



71934 CD/HCP4A Bearing 2D drawings and 3D CAD models

170 mm x 230 mm x 28 mm SKF 71934
CD/HCP4A angular contact ball bearings

Bearing No. 71934 CD/HCP4A

Size	230x170x28 mm
Bore Diameter	230 mm
Outer Diameter	170 mm
Width	28 mm
d	170 mm
D	230 mm
B	28 mm
d ₁	188.5 mm
d ₂	188.5 mm
D ₁	211.5 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	40.9 mm
d _a - min.	179 mm
d _b - min.	179 mm
D _a - max.	221 mm
D _b - max.	225 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	193.5 mm
Basic dynamic load rating - C	133 kN
Basic static load rating - C ₀	166 kN
Fatigue load limit - P _u	5.1 kN
Limiting speed for grease	7000 r/min



Shanghai Ruonan-Power Co., Ltd.

Lubrication	
Limiting speed for oil lubrication	10000 mm/min
Ball - D_w	19.05 mm
Ball - z	29
G_{ref}	36 cm ³
Calculation factor - f_0	16.5
Preload class A - G_A	500 N
Preload class B - G_B	1000 N
Preload class C - G_C	2000 N
Preload class D - G_D	4000 N
Calculation factor - f	1.3
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.18
Calculation factor - f_{HC}	1.04
Preload class A	190 N/micron
Preload class B	262 N/micron
Preload class C	371 N/micron
Preload class D	547 N/micron
d_1	188.5 mm
d_2	188.5 mm
D_1	211.5 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	179 mm
d_b min.	179 mm
D_a max.	221 mm



Shanghai Ruonan-Power Co., Ltd.

D_b max.	225 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	193.5 mm
Basic dynamic load rating C	133 kN
Basic static load rating C_0	166 kN
Fatigue load limit P_u	5.1 kN
Attainable speed for grease lubrication	7000 r/min
Attainable speed for oil-air lubrication	10000 r/min
Ball diameter D_w	19.05 mm
Number of balls z	29
Reference grease quantity G_{ref}	36 cm ³
Preload class A G_A	500 N
Static axial stiffness, preload class A	190 N/ μ m
Preload class B G_B	1000 N
Static axial stiffness, preload class B	262 N/ μ m
Preload class C G_C	2000 N
Static axial stiffness, preload class C	371 N/ μ m
Preload class D G_D	4000 N
Static axial stiffness, preload class D	547 N/ μ m
Calculation factor f	1.3
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.18
Calculation factor f_{HC}	1.04



Shanghai Ruonan-Power Co., Ltd.

Calculation factor f_0	16.5
Mass bearing	2.34 kg