



San Driveshaft Co., Ltd.



71814 CD/HCP4 Bearing 2D drawings and 3D CAD models

70 mm x 90 mm x 10 mm SKF 71814 CD/HCP4 Axial angular contact ball bearings

Bearing No. 71814 CD/HCP4

Size	90x70x10 mm
Bore Diameter	90 mm
Outer Diameter	70 mm
Width	10 mm
d	70 mm
D	90 mm
B	10 mm
d ₁	76.7 mm
d ₂	76.7 mm
D ₁	83.5 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	15.7 mm
d _a - min.	73.2 mm
d _b - min.	73.2 mm
D _a - max.	86.8 mm
D _b - max.	88 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	77.4 mm
Basic dynamic load rating - C	13.8 kN
Basic static load rating - C ₀	16 kN
Fatigue load limit - P _u	0.67 kN
Limiting speed for grease	17000 r/min



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Lubrication	
Limiting speed for oil lubrication	26000 mm/min
Ball - D_w	5.556 mm
Ball - z	31
G_{ref}	1.4 cm ³
Calculation factor - f_0	17.2
Preload class A - G_A	73 N
Preload class B - G_B	220 N
Preload class C - G_C	440 N
Calculation factor - f	1.32
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	72 N/micron
Preload class B	125 N/micron
Preload class C	184 N/micron
d_1	76.7 mm
d_2	76.7 mm
D_1	83.5 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	73.2 mm
d_b min.	73.2 mm
D_a max.	86.8 mm
D_b max.	88 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	77.4 mm



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Basic dynamic load rating C	13.8 kN
Basic static load rating C_0	16 kN
Fatigue load limit P_u	0.67 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	26000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	31
Reference grease quantity G_{ref}	1.4 cm ³
Preload class A G_A	73 N
Static axial stiffness, preload class A	72 N/ μ m
Preload class B G_B	220 N
Static axial stiffness, preload class B	125 N/ μ m
Preload class C G_C	440 N
Static axial stiffness, preload class C	184 N/ μ m
Calculation factor f	1.32
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	17.2
Mass bearing	0.12 kg