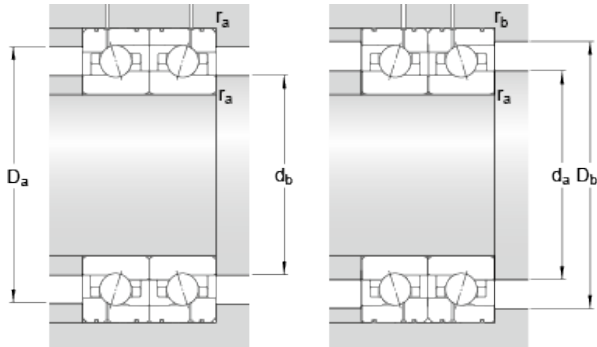




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## SKF 7013 ACE/HCP4AL1 Angular Contact Ball Bearings, Super-Precision

Bearing No. 7013 ACE/HCP4AL1

7013 ACE/HCP4AL1 Bearing 2D drawings and 3D CAD models

d	65 mm
D	100 mm
B	18 mm
d <sub>1</sub>	77.26 mm
d <sub>2</sub>	74.9 mm
D <sub>1</sub>	87.72 mm
b	1.6 mm
C <sub>1</sub>	5.3 mm
C <sub>2</sub>	3.3 mm
C <sub>3</sub>	3.3 mm
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
a	28.4 mm
d <sub>a</sub> min.	71 mm
d <sub>b</sub> min.	71 mm
D <sub>a</sub> max.	94 mm
D <sub>b</sub> max.	95.8 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.6 mm
d <sub>n</sub>	79.3 mm
Basic dynamic load rating C	19.5 kN
Basic static load rating C <sub>0</sub>	14.6 kN
Fatigue load limit P <sub>u</sub>	0.62 kN
Attainable speed for grease lubrication	20000 r/min
Attainable speed for oil-air	31000 r/min



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Lubrication	
Ball diameter $D_w$	8.731 mm
Number of balls $z$	25
Reference grease quantity $G_{ref}$	6.2 cm <sup>3</sup>
Preload class A $G_A$	170 N
Static axial stiffness, preload class A	146 N/ $\mu$ m
Preload class B $G_B$	520 N
Static axial stiffness, preload class B	220 N/ $\mu$ m
Preload class C $G_C$	1040 N
Static axial stiffness, preload class C	287 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, 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	0.39 kg



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