



NTN Bearing Manufacturing



71802 CD/HCP4 Bearing 2D drawings and 3D CAD models

15 mm x 24 mm x 5 mm SKF 71802 CD/HCP4 angular contact ball bearings

Bearing No. 71802 CD/HCP4

Size	24x15x5 mm
Bore Diameter	24 mm
Outer Diameter	15 mm
Width	5 mm
d	15 mm
D	24 mm
B	5 mm
d ₁	18.1 mm
d ₂	18.1 mm
D ₁	21.1 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	5.1 mm
d _a - min.	17 mm
d _b - min.	17 mm
D _a - max.	22 mm
D _b - max.	23.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	18.4 mm
Basic dynamic load rating - C	2.3 kN
Basic static load rating - C ₀	1.5 kN
Fatigue load limit - P _u	0.063 kN
Limiting speed for grease	70000 r/min



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Lubrication	
Limiting speed for oil lubrication	110000 mm/min
Ball - D_w	2.381 mm
Ball - z	17
G_{ref}	0.08 cm ³
Calculation factor - f_0	16
Preload class A - G_A	12 N
Preload class B - G_B	36 N
Preload class C - G_C	72 N
Calculation factor - f	1.08
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	19 N/micron
Preload class B	33 N/micron
Preload class C	48 N/micron
d_1	18.1 mm
d_2	18.1 mm
D_1	21.1 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	17 mm
d_b min.	17 mm
D_a max.	22 mm
D_b max.	23.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	18.4 mm



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Basic dynamic load rating C	2.29 kN
Basic static load rating C_0	1.5 kN
Fatigue load limit P_u	0.063 kN
Attainable speed for grease lubrication	70000 r/min
Attainable speed for oil-air lubrication	110000 r/min
Ball diameter D_w	2.381 mm
Number of balls z	17
Reference grease quantity G_{ref}	0.08 cm ³
Preload class A G_A	12 N
Static axial stiffness, preload class A	19 N/ μ m
Preload class B G_B	36 N
Static axial stiffness, preload class B	33 N/ μ m
Preload class C G_C	72 N
Static axial stiffness, preload class C	48 N/ μ m
Calculation factor f	1.08
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	16
Mass bearing	0.006 kg