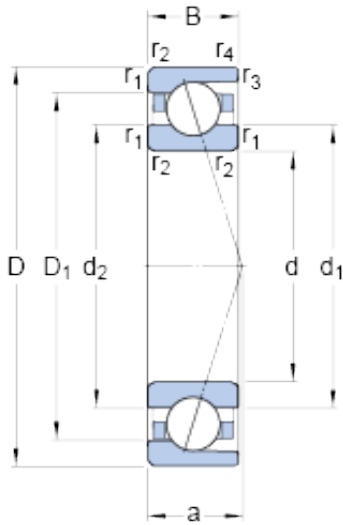




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7022 ACD/HCP4A Bearing 2D drawings and 3D CAD models

110 mm x 170 mm x 28 mm SKF 7022 ACD/HCP4A angular contact ball bearings

Bearing No. 7022 ACD/HCP4A

Size	170x110x28 mm
Bore Diameter	170 mm
Outer Diameter	110 mm
Width	28 mm
d	110 mm
D	170 mm
B	28 mm
d ₁	128.5 mm
d ₂	128.5 mm
D ₁	151.5 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	46.8 mm
d _a - min.	119 mm
d _b - min.	119 mm
D _a - max.	161 mm
D _b - max.	165 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	132.6 mm
Basic dynamic load rating - C	104 kN
Basic static load rating - C ₀	104 kN
Fatigue load limit - P _u	3.8 kN
Limiting speed for grease	8500 r/min



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Lubrication	
Limiting speed for oil lubrication	13000 mm/min
Ball - D_w	19.05 mm
Ball - z	20
G_{ref}	25.5 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	650 N
Preload class B - G_B	1300 N
Preload class C - G_C	2600 N
Preload class D - G_D	5200 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	322 N/micron
Preload class B	421 N/micron
Preload class C	558 N/micron
Preload class D	755 N/micron



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d_1	128.5 mm
d_2	128.5 mm
D_1	151.5 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	119 mm
d_b min.	119 mm
D_a max.	161 mm
D_b max.	165 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	132.6 mm
Basic dynamic load rating C	104 kN
Basic static load rating C_0	104 kN
Fatigue load limit P_u	3.75 kN
Attainable speed for grease lubrication	8500 r/min
Attainable speed for oil-air lubrication	13000 r/min
Ball diameter D_w	19.05 mm
Number of balls z	20
Reference grease quantity G_{ref}	25.5 cm ³
Preload class A G_A	650 N
Static axial stiffness, preload class A	322 N/ μ m
Preload class B G_B	1300 N
Static axial stiffness, preload class B	421 N/ μ m
Preload class C G_C	2600 N
Static axial stiffness, preload class C	558 N/ μ m
Preload class D G_D	5200 N
Static axial stiffness, preload class D	755 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	1.63 kg