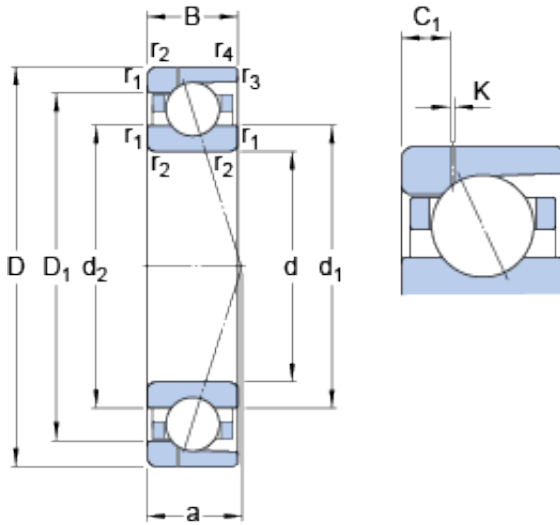




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160 mm x 240 mm x 38 mm SKF 7032 ACD/HCP4AH1 angular contact ball bearings

Bearing No. 7032 ACD/HCP4AH1

7032 ACD/HCP4AH1 Bearing 2D drawings and 3D
CAD models

Size	240x160x38 mm
Bore Diameter	240 mm
Outer Diameter	160 mm
Width	38 mm
d	160 mm
D	240 mm
B	38 mm
d ₁	184.7 mm
d ₂	184.7 mm
D ₁	215.3 mm
K	0.6 mm
C ₁	10.3 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1 mm
a	65.9 mm
d _a - min.	171 mm
d _b - min.	171 mm
D _a - max.	229 mm
D _b - max.	235 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	191.4 mm
Basic dynamic load rating - C	182 kN
Basic static load rating - C ₀	204 kN



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Fatigue load limit - P_u	6.2 kN
Limiting speed for grease lubrication	6300 r/min
Limiting speed for oil lubrication	9500 mm/min
Ball - D_w	25.4 mm
Ball - z	22
G_{ref}	66 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	1150 N
Preload class B - G_B	2300 N
Preload class C - G_C	4600 N
Preload class D - G_D	9200 N
Calculation factor - f	1.16
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1.02
Preload class A	459 N/micron
Preload class B	599 N/micron
Preload class C	795 N/micron



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Preload class D	1075 N/micron
d_1	184.7 mm
d_2	184.7 mm
D_1	215.3 mm
C_1	10.3 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
d_a min.	171 mm
d_b min.	171 mm
D_a max.	229 mm
D_b max.	235 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	191.4 mm
Basic dynamic load rating C	182 kN
Basic static load rating C_0	204 kN
Fatigue load limit P_u	6.2 kN
Attainable speed for grease lubrication	6300 r/min
Attainable speed for oil-air lubrication	9500 r/min
Ball diameter D_w	25.4 mm
Number of balls z	22
Reference grease quantity G_{ref}	66 cm ³
Preload class A G_A	1150 N
Static axial stiffness, preload class A	459 N/ μ m
Preload class B G_B	2300 N
Static axial stiffness, preload class B	599 N/ μ m
Preload class C G_C	4600 N
Static axial stiffness, preload class C	795 N/ μ m



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Preload class D G_D	9200 N
Static axial stiffness, preload class D	1075 N/ μ m
Calculation factor f	1.16
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1.02
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	4.26 kg