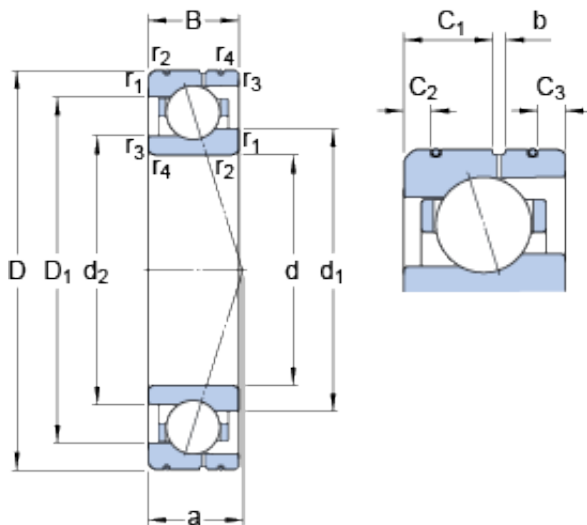




MANUFACTURING? BEARING INDONESIA



100 mm x 140 mm x 20 mm 100 mm x 140 mm
x 20 mm SKF 71920 ACE/P4AL angular contact
ball bearings

Bearing No. 71920 ACE/P4AL

71920 ACE/P4AL 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	112.4 mm
d ₂	109 mm
D ₁	127.51 mm
b	2.3 mm
C ₁	10.9 mm
C ₂	3 mm
C ₃	3.3 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	39.2 mm
d _a - min.	106 mm
d _b - min.	103.2 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	115.4 mm



MANUFACTURING BEARING INDONESIA

Basic dynamic load rating - C	36.4 kN
Basic static load rating - C_0	30 kN
Fatigue load limit - P_u	1.1 kN
Limiting speed for grease lubrication	11500 r/min
Limiting speed for oil lubrication	18000 mm/min
Ball - D_w	12.7 mm
Ball - z	24
G_{ref}	10 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	332 N
Preload class B - G_B	996 N
Preload class C - G_C	1990 N
Calculation factor - f	1.18
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.07
Calculation factor - f_{HC}	1
Preload class A	187 N/micron
Preload class B	280 N/micron



MANUFACTURING BEARING INDONESIA

Preload class C	367 N/micron
d_1	112.4 mm
d_2	109 mm
D_1	127.51 mm
C_1	10.9 mm
C_2	3 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.	103.2 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	115.4 mm
Basic dynamic load rating C	36.4 kN
Basic static load rating C_0	30 kN
Fatigue load limit P_u	1.14 kN
Attainable speed for grease lubrication	11500 r/min
Attainable speed for oil-air lubrication	18000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	24
Reference grease quantity G_{ref}	10 cm ³
Preload class A G_A	332 N
Static axial stiffness, preload class A	187 N/ μ m
Preload class B G_B	996 N
Static axial stiffness, preload class B	280 N/ μ m
Preload class C G_C	1990 N



MANUFACTURING?BEARING INDONESIA

Static axial stiffness, preload class C	367 N/ μ m
Calculation factor f	1.18
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.07
Calculation factor f_{HC}	1
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	0.77 kg