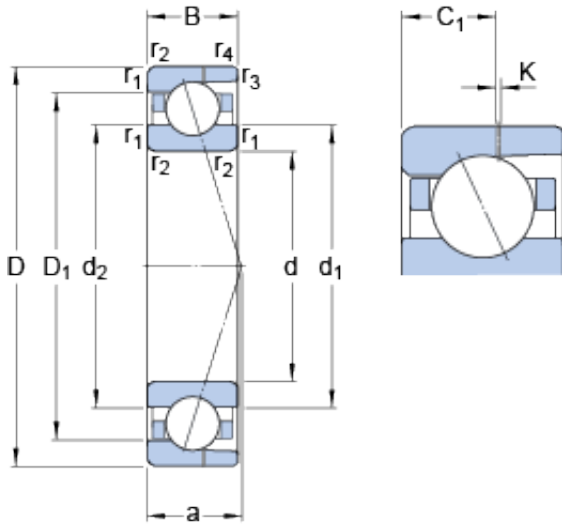




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17 mm x 35 mm x 10 mm SKF 7003 CD/HCP4AH angular contact ball bearings

Bearing No. 7003 CD/HCP4AH

7003 CD/HCP4AH Bearing 2D drawings and 3D CAD models

Size	35x17x10 mm
Bore Diameter	35 mm
Outer Diameter	17 mm
Width	10 mm
d	17 mm
D	35 mm
B	10 mm
d ₁	22.6 mm
d ₂	22.6 mm
D ₁	29.3 mm
K	0.5 mm
C ₁	6.05 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	8.5 mm
d _a - min.	19 mm
d _b - min.	19 mm
D _a - max.	33 mm
D _b - max.	33.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	23.7 mm
Basic dynamic load rating - C	6.8 kN
Basic static load rating - C ₀	3.2 kN



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Fatigue load limit - P_u	0.137 kN
Limiting speed for grease lubrication	60000 r/min
Limiting speed for oil lubrication	95000 mm/min
Ball - D_w	5.556 mm
Ball - z	12
G_{ref}	0.54 cm ³
Calculation factor - f_0	9.1
Preload class A - G_A	25 N
Preload class B - G_B	50 N
Preload class C - G_C	100 N
Preload class D - G_D	200 N
Calculation factor - f	1.04
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Preload class A	22 N/micron
Preload class B	29 N/micron
Preload class C	39 N/micron
Preload class D	55 N/micron
d_1	22.6 mm
d_2	22.6 mm
D_1	29.3 mm
C_1	6.05 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	19 mm



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d_b min.	19 mm
D_a max.	33 mm
D_b max.	33.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	23.7 mm
Basic dynamic load rating C	6.76 kN
Basic static load rating C_0	3.25 kN
Fatigue load limit P_u	0.137 kN
Attainable speed for grease lubrication	60000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	12
Reference grease quantity G_{ref}	0.54 cm ³
Preload class A G_A	25 N
Static axial stiffness, preload class A	22 N/ μ m
Preload class B G_B	50 N
Static axial stiffness, preload class B	29 N/ μ m
Preload class C G_C	100 N
Static axial stiffness, preload class C	39 N/ μ m
Preload class D G_D	200 N
Static axial stiffness, preload class D	55 N/ μ m
Calculation factor f	1.04
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



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Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	9.1
Mass bearing	0.033 kg