



85 mm x 130 mm x 22 mm SKF 7017
ACE/HCP4AH1 angular contact ball bearings

Bearing No. 7017 ACE/HCP4AH1

7017 ACE/HCP4AH1 Bearing 2D drawings and 3D
CAD models

Size	130x85x22 mm
Bore Diameter	130 mm
Outer Diameter	85 mm
Width	22 mm
d	85 mm
D	130 mm
B	22 mm
d ₁	100.83 mm
d ₂	98 mm
D ₁	114.12 mm
K	0.5 mm
C ₁	7.27 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	36.3 mm
d _a - min.	91 mm
d _b - min.	91 mm
D _a - max.	124 mm
D _b - max.	125.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	103.5 mm
Basic dynamic load rating - C	32.5 kN
Basic static load rating - C ₀	28 kN



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Fatigue load limit - P_u	1.1 kN
Limiting speed for grease lubrication	15000 r/min
Limiting speed for oil lubrication	23000 mm/min
Ball - D_w	11.112 mm
Ball - z	26
G_{ref}	12 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	290 N
Preload class B - G_B	890 N
Preload class C - G_C	1780 N
Calculation factor - f	1.11
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	206 N/micron
Preload class B	312 N/micron
Preload class C	410 N/micron
d_1	100.83 mm
d_2	98 mm



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D_1	114.12 mm
C_1	7.27 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	91 mm
d_b min.	91 mm
D_a max.	124 mm
D_b max.	125.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	103.5 mm
Basic dynamic load rating C	32.5 kN
Basic static load rating C_0	28 kN
Fatigue load limit P_u	1.14 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	23000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	26
Reference grease quantity G_{ref}	12 cm ³
Preload class A G_A	290 N
Static axial stiffness, preload class A	206 N/ μ m
Preload class B G_B	890 N
Static axial stiffness, preload class B	312 N/ μ m
Preload class C G_C	1780 N
Static axial stiffness, preload class C	410 N/ μ m
Calculation factor f	1.11
Calculation factor f_1	0.99
Calculation factor f_{2A}	1



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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	0.81 kg