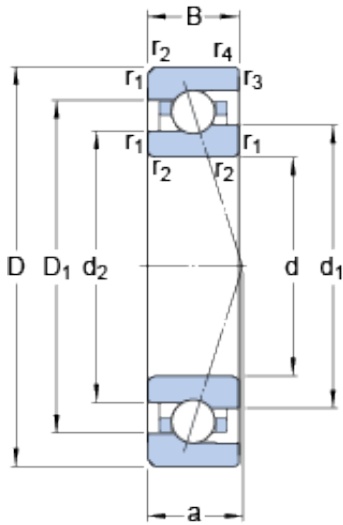




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40 mm x 68 mm x 15 mm SKF 7008 ACE/HCP4A Work Head Spindle bearing

Bearing No. 7008 ACE/HCP4A

7008 ACE/HCP4A Bearing 2D drawings and 3D CAD models

Size	68x40x15 mm
Bore Diameter	68 mm
Outer Diameter	40 mm
Width	15 mm
d	40 mm
D	68 mm
B	15 mm
d ₁	49.7 mm
d ₂	47.6 mm
D ₁	58.25 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	20.3 mm
d _a - min.	44.6 mm
d _b - min.	44.6 mm
D _a - max.	63.4 mm
D _b - max.	63.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	51.6 mm
Basic dynamic load rating - C	11.7 kN
Basic static load rating - C ₀	7.2 kN
Fatigue load limit - P _u	0.305 kN
Limiting speed for grease	32000 r/min



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Lubrication	
Limiting speed for oil lubrication	50000 mm/min
Ball - D_w	7.144 mm
Ball - z	19
G_{ref}	2.8 cm ³
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	105 N
Preload class B - G_B	310 N
Preload class C - G_C	630 N
Calculation factor - f	1.06
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	96 N/micron
Preload class B	143 N/micron
Preload class C	187 N/micron
d_1	49.7 mm
d_2	47.6 mm
D_1	58.25 mm
$r_{1,2}$ min.	1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	44.6 mm
d_b min.	44.6 mm
D_a max.	63.4 mm
D_b max.	63.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	51.6 mm
Basic dynamic load rating C	11.7 kN
Basic static load rating C_0	7.2 kN
Fatigue load limit P_u	0.305 kN
Attainable speed for grease lubrication	32000 r/min
Attainable speed for oil-air lubrication	50000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	19
Reference grease quantity G_{ref}	2.8 cm ³
Preload class A G_A	105 N
Static axial stiffness, preload class A	96 N/ μ m
Preload class B G_B	310 N
Static axial stiffness, preload class B	143 N/ μ m
Preload class C G_C	630 N
Static axial stiffness, preload class C	187 N/ μ m
Calculation factor f	1.06
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



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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	0.17 kg