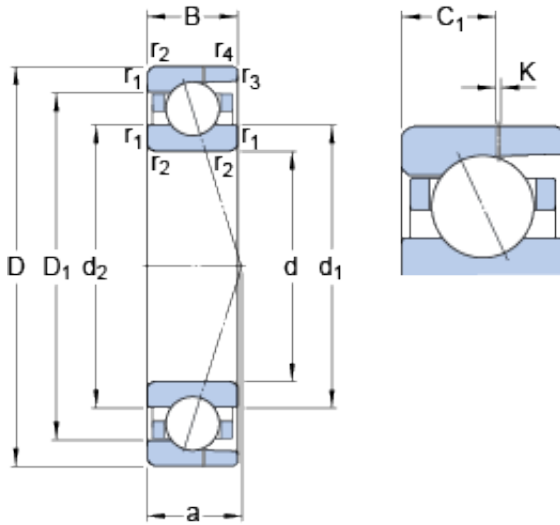




Bearing Rolamentos do Brasil Ltda.



12 mm x 28 mm x 8 mm SKF 7001 CD/HCP4AH angular contact ball bearings

Bearing No. 7001 CD/HCP4AH

7001 CD/HCP4AH Bearing 2D drawings and 3D CAD models

Size	28x12x8 mm
Bore Diameter	28 mm
Outer Diameter	12 mm
Width	8 mm
d	12 mm
D	28 mm
B	8 mm
d ₁	17.1 mm
d ₂	17.1 mm
D ₁	22.9 mm
K	0.5 mm
C ₁	4.9 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	6.7 mm
d _a - min.	14 mm
d _b - min.	14 mm
D _a - max.	26 mm
D _b - max.	26.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	18 mm
Basic dynamic load rating - C	4.5 kN
Basic static load rating - C ₀	1.9 kN



Bearing Rolamentos do Brasil Ltda.

Fatigue load limit - P_u	0.08 kN
Limiting speed for grease lubrication	80000 r/min
Limiting speed for oil lubrication	120000 mm/min
Ball - D_w	4.762 mm
Ball - z	10
G_{ref}	0.27 cm ³
Calculation factor - f_0	8.7
Preload class A - G_A	15 N
Preload class B - G_B	30 N
Preload class C - G_C	60 N
Preload class D - G_D	120 N
Calculation factor - f	1.03
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	15 N/micron
Preload class B	20 N/micron
Preload class C	27 N/micron
Preload class D	38 N/micron
d_1	17.1 mm
d_2	17.1 mm
D_1	22.9 mm
C_1	4.9 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	14 mm



Bearing Rolamentos do Brasil Ltda.

d_b min.	14 mm
D_a max.	26 mm
D_b max.	26.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	18 mm
Basic dynamic load rating C	4.49 kN
Basic static load rating C_0	1.9 kN
Fatigue load limit P_u	0.08 kN
Attainable speed for grease lubrication	80000 r/min
Attainable speed for oil-air lubrication	120000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	10
Reference grease quantity G_{ref}	0.27 cm ³
Preload class A G_A	15 N
Static axial stiffness, preload class A	15 N/ μ m
Preload class B G_B	30 N
Static axial stiffness, preload class B	20 N/ μ m
Preload class C G_C	60 N
Static axial stiffness, preload class C	27 N/ μ m
Preload class D G_D	120 N
Static axial stiffness, preload class D	38 N/ μ m
Calculation factor f	1.03
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



Bearing Rolamentos do Brasil Ltda.

Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	8.7
Mass bearing	0.018 kg