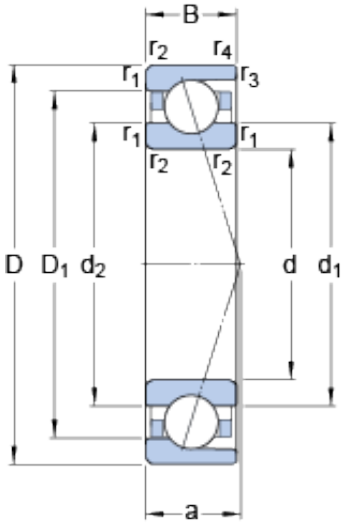




Off-the-shelf SKF shaft Co., Ltd



71813 CD/HCP4 Bearing 2D drawings and 3D CAD models

65 mm x 85 mm x 10 mm SKF 71813 CD/HCP4 TAC series for ball screw support

Bearing No. 71813 CD/HCP4

Size	85x65x10 mm
Bore Diameter	85 mm
Outer Diameter	65 mm
Width	10 mm
d	65 mm
D	85 mm
B	10 mm
d ₁	71.7 mm
d ₂	71.7 mm
D ₁	78.5 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	15.1 mm
d _a - min.	68.2 mm
d _b - min.	68.2 mm
D _a - max.	81.8 mm
D _b - max.	83 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	72.4 mm
Basic dynamic load rating - C	13.5 kN
Basic static load rating - C ₀	14.6 kN
Fatigue load limit - P _u	0.63 kN
Limiting speed for grease	18000 r/min



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Lubrication	
Limiting speed for oil lubrication	28000 mm/min
Ball - D_w	5.556 mm
Ball - z	29
G_{ref}	1.3 cm ³
Calculation factor - f_0	17.1
Preload class A - G_A	71 N
Preload class B - G_B	215 N
Preload class C - G_C	430 N
Calculation factor - f	1.28
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	67 N/micron
Preload class B	116 N/micron
Preload class C	172 N/micron
d_1	71.7 mm
d_2	71.7 mm
D_1	78.5 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	68.2 mm
d_b min.	68.2 mm
D_a max.	81.8 mm
D_b max.	83 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	72.4 mm



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Basic dynamic load rating C	13.5 kN
Basic static load rating C_0	14.6 kN
Fatigue load limit P_u	0.63 kN
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter D_w	5.556 mm
Number of balls z	29
Reference grease quantity G_{ref}	1.3 cm ³
Preload class A G_A	71 N
Static axial stiffness, preload class A	67 N/ μ m
Preload class B G_B	215 N
Static axial stiffness, preload class B	116 N/ μ m
Preload class C G_C	430 N
Static axial stiffness, preload class C	172 N/ μ m
Calculation factor f	1.28
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	17.1
Mass bearing	0.11 kg