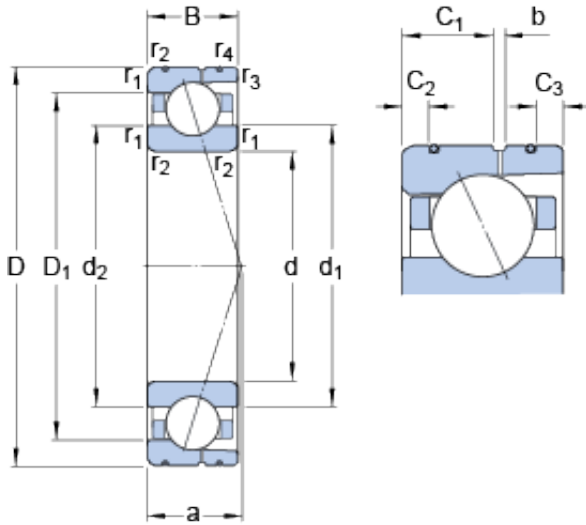




ROLLWAY BEARING Sales Co., Ltd.



7011 CD/HCP4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 7011 CD/HCP4AL

7011 CD/HCP4AL Bearing 2D drawings and 3D CAD models

Size	90x55x18 mm
Bore Diameter	90 mm
Outer Diameter	55 mm
Width	18 mm
d	55 mm
D	90 mm
B	18 mm
d ₁	65.8 mm
d ₂	65.8 mm
D ₁	79.2 mm
b	2.4 mm
C ₁	9 mm
C ₂	4.3 mm
C ₃	3.8 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	18.8 mm
d _a - min.	61 mm
d _b - min.	61 mm
D _a - max.	84 mm
D _b - max.	86.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	68.1 mm



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Basic dynamic load rating - C	39.7 kN
Basic static load rating - C ₀	32.5 kN
Fatigue load limit - P _u	1.4 kN
Limiting speed for grease lubrication	18000 r/min
Limiting speed for oil lubrication	28000 mm/min
Ball - D _w	11.112 mm
Ball - z	18
G _{ref}	5.1 cm ³
Calculation factor - f ₀	15.1
Preload class A - G _A	150 N
Preload class B - G _B	300 N
Preload class C - G _C	600 N
Preload class D - G _D	1200 N
Calculation factor - f	1.1
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	75 N/micron
Preload class B	102 N/micron
Preload class C	143 N/micron
Preload class D	207 N/micron
d ₁	65.8 mm
d ₂	65.8 mm
D ₁	79.2 mm
C ₁	9 mm



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C_2	4.3 mm
C_3	3.8 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	61 mm
d_b min.	61 mm
D_a max.	84 mm
D_b max.	86.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	68.1 mm
Basic dynamic load rating C	39.7 kN
Basic static load rating C_0	32.5 kN
Fatigue load limit P_u	1.37 kN
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	18
Reference grease quantity G_{ref}	5.1 cm ³
Preload class A G_A	150 N
Static axial stiffness, preload class A	75 N/ μ m
Preload class B G_B	300 N
Static axial stiffness, preload class B	102 N/ μ m
Preload class C G_C	600 N
Static axial stiffness, preload class C	143 N/ μ m
Preload class D G_D	1200 N
Static axial stiffness, preload class D	207 N/ μ m



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Calculation factor f	1.1
Calculation factor f_1	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
Calculation factor f_0	15.1
Mass bearing	0.32 kg