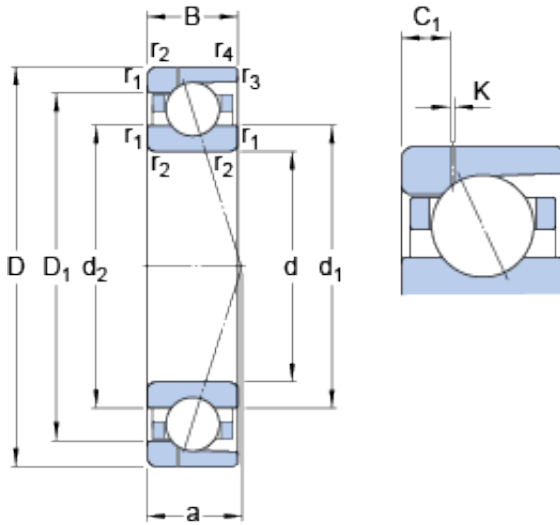




# Guangzhou Wangli Auto Parts Co., Ltd.



## 100 mm x 140 mm x 20 mm SKF 71920 ACD/HCP4AH1 angular contact ball bearings

Bearing No. 71920 ACD/HCP4AH1

71920 ACD/HCP4AH1 Bearing 2D drawings and 3D  
CAD models

Size	140x100x20 mm
Bore Diameter	140 mm
Outer Diameter	100 mm
Width	20 mm
d	100 mm
D	140 mm
B	20 mm
d <sub>1</sub>	112.3 mm
d <sub>2</sub>	112.3 mm
D <sub>1</sub>	127.7 mm
K	0.5 mm
C <sub>1</sub>	5.46 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	38.1 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 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	115.6 mm
Basic dynamic load rating - C	57.2 kN
Basic static load rating - C <sub>0</sub>	63 kN



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Fatigue load limit - $P_u$	2.4 kN
Limiting speed for grease lubrication	9000 r/min
Limiting speed for oil lubrication	15000 mm/min
Ball - $D_w$	12.7 mm
Ball - $z$	26
$G_{ref}$	10.5 cm <sup>3</sup>
Calculation factor - $e$	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	360 N
Preload class B - $G_B$	720 N
Preload class C - $G_C$	1440 N
Preload class D - $G_D$	2880 N
Calculation factor - $f$	1.23
Calculation factor - $f_1$	0.98
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.07
Calculation factor - $f_{2C}$	1.12
Calculation factor - $f_{2D}$	1.17
Calculation factor - $f_{HC}$	1.04
Preload class A	283 N/micron
Preload class B	373 N/micron
Preload class C	498 N/micron



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Preload class D	680 N/micron
$d_1$	112.3 mm
$d_2$	112.3 mm
$D_1$	127.7 mm
$C_1$	5.46 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	106 mm
$d_b$ min.	106 mm
$D_a$ max.	134 mm
$D_b$ max.	136 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	115.6 mm
Basic dynamic load rating C	57.2 kN
Basic static load rating $C_0$	63 kN
Fatigue load limit $P_u$	2.4 kN
Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	15000 r/min
Ball diameter $D_w$	12.7 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	10.5 cm <sup>3</sup>
Preload class A $G_A$	360 N
Static axial stiffness, preload class A	283 N/ $\mu$ m
Preload class B $G_B$	720 N
Static axial stiffness, preload class B	373 N/ $\mu$ m
Preload class C $G_C$	1440 N
Static axial stiffness, preload class C	498 N/ $\mu$ m



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Preload class D $G_D$	2880 N
Static axial stiffness, preload class D	680 N/ $\mu$ m
Calculation factor f	1.23
Calculation factor $f_1$	0.98
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{2D}$	1.17
Calculation factor $f_{HC}$	1.04
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67
Mass bearing	0.67 kg