

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 ³
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 ³
Preload class A G_A	11 N
Static axial stiffness, preload class A	10 N/ μ m
Preload class B G_B	32 N
Static axial stiffness, preload class B	16 N/ μ m
Preload class C G_C	64 N
Static axial stiffness, preload class C	21 N/ μ 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