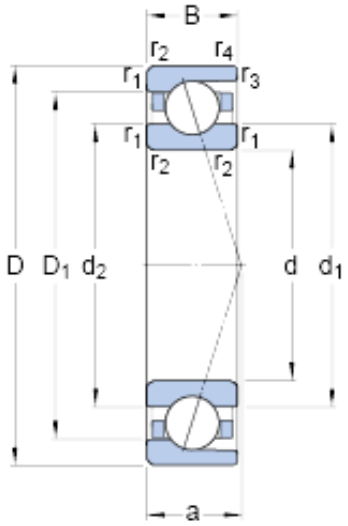

71812 CD/HCP4 Bearing 2D drawings and 3D CAD models

60 mm x 78 mm x 10 mm SKF 71812 CD/HCP4 angular contact ball bearings

Bearing No. 71812 CD/HCP4

Size	78x60x10 mm
Bore Diameter	78 mm
Outer Diameter	60 mm
Width	10 mm
d	60 mm
D	78 mm
B	10 mm
d_1	65.7 mm
d_2	65.7 mm
D_1	72.5 mm
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.15 mm
a	14.3 mm
d_a - min.	62 mm
d_b - min.	62 mm
D_a - max.	76 mm
D_b - max.	77.2 mm
r_a - max.	0.3 mm
r_b - max.	0.15 mm
d_n	66.4 mm
Basic dynamic load rating - C	13.5 kN
Basic static load rating - C_0	14.3 kN
Fatigue load limit - P_u	0.6 kN
Limiting speed for grease	19000 r/min

lubrication	
Limiting speed for oil lubrication	30000 mm/min
Ball - D_w	5.556 mm
Ball - z	28
G_{ref}	1.2 cm3
Calculation factor - f_0	17
Preload class A - G_A	70 N
Preload class B - G_B	210 N
Preload class C - G_C	420 N
Calculation factor - f	1.3
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.1
Calculation factor - f_{2C}	1.18
Calculation factor - f_{HC}	1.02
Preload class A	66 N/micron
Preload class B	114 N/micron
Preload class C	169 N/micron
d_1	65.7 mm
d_2	65.7 mm
D_1	72.5 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	62 mm
d_b min.	62 mm
D_a max.	76 mm
D_b max.	77.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	66.4 mm

Basic dynamic load rating C	13.5 kN
Basic static load rating C_0	14.3 kN
Fatigue load limit P_u	0.6 kN
Attainable speed for grease lubrication	19000 r/min
Attainable speed for oil-air lubrication	30000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	28
Reference grease quantity G_{ref}	1.2 cm^3
Preload class A G_A	70 N
Static axial stiffness, preload class A	66 N/µm
Preload class B G_B	210 N
Static axial stiffness, preload class B	114 N/µm
Preload class C G_C	420 N
Static axial stiffness, preload class C	169 N/µm
Calculation factor f	1.3
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.1
Calculation factor f_{2C}	1.18
Calculation factor f_{HC}	1.02
Calculation factor f_0	17
Mass bearing	0.088 kg