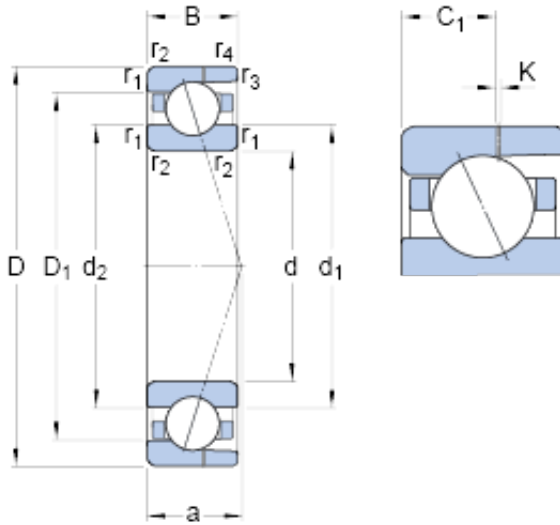




# Zaozhuang Yiding Bearing Co., Ltd.



## 17 mm x 35 mm x 10 mm SKF 7003 ACD/P4AH angular contact ball bearings

Bearing No. 7003 ACD/P4AH

7003 ACD/P4AH Bearing 2D drawings and 3D CAD models

Size	35x17x10 mm
Bore Diameter	35 mm
Outer Diameter	17 mm
Width	10 mm
d	17 mm
D	35 mm
B	10 mm
d <sub>1</sub>	22.6 mm
d <sub>2</sub>	22.6 mm
D <sub>1</sub>	29.3 mm
K	0.5 mm
C <sub>1</sub>	6.05 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	11.2 mm
d <sub>a</sub> - min.	19 mm
d <sub>b</sub> - min.	19 mm
D <sub>a</sub> - max.	33 mm
D <sub>b</sub> - max.	33.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
d <sub>n</sub>	23.7 mm
Basic dynamic load rating - C	6.5 kN
Basic static load rating - C <sub>0</sub>	3.1 kN



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Fatigue load limit - $P_u$	0.132 kN
Limiting speed for grease lubrication	45000 r/min
Limiting speed for oil lubrication	70000 mm/min
Ball - $D_w$	5.556 mm
Ball - $z$	12
$G_{ref}$	0.54 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 - $G_A$	40 N
Preload class B - $G_B$	80 N
Preload class C - $G_C$	160 N
Preload class D - $G_D$	320 N
Calculation factor - $f$	1.04
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.08
Calculation factor - $f_{HC}$	1
Preload class A	48 N/micron
Preload class B	62 N/micron
Preload class C	81 N/micron



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Preload class D	107 N/micron
$d_1$	22.6 mm
$d_2$	22.6 mm
$D_1$	29.3 mm
$C_1$	6.05 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	19 mm
$d_b$ min.	19 mm
$D_a$ max.	33 mm
$D_b$ max.	33.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
$d_n$	23.7 mm
Basic dynamic load rating C	6.5 kN
Basic static load rating $C_0$	3.1 kN
Fatigue load limit $P_u$	0.132 kN
Attainable speed for grease lubrication	45000 r/min
Attainable speed for oil-air lubrication	70000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	12
Reference grease quantity $G_{ref}$	0.54 cm <sup>3</sup>
Preload class A $G_A$	40 N
Static axial stiffness, preload class A	48 N/ $\mu$ m
Preload class B $G_B$	80 N
Static axial stiffness, preload class B	62 N/ $\mu$ m
Preload class C $G_C$	160 N
Static axial stiffness, preload class C	81 N/ $\mu$ m



## Zaozhuang Yiding Bearing Co., Ltd.

Preload class D $G_D$	320 N
Static axial stiffness, preload class D	107 N/ $\mu$ m
Calculation factor f	1.04
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.08
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	0.038 kg