

# Loyal CRBH 7013 A Crossed roller bearing

High 90x50x20 Size (mm) 50 Outer Diameter (mm) Quality Loyal CRBH 7013 A Crossed roller bearing. Competitive Pricing. Accept Small Order. Easy 90 Bore Diameter (mm) and Fast Shipping.

Size (mm)	90x50x20
Bore Diameter (mm)	90
Outer Diameter (mm)	50
Width (mm)	20
d	50 mm
D	90 mm
B	20 mm
d1	62.3 mm
d2	62.3 mm
D2	80.7 mm
r1,2 – min.	1.1 mm
r3,4 – min.	0.6 mm
a	26.4 mm
da – min.	57 mm
da – max.	61.5 mm
db – min.	57 mm
db – max.	61.5 mm
Da – max.	83 mm
Db – max.	85.8 mm
ra – max.	1 mm
rb – max.	0.6 mm

Basic dynamic load rating – C	42.3 kN
Basic static load rating – C0	32.5 kN
Fatigue load limit – Pu	1.4 kN
Limiting speed for grease lubrication	14000 r/min
Ball – Dw	12.7 mm
Ball – z	15
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	265 N
Preload class B – GB	530 N
Preload class C – GC	1060 N
Preload class D – GD	2120 N
Calculation factor – f	1.08
Calculation factor – f1	0.99
Calculation factor – f2A	1
Calculation factor – f2B	1.01
Calculation factor – f2C	1.02
Calculation factor – f2D	1.05
Calculation factor – fHC	1
Preload class A	154 N/micron
Preload class B	201 N/micron
Preload class C	266 N/micron
Preload class D	359 N/micron
r1,2 min.	1.1 mm
r3,4 min.	0.6 mm
da min.	57 mm

da max.	61.5 mm
db min.	57 mm
db max.	61.5 mm
Da max.	83 mm
Db max.	85.8 mm
ra max.	1 mm
rb max.	0.6 mm
Basic dynamic load rating C	42.3 kN
Basic static load rating C0	32.5 kN
Fatigue load limit Pu	1.37 kN
Attainable speed for grease lubrication	14000 r/min
Ball diameter Dw	12.7 mm
Number of balls z	15
Preload class A GA	265 N
Static axial stiffness, preload class A	154 N/ $\mu$ m
Preload class B GB	530 N
Static axial stiffness, preload class B	201 N/ $\mu$ m
Preload class C GC	1060 N
Static axial stiffness, preload class C	266 N/ $\mu$ m
Preload class D GD	2120 N
Static axial stiffness, preload class D	359 N/ $\mu$ m
Calculation factor f	1.08
Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.01
Calculation factor f2C	1.02
Calculation factor f2D	1.05
Calculation factor fHC	1
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	0.47 kg