

# KOYO 3NCN1020K cylindrical roller bearings

Welcome 180x120x28 Size (mm) to the KOYO 3NCN1020K cylindrical roller bearings 180 Bore Diameter (mm) online seller.

Size (mm)	180x120x28
Bore Diameter (mm)	180
Outer Diameter (mm)	120
Width (mm)	28
d	120 mm
D	180 mm
B	28 mm
d1	143.2 mm
d2	140.8 mm
D2	161.9 mm
r1,2 – min.	2 mm
r3,4 – min.	1 mm
a	49.2 mm
da – min.	129 mm
da – max.	142.4 mm
db – min.	129 mm
db – max.	140 mm
Da – max.	171 mm
Db – max.	175.4 mm
ra – max.	2 mm
rb – max.	1 mm
Basic dynamic load rating – C	35.8 kN
Basic static load rating – C0	36.5 kN

Fatigue load limit – Pu	1.3 kN
Limiting speed for grease lubrication	10000 r/min
Ball – Dw	11.112 mm
Ball – z	33
Calculation factor – e	0.68
Calculation factor – Y2	1.41
Calculation factor – Y0	0.76
Calculation factor – X2	0.67
Calculation factor – Y1	0.92
Preload class A – GA	220 N
Preload class B – GB	440 N
Preload class C – GC	1320 N
Calculation factor – f	1.08
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.05
Calculation factor – fHC	1.01
Preload class A	220 N/micron
Preload class B	283 N/micron
Preload class C	424 N/micron
r1,2 min.	2 mm
r3,4 min.	1 mm
da min.	129 mm
da max.	142.4 mm
db min.	129 mm
db max.	140 mm
Da max.	171 mm
Db max.	175.4 mm

ra max.	2 mm
rb max.	1 mm
Basic dynamic load rating C	47.5 kN
Basic static load rating C0	58.5 kN
Fatigue load limit Pu	1.27 kN
Attainable speed for grease lubrication	10000 r/min
Ball diameter Dw	11.112 mm
Number of balls z	33
Preload class A GA	220 N
Static axial stiffness, preload class A	220 N/ $\mu$ m
Preload class B GB	440 N
Static axial stiffness, preload class B	283 N/ $\mu$ m
Preload class C GC	1320 N
Static axial stiffness, preload class C	424 N/ $\mu$ m
Calculation factor f	1.08
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.02
Calculation factor f2C	1.05
Calculation factor fHC	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87
Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76

Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	2.24 kg