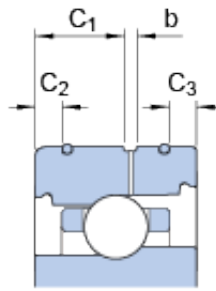
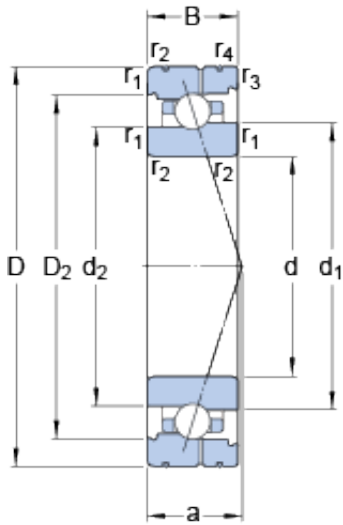




# ASAHI FORGE OF AMERICA BEARING CORP.



90 mm x 125 mm x 18 mm SKF 71918  
ACB/P4AL angular contact ball bearings

Bearing No. 71918 ACB/P4AL

71918 ACB/P4AL Bearing 2D drawings and 3D CAD models

Size	125x90x18 mm
Bore Diameter	125 mm
Outer Diameter	90 mm
Width	18 mm
d	90 mm
D	125 mm
B	18 mm
d <sub>1</sub>	103 mm
d <sub>2</sub>	101.4 mm
D <sub>2</sub>	115 mm
b	2.2 mm
C <sub>1</sub>	9.3 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	39 mm
d <sub>a</sub> - min.	96 mm
d <sub>b</sub> - min.	96 mm
D <sub>a</sub> - max.	119 mm
D <sub>b</sub> - max.	121.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	103.9 mm



## ASAHI FORGE OF AMERICA BEARING CORP.

Basic dynamic load rating - C	16.8 kN
Basic static load rating - C <sub>0</sub>	16.6 kN
Fatigue load limit - P <sub>u</sub>	0.68 kN
Limiting speed for grease lubrication	12000 r/min
Limiting speed for oil lubrication	19000 mm/min
Ball - D <sub>w</sub>	7.144 mm
Ball - z	36
G <sub>ref</sub>	7.37 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>	100 N
Preload class B - G <sub>B</sub>	200 N
Preload class C - G <sub>C</sub>	600 N
Calculation factor - f	1.12
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	139 N/micron
Preload class B	178 N/micron



## ASAHI FORGE OF AMERICA BEARING CORP.

Preload class C	270 N/micron
$d_1$	103 mm
$d_2$	101.4 mm
$D_2$	115 mm
$C_1$	9.3 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.	96 mm
$d_b$ min.	96 mm
$D_a$ max.	119 mm
$D_b$ max.	121.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	103.9 mm
Basic dynamic load rating C	22.5 kN
Basic static load rating $C_0$	26.5 kN
Fatigue load limit $P_u$	0.68 kN
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls z	36
Reference grease quantity $G_{ref}$	7.37 cm <sup>3</sup>
Preload class A $G_A$	100 N
Static axial stiffness, preload class A	139 N/ $\mu$ m
Preload class B $G_B$	200 N
Static axial stiffness, preload class B	178 N/ $\mu$ m
Preload class C $G_C$	600 N



## ASAHI FORGE OF AMERICA BEARING CORP.

Static axial stiffness, preload class C	270 N/ $\mu$ m
Calculation factor f	1.12
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	0.59 kg