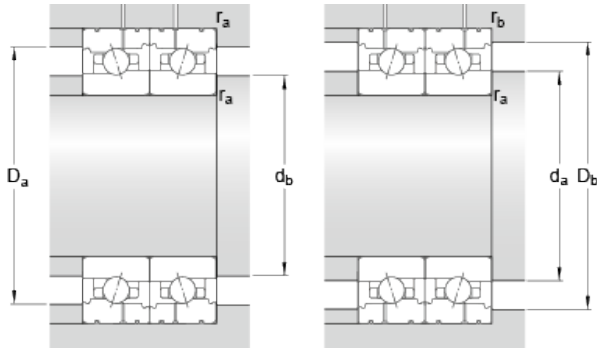




# Jlys Tech Ltd.



## SKF 71914 CB/HCP4AL Angular Contact Ball Bearings, Super-Precision

Bearing No. 71914 CB/HCP4AL

71914 CB/HCP4AL Bearing 2D drawings and 3D CAD models

d	70 mm
D	100 mm
B	16 mm
d <sub>1</sub>	80.94 mm
d <sub>2</sub>	79.55 mm
D <sub>2</sub>	91.66 mm
b	1.5 mm
C <sub>1</sub>	8.6 mm
C <sub>2</sub>	3.8 mm
C <sub>3</sub>	1.7 mm
r <sub>1,2</sub> min.	1 mm
r <sub>3,4</sub> min.	0.3 mm
a	22.2 mm
d <sub>a</sub> min.	74.6 mm
d <sub>b</sub> min.	74.6 mm
D <sub>a</sub> max.	95.4 mm
D <sub>b</sub> max.	98 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.3 mm
d <sub>n</sub>	81.9 mm
Basic dynamic load rating C	18.2 kN
Basic static load rating C <sub>0</sub>	20 kN
Fatigue load limit P <sub>u</sub>	0.52 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air	32000 r/min



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Lubrication	
Ball diameter $D_w$	6.35 mm
Number of balls $z$	32
Reference grease quantity $G_{ref}$	4.49 cm <sup>3</sup>
Preload class A $G_A$	45 N
Static axial stiffness, preload class A	48 N/ $\mu$ m
Preload class B $G_B$	90 N
Static axial stiffness, preload class B	63 N/ $\mu$ m
Preload class C $G_C$	270 N
Static axial stiffness, preload class C	101 N/ $\mu$ m
Calculation factor $f$	1.1
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	9.9
Mass bearing	0.33 kg