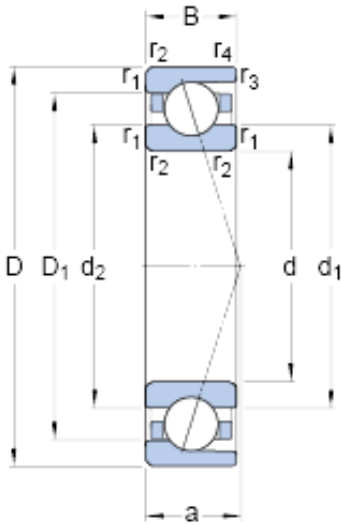




# Zaozhuang Yiding Bearing Co., Ltd.



7201 ACD/HCP4A Bearing 2D drawings and 3D CAD models

## 12 mm x 32 mm x 10 mm SKF 7201 ACD/HCP4A angular contact ball bearings

Bearing No. 7201 ACD/HCP4A

Size	32x12x10 mm
Bore Diameter	32 mm
Outer Diameter	12 mm
Width	10 mm
d	12 mm
D	32 mm
B	10 mm
d <sub>1</sub>	18.6 mm
d <sub>2</sub>	18.6 mm
D <sub>1</sub>	25.4 mm
r <sub>1,2</sub> - min.	0.6 mm
r <sub>3,4</sub> - min.	0.3 mm
a	10.2 mm
d <sub>a</sub> - min.	16.2 mm
d <sub>b</sub> - min.	16.2 mm
D <sub>a</sub> - max.	27.8 mm
D <sub>b</sub> - max.	29.6 mm
r <sub>a</sub> - max.	0.6 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	20 mm
Basic dynamic load rating - C	5.7 kN
Basic static load rating - C <sub>0</sub>	2.4 kN
Fatigue load limit - P <sub>u</sub>	0.104 kN
Limiting speed for grease	56000 r/min



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Lubrication	
Limiting speed for oil lubrication	85000 mm/min
Ball - $D_w$	5.556 mm
Ball - $z$	10
$G_{ref}$	0.507 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 - $G_A$	35 N
Preload class B - $G_B$	70 N
Preload class C - $G_C$	140 N
Preload class D - $G_D$	280 N
Calculation factor - $f$	1.02
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.03
Calculation factor - $f_{2D}$	1.06
Calculation factor - $f_{HC}$	1.01
Preload class A	45 N/micron
Preload class B	58 N/micron
Preload class C	75 N/micron
Preload class D	100 N/micron



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$d_1$	18.6 mm
$d_2$	18.6 mm
$D_1$	25.4 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	16.2 mm
$d_b$ min.	16.2 mm
$D_a$ max.	27.8 mm
$D_b$ max.	29.6 mm
$r_a$ max.	0.6 mm
$r_b$ max.	0.3 mm
$d_n$	20 mm
Basic dynamic load rating C	5.72 kN
Basic static load rating $C_0$	2.45 kN
Fatigue load limit $P_u$	0.104 kN
Attainable speed for grease lubrication	56000 r/min
Attainable speed for oil-air lubrication	85000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	10
Reference grease quantity $G_{ref}$	0.507 cm <sup>3</sup>
Preload class A $G_A$	35 N
Static axial stiffness, preload class A	45 N/ $\mu$ m
Preload class B $G_B$	70 N
Static axial stiffness, preload class B	58 N/ $\mu$ m
Preload class C $G_C$	140 N
Static axial stiffness, preload class C	75 N/ $\mu$ m
Preload class D $G_D$	280 N
Static axial stiffness, preload class D	100 N/ $\mu$ m



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class D	
Calculation factor f	1.02
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.03
Calculation factor $f_{2D}$	1.06
Calculation factor $f_{HC}$	1.01
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	0.033 kg