



ASAHI FORGE OF AMERICA BEARING CORP.



71922 ACD/HCP4A Bearing 2D drawings and 3D CAD models

110 mm x 150 mm x 20 mm SKF 71922
ACD/HCP4A angular contact ball bearings

Bearing No. 71922 ACD/HCP4A

Size	150x110x20 mm
Bore Diameter	150 mm
Outer Diameter	110 mm
Width	20 mm
d	110 mm
D	150 mm
B	20 mm
d ₁	122.3 mm
d ₂	122.3 mm
D ₁	137.7 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	40.4 mm
d _a - min.	116 mm
d _b - min.	116 mm
D _a - max.	144 mm
D _b - max.	146 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	125.6 mm
Basic dynamic load rating - C	58.5 kN
Basic static load rating - C ₀	68 kN
Fatigue load limit - P _u	2.6 kN
Limiting speed for grease	8500 r/min



ASAHI FORGE OF AMERICA BEARING CORP.

Lubrication	
Limiting speed for oil lubrication	14000 mm/min
Ball - D_w	12.7 mm
Ball - z	28
G_{ref}	11.4 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	370 N
Preload class B - G_B	740 N
Preload class C - G_C	1480 N
Preload class D - G_D	2960 N
Calculation factor - f	1.26
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.17
Calculation factor - f_{HC}	1.04
Preload class A	304 N/micron
Preload class B	399 N/micron
Preload class C	535 N/micron
Preload class D	733 N/micron



ASAHI FORGE OF AMERICA BEARING CORP.

d_1	122.3 mm
d_2	122.3 mm
D_1	137.7 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	116 mm
d_b min.	116 mm
D_a max.	144 mm
D_b max.	146 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	125.6 mm
Basic dynamic load rating C	58.5 kN
Basic static load rating C_0	68 kN
Fatigue load limit P_u	2.55 kN
Attainable speed for grease lubrication	8500 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	28
Reference grease quantity G_{ref}	11.4 cm ³
Preload class A G_A	370 N
Static axial stiffness, preload class A	304 N/ μ m
Preload class B G_B	740 N
Static axial stiffness, preload class B	399 N/ μ m
Preload class C G_C	1480 N
Static axial stiffness, preload class C	535 N/ μ m
Preload class D G_D	2960 N
Static axial stiffness, preload class D	733 N/ μ m



ASAHI FORGE OF AMERICA BEARING CORP.

class D	
Calculation factor f	1.26
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.17
Calculation factor f_{HC}	1.04
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	0.73 kg