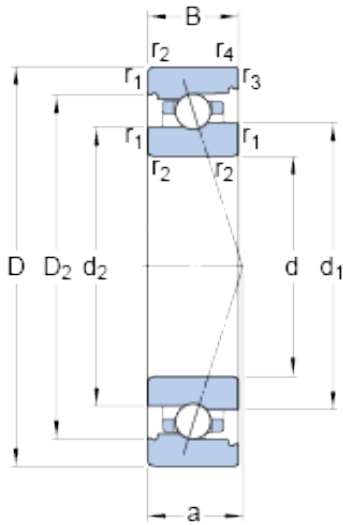




# Qingdao Clunt Bearing Co., Ltd.



7010 CB/HCP4A Bearing 2D drawings and 3D CAD models

50 mm x 80 mm x 16 mm SKF 7010 CB/HCP4A angular contact ball bearings

Bearing No. 7010 CB/HCP4A

Size	80x50x16 mm
Bore Diameter	80 mm
Outer Diameter	50 mm
Width	16 mm
d	50 mm
D	80 mm
B	16 mm
d <sub>1</sub>	61.44 mm
d <sub>2</sub>	59.65 mm
D <sub>2</sub>	70.7 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	16.7 mm
d <sub>a</sub> - min.	54.6 mm
d <sub>b</sub> - min.	54.6 mm
D <sub>a</sub> - max.	75.4 mm
D <sub>b</sub> - max.	76.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	61.8 mm
Basic dynamic load rating - C	10 kN
Basic static load rating - C <sub>0</sub>	7.8 kN
Fatigue load limit - P <sub>u</sub>	0.335 kN
Limiting speed for grease	28000 r/min



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Lubrication	
Limiting speed for oil lubrication	45000 mm/min
Ball - $D_w$	5.556 mm
Ball - $z$	27
$G_{ref}$	3.11 cm <sup>3</sup>
Calculation factor - $f_0$	9.7
Preload class A - $G_A$	33 N
Preload class B - $G_B$	66 N
Preload class C - $G_C$	200 N
Calculation factor - $f$	1.06
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Preload class A	37 N/micron
Preload class B	48 N/micron
Preload class C	76 N/micron
$d_1$	61.44 mm
$d_2$	59.65 mm
$D_2$	70.7 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	54.6 mm
$d_b$ min.	54.6 mm
$D_a$ max.	75.4 mm
$D_b$ max.	76.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	61.8 mm



## Qingdao Clunt Bearing Co., Ltd.

Basic dynamic load rating C	13.5 kN
Basic static load rating $C_0$	13.2 kN
Fatigue load limit $P_u$	0.335 kN
Attainable speed for grease lubrication	28000 r/min
Attainable speed for oil-air lubrication	45000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	27
Reference grease quantity $G_{ref}$	3.11 cm <sup>3</sup>
Preload class A $G_A$	33 N
Static axial stiffness, preload class A	37 N/ $\mu$ m
Preload class B $G_B$	66 N
Static axial stiffness, preload class B	48 N/ $\mu$ m
Preload class C $G_C$	200 N
Static axial stiffness, preload class C	76 N/ $\mu$ m
Calculation factor f	1.06
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	9.7
Mass bearing	0.28 kg