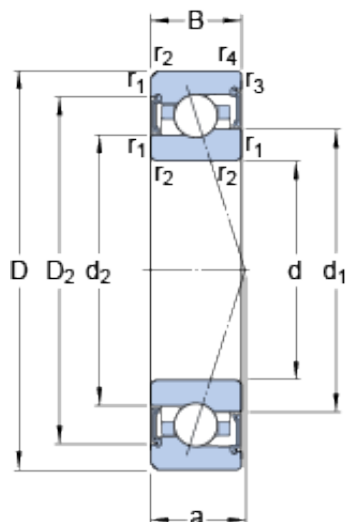




# NSK bearing Trading Co., Ltd



70 mm x 110 mm x 20 mm 70 mm x 110 mm x 20 mm SKF S7014 ACE/HCP4A angular contact ball bearings

Bearing No. S7014 ACE/HCP4A

S7014 ACE/HCP4A Bearing 2D drawings and 3D CAD models

Size	110x70x20 mm
Bore Diameter	110 mm
Outer Diameter	70 mm
Width	20 mm
d	70 mm
D	110 mm
B	20 mm
d <sub>1</sub>	84.3 mm
d <sub>2</sub>	81.6 mm
D <sub>2</sub>	98.6 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	31.2 mm
d <sub>a</sub> - min.	76 mm
d <sub>a</sub> - max.	83.5 mm
d <sub>b</sub> - min.	76 mm
d <sub>b</sub> - max.	80.8 mm
D <sub>a</sub> - max.	104 mm
D <sub>b</sub> - max.	105.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	22.5 kN
Basic static load rating - C <sub>0</sub>	17.3 kN



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Fatigue load limit - $P_u$	0.735 kN
Limiting speed for grease lubrication	18500 r/min
Ball - $D_w$	9.525 mm
Ball - $z$	25
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 - $G_A$	200 N
Preload class B - $G_B$	610 N
Preload class C - $G_C$	1220 N
Calculation factor - $f$	1.09
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.06
Calculation factor - $f_{HC}$	1.01
Preload class A	159 N/micron
Preload class B	238 N/micron
Preload class C	311 N/micron
$d_1$	84.3 mm
$d_2$	81.6 mm
$D_2$	98.6 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm



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$d_a$ min.	76 mm
$d_a$ max.	83.5 mm
$d_b$ min.	76 mm
$d_b$ max.	80.8 mm
$D_a$ max.	104 mm
$D_b$ max.	105.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	22.5 kN
Basic static load rating $C_0$	17.3 kN
Fatigue load limit $P_u$	0.735 kN
Attainable speed for grease lubrication	18500 r/min
Ball diameter $D_w$	9.525 mm
Number of balls z	25
Preload class A $G_A$	200 N
Static axial stiffness, preload class A	159 N/ $\mu$ m
Preload class B $G_B$	610 N
Static axial stiffness, preload class B	238 N/ $\mu$ m
Preload class C $G_C$	1220 N
Static axial stiffness, preload class C	311 N/ $\mu$ m
Calculation factor f	1.09
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.06
Calculation factor $f_{HC}$	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single,	0.38



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tandem) $Y_0$	
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	0.58 kg