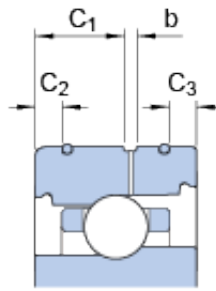
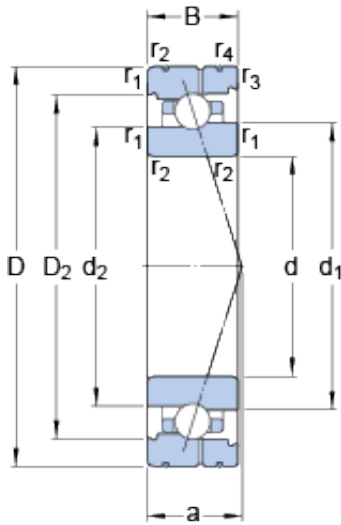




# ASAHI FORGE OF AMERICA BEARING CORP.



100 mm x 140 mm x 20 mm SKF 71920  
ACB/P4AL angular contact ball bearings

Bearing No. 71920 ACB/P4AL

71920 ACB/P4AL 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>	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	41.4 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



## ASAHI FORGE OF AMERICA BEARING CORP.

Basic dynamic load rating - C	20.8 kN
Basic static load rating - C <sub>0</sub>	21.2 kN
Fatigue load limit - P <sub>u</sub>	0.815 kN
Limiting speed for grease lubrication	11000 r/min
Limiting speed for oil lubrication	17000 mm/min
Ball - D <sub>w</sub>	7.938 mm
Ball - z	37
G <sub>ref</sub>	9.96 cm <sup>3</sup>
Calculation factor - e	0.68
Calculation factor - Y <sub>2</sub>	0.87
Calculation factor - Y <sub>0</sub>	0.38
Calculation factor - X <sub>2</sub>	0.41
Calculation factor - Y <sub>1</sub>	0.92
Calculation factor - Y <sub>2</sub>	1.41
Calculation factor - Y <sub>0</sub>	0.76
Calculation factor - X <sub>2</sub>	0.67
Preload class A - G <sub>A</sub>	125 N
Preload class B - G <sub>B</sub>	250 N
Preload class C - G <sub>C</sub>	750 N
Calculation factor - f	1.11
Calculation factor - f <sub>1</sub>	0.99
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.02
Calculation factor - f <sub>2C</sub>	1.07
Calculation factor - f <sub>HC</sub>	1
Preload class A	157 N/micron
Preload class B	202 N/micron



## ASAHI FORGE OF AMERICA BEARING CORP.

Preload class C	306 N/micron
$d_1$	114.92 mm
$d_2$	113.16 mm
$D_2$	128.7 mm
$C_1$	10.9 mm
$C_2$	4.5 mm
$C_3$	2.9 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.	136.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	116.1 mm
Basic dynamic load rating C	27.6 kN
Basic static load rating $C_0$	33.5 kN
Fatigue load limit $P_u$	0.815 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
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 $G_A$	125 N
Static axial stiffness, preload class A	157 N/ $\mu$ m
Preload class B $G_B$	250 N
Static axial stiffness, preload class B	202 N/ $\mu$ m
Preload class C $G_C$	750 N



## ASAHI FORGE OF AMERICA BEARING CORP.

Static axial stiffness, preload class C	306 N/ $\mu$ m
Calculation factor f	1.11
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.07
Calculation factor $f_{HC}$	1
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	0.85 kg