



UGE BEARING INDUSTRIAL CO., LTD.



71800 CD/HCP4 Bearing 2D drawings and 3D CAD models

10 mm x 19 mm x 5 mm SKF 71800 CD/HCP4
Special design 60 ° contact angle Precision
Bearings

Bearing No. 71800 CD/HCP4

Size	19x10x5 mm
Bore Diameter	19 mm
Outer Diameter	10 mm
Width	5 mm
d	10 mm
D	19 mm
B	5 mm
d ₁	13.1 mm
d ₂	13.1 mm
D ₁	16.1 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	4.5 mm
d _a - min.	12 mm
d _b - min.	12 mm
D _a - max.	17 mm
D _b - max.	18.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	13.4 mm
Basic dynamic load rating - C	1.9 kN
Basic static load rating - C ₀	0.98 kN
Fatigue load limit - P _u	0.043 kN



UGE BEARING INDUSTRIAL CO., LTD.

Limiting speed for grease lubrication	95000 r/min
Limiting speed for oil lubrication	150000 mm/min
Ball - D_w	2.381 mm
Ball - z	12
G_{ref}	0.06 cm ³
Calculation factor - f_0	15
Preload class A - G_A	10 N
Preload class B - G_B	30 N
Preload class C - G_C	60 N
Calculation factor - f	1.05
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	14 N/micron
Preload class B	24 N/micron
Preload class C	36 N/micron
d_1	13.1 mm
d_2	13.1 mm
D_1	16.1 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	12 mm
d_b min.	12 mm
D_a max.	17 mm
D_b max.	18.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm



UGE BEARING INDUSTRIAL CO., LTD.

d_n	13.4 mm
Basic dynamic load rating C	1.9 kN
Basic static load rating C_0	0.98 kN
Fatigue load limit P_u	0.043 kN
Attainable speed for grease lubrication	95000 r/min
Attainable speed for oil-air lubrication	150000 r/min
Ball diameter D_w	2.381 mm
Number of balls z	12
Reference grease quantity G_{ref}	0.06 cm ³
Preload class A G_A	10 N
Static axial stiffness, preload class A	14 N/ μ m
Preload class B G_B	30 N
Static axial stiffness, preload class B	24 N/ μ m
Preload class C G_C	60 N
Static axial stiffness, preload class C	36 N/ μ m
Calculation factor f	1.05
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	15
Mass bearing	0.005 kg