup>
Calculation factor – f0	7.4
Preload class A – GA	11 N
Preload class B – GB	32 N
Preload class C – GC	64 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	10 N/micron
Preload class B	16 N/micron
Preload class C	21 N/micron
r1,2 min.	0.3 mm
r3,4 min.	0.15 mm
da min.	11 mm
db min.	11 mm
Da max.	18 mm
Db max.	19.2 mm
ra max.	0.3 mm
rb max.	0.15 mm
Basic dynamic load rating C	2.03 kN

Basic static load rating $C_0$	0.8 kN
Fatigue load limit $P_u$	0.034 kN
Attainable speed for grease lubrication	109000 r/min
Attainable speed for oil-air lubrication	165000 r/min
Ball diameter $D_w$	3.175 mm
Number of balls $z$	11
Reference grease quantity $G_{ref}$	0.09 cm <sup>3</sup>
Preload class A $G_A$	11 N
Static axial stiffness, preload class A	10 N/ $\mu$ m
Preload class B $G_B$	32 N
Static axial stiffness, preload class B	16 N/ $\mu$ m
Preload class C $G_C$	64 N
Static axial stiffness, preload class C	21 N/ $\mu$ m
Calculation factor $f$	1.03
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.04
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	7.4
Mass bearing	0.008 kg