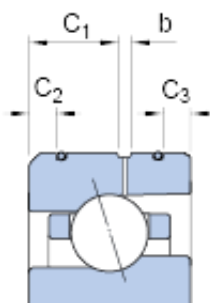
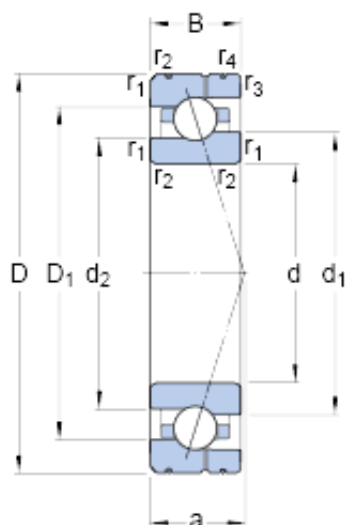




BEARING USA CORP.



100 mm x 150 mm x 24 mm SKF 7020
ACE/P4AL angular contact ball bearings

Bearing No. 7020 ACE/P4AL

Size	100x150x24 mm
Bore Diameter	100 mm
Outer Diameter	150 mm
Width	24 mm
d	100 mm
D	150 mm
B	24 mm
d ₁	117.38 mm
d ₂	114.2 mm
D ₁	132.61 mm
b	2.2 mm
C ₁	13.4 mm
C ₂	4 mm
C ₃	4 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
a	41.4 mm
d _a - min.	107 mm
d _b - min.	107 mm
D _a - max.	143 mm
D _b - max.	144.4 mm
r _a - max.	1.5 mm
r _b - max.	1 mm
d _n	120.4 mm

7020 ACE/P4AL Bearing 2D drawings and 3D CAD models



BEARING USA CORP.

Basic dynamic load rating - C	42.3 kN
Basic static load rating - C ₀	38 kN
Fatigue load limit - P _u	1.4 kN
Limiting speed for grease lubrication	11200 r/min
Limiting speed for oil lubrication	17500 mm/min
Ball - D _w	12.7 mm
Ball - z	27
G _{ref}	17 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	390 N
Preload class B - G _B	1150 N
Preload class C - G _C	2310 N
Calculation factor - f	1.12
Calculation factor - f ₁	0.99
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.03
Calculation factor - f _{2C}	1.06
Calculation factor - f _{HC}	1
Preload class A	220 N/micron
Preload class B	330 N/micron



BEARING USA CORP.

Preload class C	435 N/micron
d_1	117.38 mm
d_2	114.2 mm
D_1	132.61 mm
C_1	13.4 mm
C_2	4 mm
C_3	4 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a min.	107 mm
d_b min.	107 mm
D_a max.	143 mm
D_b max.	144.4 mm
r_a max.	1.5 mm
r_b max.	1 mm
d_n	120.4 mm
Basic dynamic load rating C	42.3 kN
Basic static load rating C_0	38 kN
Fatigue load limit P_u	1.43 kN
Attainable speed for grease lubrication	11200 r/min
Attainable speed for oil-air lubrication	17500 r/min
Ball diameter D_w	12.7 mm
Number of balls z	27
Reference grease quantity G_{ref}	17 cm ³
Preload class A G_A	390 N
Static axial stiffness, preload class A	220 N/ μ m
Preload class B G_B	1150 N
Static axial stiffness, preload class B	330 N/ μ m
Preload class C G_C	2310 N



BEARING USA CORP.

Static axial stiffness, preload class C	435 N/ μ m
Calculation factor f	1.12
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.06
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	1.26 kg