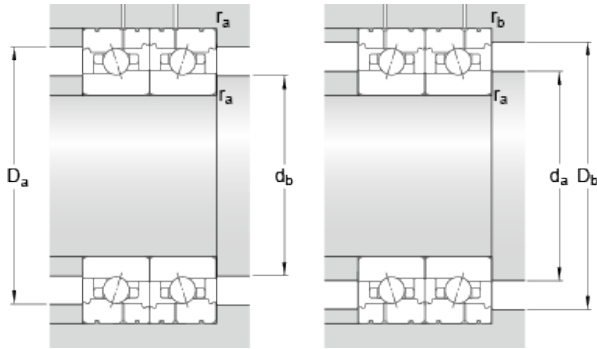




# Jlys Tech Ltd.



## SKF 71920 CB/HCP4AL Angular Contact Ball Bearings, Super-Precision

Bearing No. 71920 CB/HCP4AL

71920 CB/HCP4AL Bearing 2D drawings and 3D CAD models

d	100 mm
D	140 mm
B	20 mm
d <sub>1</sub>	114.92 mm
d <sub>2</sub>	113.16 mm
D <sub>2</sub>	128.7 mm
b	2.2 mm
C <sub>1</sub>	10.9 mm
C <sub>2</sub>	4.5 mm
C <sub>3</sub>	2.9 mm
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
a	28.9 mm
d <sub>a</sub> min.	106 mm
d <sub>b</sub> min.	106 mm
D <sub>a</sub> max.	134 mm
D <sub>b</sub> max.	136.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
d <sub>n</sub>	116.1 mm
Basic dynamic load rating C	29.1 kN
Basic static load rating C <sub>0</sub>	36 kN
Fatigue load limit P <sub>u</sub>	0.865 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air	24000 r/min



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Lubrication	
Ball diameter $D_w$	7.938 mm
Number of balls $z$	37
Reference grease quantity $G_{ref}$	9.96 cm <sup>3</sup>
Preload class A $G_A$	72 N
Static axial stiffness, preload class A	67 N/ $\mu$ m
Preload class B $G_B$	145 N
Static axial stiffness, preload class B	88 N/ $\mu$ m
Preload class C $G_C$	430 N
Static axial stiffness, preload class C	139 N/ $\mu$ m
Calculation factor $f$	1.11
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 $f_0$	10
Mass bearing	0.8 kg