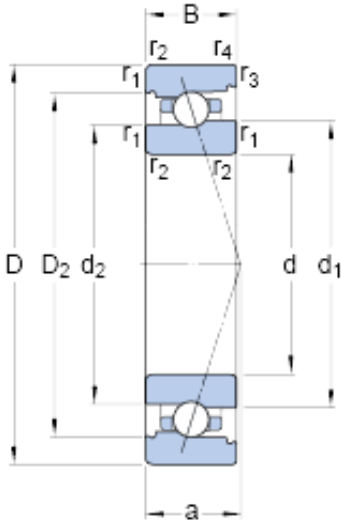




# Zaozhuang Yiding Bearing Co., Ltd.



7022 ACB/P4A Bearing 2D drawings and 3D CAD models

110 mm x 170 mm x 28 mm SKF 7022  
ACB/P4A angular contact ball bearings

Bearing No. 7022 ACB/P4A

Size	170x110x28 mm
Bore Diameter	170 mm
Outer Diameter	110 mm
Width	28 mm
d	110 mm
D	170 mm
B	28 mm
d <sub>1</sub>	133.2 mm
d <sub>2</sub>	130.5 mm
D <sub>2</sub>	151.9 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	46.9 mm
d <sub>a</sub> - min.	119 mm
d <sub>b</sub> - min.	119 mm
D <sub>a</sub> - max.	161 mm
D <sub>b</sub> - max.	165.4 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	134.6 mm
Basic dynamic load rating - C	35.1 kN
Basic static load rating - C <sub>0</sub>	34 kN
Fatigue load limit - P <sub>u</sub>	1.2 kN
Limiting speed for grease	9000 r/min



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Lubrication	
Limiting speed for oil lubrication	14000 mm/min
Ball - $D_w$	11.112 mm
Ball - $z$	31
$G_{ref}$	22.25 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 - $G_A$	210 N
Preload class B - $G_B$	420 N
Preload class C - $G_C$	1260 N
Calculation factor - $f$	1.07
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.04
Calculation factor - $f_{HC}$	1
Preload class A	184 N/micron
Preload class B	236 N/micron
Preload class C	355 N/micron
$d_1$	133.2 mm
$d_2$	130.5 mm
$D_2$	151.9 mm
$r_{1,2}$ min.	2 mm



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$r_{3,4}$ min.	1 mm
$d_a$ min.	119 mm
$d_b$ min.	119 mm
$D_a$ max.	161 mm
$D_b$ max.	165.4 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	134.6 mm
Basic dynamic load rating C	46.8 kN
Basic static load rating $C_0$	56 kN
Fatigue load limit $P_u$	1.22 kN
Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter $D_w$	11.112 mm
Number of balls z	31
Reference grease quantity $G_{ref}$	22.25 cm <sup>3</sup>
Preload class A $G_A$	210 N
Static axial stiffness, preload class A	184 N/ $\mu$ m
Preload class B $G_B$	420 N
Static axial stiffness, preload class B	236 N/ $\mu$ m
Preload class C $G_C$	1260 N
Static axial stiffness, preload class C	355 N/ $\mu$ m
Calculation factor f	1.07
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.04
Calculation factor $f_{HC}$	1



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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	2.19 kg