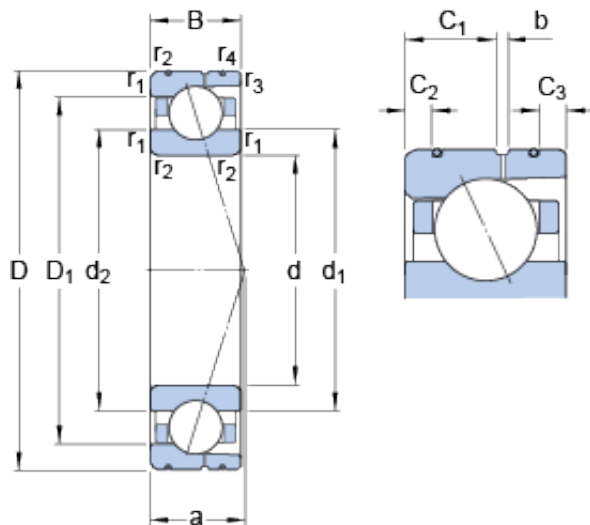




AMERICAN BEARING MFG.CORP.



100 mm x 140 mm x 20 mm SKF 71920
CD/HCP4AL angular contact ball bearings

Bearing No. 71920 CD/HCP4AL

71920 CD/HCP4AL Bearing 2D drawings and 3D CAD models

Size	140x100x20 mm
Bore Diameter	140 mm
Outer Diameter	100 mm
Width	20 mm
d	100 mm
D	140 mm
B	20 mm
d ₁	112.3 mm
d ₂	112.3 mm
D ₁	127.7 mm
b	2.3 mm
C ₁	10.9 mm
C ₂	4 mm
C ₃	3.3 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	26.1 mm
d _a - min.	106 mm
d _b - min.	106 mm
D _a - max.	134 mm
D _b - max.	136 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	115.6 mm



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Basic dynamic load rating - C	60.5 kN
Basic static load rating - C ₀	65.5 kN
Fatigue load limit - P _u	2.6 kN
Limiting speed for grease lubrication	11000 r/min
Limiting speed for oil lubrication	17000 mm/min
Ball - D _w	12.7 mm
Ball - z	26
G _{ref}	10.5 cm ³
Calculation factor - f ₀	16.3
Preload class A - G _A	230 N
Preload class B - G _B	460 N
Preload class C - G _C	920 N
Preload class D - G _D	1840 N
Calculation factor - f	1.23
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	119 N/micron
Preload class B	164 N/micron
Preload class C	232 N/micron
Preload class D	340 N/micron
d ₁	112.3 mm
d ₂	112.3 mm
D ₁	127.7 mm
C ₁	10.9 mm



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C_2	4 mm
C_3	3.3 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	106 mm
d_b min.	106 mm
D_a max.	134 mm
D_b max.	136 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	115.6 mm
Basic dynamic load rating C	60.5 kN
Basic static load rating C_0	65.5 kN
Fatigue load limit P_u	2.55 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	26
Reference grease quantity G_{ref}	10.5 cm ³
Preload class A G_A	230 N
Static axial stiffness, preload class A	119 N/ μ m
Preload class B G_B	460 N
Static axial stiffness, preload class B	164 N/ μ m
Preload class C G_C	920 N
Static axial stiffness, preload class C	232 N/ μ m
Preload class D G_D	1840 N
Static axial stiffness, preload class D	340 N/ μ m



AMERICAN BEARING MFG.CORP.

Calculation factor f	1.23
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
Calculation factor f_0	16.3
Mass bearing	0.67 kg