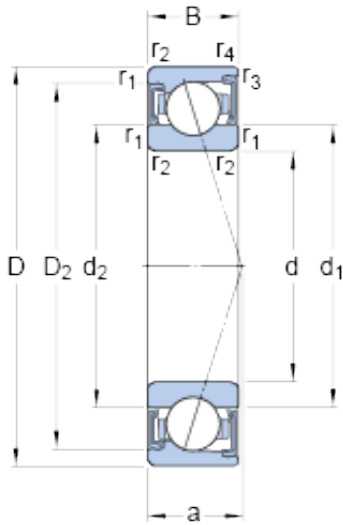




# Changzhou SND bearing Co.,Ltd



S7210 ACD/P4A Bearing 2D drawings and 3D CAD models

50 mm x 90 mm x 20 mm SKF S7210 ACD/P4A angular contact ball bearings

Bearing No. S7210 ACD/P4A

Size	90x50x20 mm
Bore Diameter	90 mm
Outer Diameter	50 mm
Width	20 mm
d	50 mm
D	90 mm
B	20 mm
d <sub>1</sub>	62.3 mm
d <sub>2</sub>	62.3 mm
D <sub>2</sub>	80.7 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	26.4 mm
d <sub>a</sub> - min.	57 mm
d <sub>a</sub> - max.	61.5 mm
d <sub>b</sub> - min.	57 mm
d <sub>b</sub> - max.	61.5 mm
D <sub>a</sub> - max.	83 mm
D <sub>b</sub> - max.	85.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	42.3 kN
Basic static load rating - C <sub>0</sub>	32.5 kN
Fatigue load limit - P <sub>u</sub>	1.4 kN



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Limiting speed for grease lubrication	14000 r/min
Ball - $D_w$	12.7 mm
Ball - z	15
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 - $G_A$	265 N
Preload class B - $G_B$	530 N
Preload class C - $G_C$	1060 N
Preload class D - $G_D$	2120 N
Calculation factor - f	1.08
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.02
Calculation factor - $f_{2D}$	1.05
Calculation factor - $f_{HC}$	1
Preload class A	154 N/micron
Preload class B	201 N/micron
Preload class C	266 N/micron
Preload class D	359 N/micron
$d_1$	62.3 mm
$d_2$	62.3 mm
$D_2$	80.7 mm



## Changzhou SND bearing Co.,Ltd

$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	57 mm
$d_a$ max.	61.5 mm
$d_b$ min.	57 mm
$d_b$ max.	61.5 mm
$D_a$ max.	83 mm
$D_b$ max.	85.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	42.3 kN
Basic static load rating $C_0$	32.5 kN
Fatigue load limit $P_u$	1.37 kN
Attainable speed for grease lubrication	14000 r/min
Ball diameter $D_w$	12.7 mm
Number of balls z	15
Preload class A $G_A$	265 N
Static axial stiffness, preload class A	154 N/ $\mu$ m
Preload class B $G_B$	530 N
Static axial stiffness, preload class B	201 N/ $\mu$ m
Preload class C $G_C$	1060 N
Static axial stiffness, preload class C	266 N/ $\mu$ m
Preload class D $G_D$	2120 N
Static axial stiffness, preload class D	359 N/ $\mu$ m
Calculation factor f	1.08
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.02



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Calculation factor $f_{2D}$	1.05
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	0.47 kg