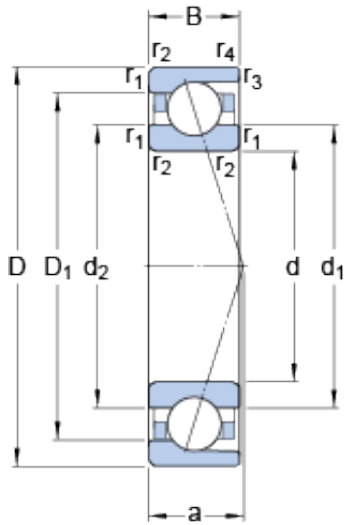




BEARING PRECISION AXLE CORP.



105 mm x 130 mm x 13 mm SKF 71821 ACD/HCP4 Angular contact ball bearings

Bearing No. 71821 ACD/HCP4

71821 ACD/HCP4 Bearing 2D drawings and 3D CAD models

Size	130x105x13 mm
Bore Diameter	130 mm
Outer Diameter	105 mm
Width	13 mm
d	105 mm
D	130 mm
B	13 mm
d ₁	113.2 mm
d ₂	113.2 mm
D ₁	122 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	34 mm
d _a - min.	109.6 mm
d _b - min.	109.6 mm
D _a - max.	125.4 mm
D _b - max.	128 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	114.6 mm
Basic dynamic load rating - C	21.6 kN
Basic static load rating - C ₀	28.5 kN
Fatigue load limit - P _u	1.1 kN
Limiting speed for grease	9500 r/min



BEARING PRECISION AXLE CORP.

Lubrication	
Limiting speed for oil lubrication	15000 mm/min
Ball - D_w	7.144 mm
Ball - z	35
G_{ref}	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	200 N
Preload class B - G_B	600 N
Preload class C - G_C	1200 N
Calculation factor - f	1.44
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.09
Calculation factor - f_{2C}	1.17
Calculation factor - f_{HC}	1.02
Preload class A	244 N/micron
Preload class B	392 N/micron
Preload class C	541 N/micron
d_1	113.2 mm
d_2	113.2 mm
D_1	122 mm
$r_{1,2}$ min.	1 mm



BEARING PRECISION AXLE CORP.

$r_{3,4}$ min.	0.3 mm
d_a min.	109.6 mm
d_b min.	109.6 mm
D_a max.	125.4 mm
D_b max.	128 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	114.6 mm
Basic dynamic load rating C	21.6 kN
Basic static load rating C_0	28.5 kN
Fatigue load limit P_u	1.1 kN
Attainable speed for grease lubrication	9500 r/min
Attainable speed for oil-air lubrication	15000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	35
Reference grease quantity G_{ref}	4 cm ³
Preload class A G_A	200 N
Static axial stiffness, preload class A	244 N/ μ m
Preload class B G_B	600 N
Static axial stiffness, preload class B	392 N/ μ m
Preload class C G_C	1200 N
Static axial stiffness, preload class C	541 N/ μ m
Calculation factor f	1.44
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.09
Calculation factor f_{2C}	1.17
Calculation factor f_{HC}	1.02



BEARING PRECISION AXLE CORP.

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	0.29 kg