



San Driveshaft Co., Ltd.



7034 ACD/HCP4A Bearing 2D drawings and 3D CAD models

170 mm x 260 mm x 42 mm SKF 7034
ACD/HCP4A Duplex angular contact ball
bearings

Bearing No. 7034 ACD/HCP4A

Size	260x170x42 mm
Bore Diameter	260 mm
Outer Diameter	170 mm
Width	42 mm
d	170 mm
D	260 mm
B	42 mm
d ₁	198.7 mm
d ₂	198.7 mm
D ₁	231.3 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	71.4 mm
d _a - min.	181 mm
d _b - min.	181 mm
D _a - max.	249 mm
D _b - max.	254 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	205.8 mm
Basic dynamic load rating - C	199 kN
Basic static load rating - C ₀	232 kN
Fatigue load limit - P _u	6.7 kN



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Limiting speed for grease lubrication	6000 r/min
Limiting speed for oil lubrication	9000 mm/min
Ball - D_w	26.988 mm
Ball - z	22
G_{ref}	84 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	1250 N
Preload class B - G_B	2500 N
Preload class C - G_C	5000 N
Preload class D - G_D	10000 N
Calculation factor - f	1.14
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	480 N/micron
Preload class B	625 N/micron
Preload class C	826 N/micron
Preload class D	1113 N/micron



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d_1	198.7 mm
d_2	198.7 mm
D_1	231.3 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a min.	181 mm
d_b min.	181 mm
D_a max.	249 mm
D_b max.	254 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	205.8 mm
Basic dynamic load rating C	199 kN
Basic static load rating C_0	232 kN
Fatigue load limit P_u	6.7 kN
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	9000 r/min
Ball diameter D_w	26.988 mm
Number of balls z	22
Reference grease quantity G_{ref}	84 cm ³
Preload class A G_A	1250 N
Static axial stiffness, preload class A	480 N/ μ m
Preload class B G_B	2500 N
Static axial stiffness, preload class B	625 N/ μ m
Preload class C G_C	5000 N
Static axial stiffness, preload class C	826 N/ μ m
Preload class D G_D	10000 N
Static axial stiffness, preload class D	1113 N/ μ m



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class D	
Calculation factor f	1.14
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	5.92 kg