

# NKE GRAE20-NPPB deep groove ball bearings

NKE GRAE20-NPPB deep groove ball bearings Deal is your source for OEM and 140 Bore Diameter (mm) accessories. We sell Genuine at discount prices. 140x90x24 Size (mm)

Size (mm)	140x90x24
Bore Diameter (mm)	140
Outer Diameter (mm)	90
Width (mm)	24
d	90 mm
D	140 mm
B	24 mm
d1	105.4 mm
d2	105.4 mm
D1	124.6 mm
b	2.2 mm
C1	13.4 mm
C2	5.2 mm
C3	4.3 mm
r1,2 – min.	1.5 mm
r3,4 – min.	1 mm
a	39 mm
da – min.	97 mm
db – min.	97 mm
Da – max.	133 mm
Db – max.	136 mm
ra – max.	1.5 mm

rb – max.	1 mm
dn	108.7 mm
Basic dynamic load rating – C	74.1 kN
Basic static load rating – C0	72 kN
Fatigue load limit – Pu	2.8 kN
Limiting speed for grease lubrication	10000 r/min
Limiting speed for oil lubrication	16000 mm/min
Ball – Dw	15.875 mm
Ball – z	20
Gref	15 cm <sup>3</sup>
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	460 N
Preload class B – GB	920 N
Preload class C – GC	1840 N
Preload class D – GD	3680 N
Calculation factor – f	1.14
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.02
Calculation factor – f2C	1.05
Calculation factor – f2D	1.08
Calculation factor – fHC	1.02
Preload class A	272 N/micron
Preload class B	356 N/micron
Preload class C	472 N/micron

Preload class D	638 N/micron
r <sub>1,2</sub> min.	1.5 mm
r <sub>3,4</sub> min.	1 mm
d <sub>a</sub> min.	97 mm
d <sub>b</sub> min.	97 mm
D <sub>a</sub> max.	133 mm
D <sub>b</sub> max.	136 mm
r <sub>a</sub> max.	1.5 mm
r <sub>b</sub> max.	1 mm
Basic dynamic load rating C	74.1 kN
Basic static load rating C <sub>0</sub>	72 kN
Fatigue load limit P <sub>u</sub>	2.85 kN
Attainable speed for grease lubrication	10000 r/min
Attainable speed for oil-air lubrication	16000 r/min
Ball diameter D <sub>w</sub>	15.875 mm
Number of balls z	20
Reference grease quantity G <sub>ref</sub>	15 cm <sup>3</sup>
Preload class A G <sub>A</sub>	460 N
Static axial stiffness, preload class A	272 N/μm
Preload class B G <sub>B</sub>	920 N
Static axial stiffness, preload class B	356 N/μm
Preload class C G <sub>C</sub>	1840 N
Static axial stiffness, preload class C	472 N/μm
Preload class D G <sub>D</sub>	3680 N
Static axial stiffness, preload class D	638 N/μm
Calculation factor f	1.14
Calculation factor f <sub>1</sub>	0.99
Calculation factor f <sub>2A</sub>	1
Calculation factor f <sub>2B</sub>	1.02

Calculation factor f2C	1.05
Calculation factor f2D	1.08
Calculation factor fHC	1.02
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	1.01 kg