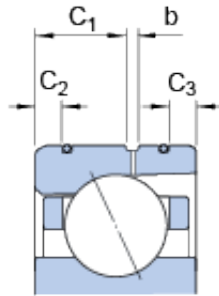
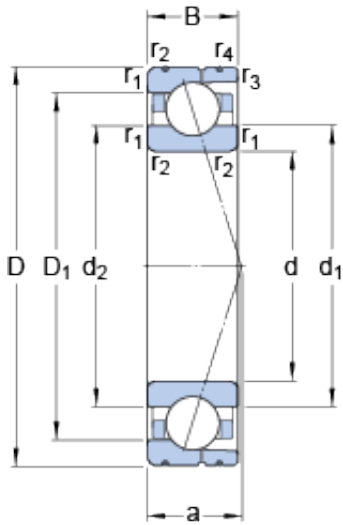




# Bearing equipment manufacturing Co., Ltd



## 65 mm x 100 mm x 18 mm SKF 7013 CD/HCP4AL angular contact ball bearings

Bearing No. 7013 CD/HCP4AL

7013 CD/HCP4AL Bearing 2D drawings and 3D CAD models

Size	100x65x18 mm
Bore Diameter	100 mm
Outer Diameter	65 mm
Width	18 mm
d	65 mm
D	100 mm
B	18 mm
d <sub>1</sub>	75.8 mm
d <sub>2</sub>	75.8 mm
D <sub>1</sub>	89.2 mm
b	1.9 mm
C <sub>1</sub>	9.7 mm
C <sub>2</sub>	4.3 mm
C <sub>3</sub>	3.8 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	20.1 mm
d <sub>a</sub> - min.	71 mm
d <sub>b</sub> - min.	71 mm
D <sub>a</sub> - max.	94 mm
D <sub>b</sub> - max.	96.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	78.1 mm



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Basic dynamic load rating - C	41.6 kN
Basic static load rating - C <sub>0</sub>	37.5 kN
Fatigue load limit - P <sub>u</sub>	1.6 kN
Limiting speed for grease lubrication	16000 r/min
Limiting speed for oil lubrication	24000 mm/min
Ball - D <sub>w</sub>	11.112 mm
Ball - z	20
G <sub>ref</sub>	5.7 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	15.6
Preload class A - G <sub>A</sub>	160 N
Preload class B - G <sub>B</sub>	320 N
Preload class C - G <sub>C</sub>	640 N
Preload class D - G <sub>D</sub>	1280 N
Calculation factor - f	1.13
Calculation factor - f	1
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.02
Calculation factor - f <sub>2C</sub>	1.05
Calculation factor - f <sub>2D</sub>	1.09
Calculation factor - f <sub>HC</sub>	1.02
Preload class A	82 N/micron
Preload class B	112 N/micron
Preload class C	158 N/micron
Preload class D	230 N/micron
d <sub>1</sub>	75.8 mm
d <sub>2</sub>	75.8 mm
D <sub>1</sub>	89.2 mm
C <sub>1</sub>	9.7 mm



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$C_2$	4.3 mm
$C_3$	3.8 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	71 mm
$d_b$ min.	71 mm
$D_a$ max.	94 mm
$D_b$ max.	96.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	78.1 mm
Basic dynamic load rating C	41.6 kN
Basic static load rating $C_0$	37.5 kN
Fatigue load limit $P_u$	1.6 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter $D_w$	11.112 mm
Number of balls z	20
Reference grease quantity $G_{ref}$	5.7 cm <sup>3</sup>
Preload class A $G_A$	160 N
Static axial stiffness, preload class A	82 N/ $\mu$ m
Preload class B $G_B$	320 N
Static axial stiffness, preload class B	112 N/ $\mu$ m
Preload class C $G_C$	640 N
Static axial stiffness, preload class C	158 N/ $\mu$ m
Preload class D $G_D$	1280 N
Static axial stiffness, preload class D	230 N/ $\mu$ m



## Bearing equipment manufacturing Co., Ltd

Calculation factor $f$	1.13
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1.02
Calculation factor $f_0$	15.6
Mass bearing	0.36 kg