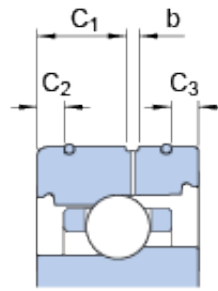
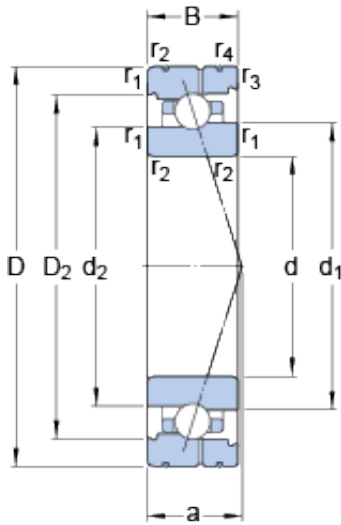




NTA PRECISION AXLE CORP.



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

Bearing No. 71920 ACB/HCP4AL

71920 ACB/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	114.92 mm
d ₂	113.16 mm
D ₂	128.7 mm
b	2.2 mm
C ₁	10.9 mm
C ₂	4.5 mm
C ₃	2.9 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	41.4 mm
d _a - min.	106 mm
d _b - min.	106 mm
D _a - max.	134 mm
D _b - max.	136.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	116.1 mm



NTA PRECISION AXLE CORP.

Basic dynamic load rating - C	20.8 kN
Basic static load rating - C ₀	21.2 kN
Fatigue load limit - P _u	0.815 kN
Limiting speed for grease lubrication	13000 r/min
Limiting speed for oil lubrication	20000 mm/min
Ball - D _w	7.938 mm
Ball - z	37
G _{ref}	9.96 cm ³
Calculation factor - e	0.68
Calculation factor - Y ₂	0.87
Calculation factor - Y ₀	0.38
Calculation factor - X ₂	0.41
Calculation factor - Y ₁	0.92
Calculation factor - Y ₂	1.41
Calculation factor - Y ₀	0.76
Calculation factor - X ₂	0.67
Preload class A - G _A	125 N
Preload class B - G _B	250 N
Preload class C - G _C	750 N
Calculation factor - f	1.11
Calculation factor - f ₁	0.99
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.02
Calculation factor - f _{2C}	1.08
Calculation factor - f _{HC}	1.01
Preload class A	178 N/micron
Preload class B	226 N/micron



NTA PRECISION AXLE CORP.

Preload class C	343 N/micron
d_1	114.92 mm
d_2	113.16 mm
D_2	128.7 mm
C_1	10.9 mm
C_2	4.5 mm
C_3	2.9 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.	136.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	116.1 mm
Basic dynamic load rating C	27.6 kN
Basic static load rating C_0	33.5 kN
Fatigue load limit P_u	0.815 kN
Attainable speed for grease lubrication	13000 r/min
Attainable speed for oil-air lubrication	20000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	37
Reference grease quantity G_{ref}	9.96 cm ³
Preload class A G_A	125 N
Static axial stiffness, preload class A	178 N/ μ m
Preload class B G_B	250 N
Static axial stiffness, preload class B	226 N/ μ m
Preload class C G_C	750 N



NTA PRECISION AXLE CORP.

Static axial stiffness, preload class C	343 N/ μ m
Calculation factor f	1.11
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.8 kg