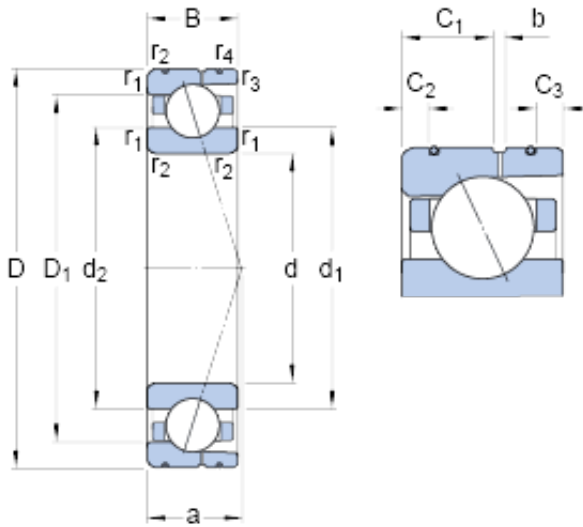




BEARING USA CORP.



120 mm x 180 mm x 28 mm SKF 7024
CD/P4AL angular contact ball bearings

Bearing No. 7024 CD/P4AL

7024 CD/P4AL Bearing 2D drawings and 3D CAD models

Size	180x120x28 mm
Bore Diameter	180 mm
Outer Diameter	120 mm
Width	28 mm
d	120 mm
D	180 mm
B	28 mm
d ₁	138.5 mm
d ₂	138.5 mm
D ₁	161.5 mm
b	2.8 mm
C ₁	15 mm
C ₂	6.2 mm
C ₃	5.4 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	34.2 mm
d _a - min.	129 mm
d _b - min.	129 mm
D _a - max.	171 mm
D _b - max.	175 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	142.6 mm



BEARING USA CORP.

Basic dynamic load rating - C	114 kN
Basic static load rating - C ₀	122 kN
Fatigue load limit - P _u	4.2 kN
Limiting speed for grease lubrication	7000 r/min
Limiting speed for oil lubrication	11000 mm/min
Ball - D _w	19.05 mm
Ball - z	22
G _{ref}	27 cm ³
Calculation factor - f ₀	15.7
Preload class A - G _A	430 N
Preload class B - G _B	860 N
Preload class C - G _C	1720 N
Preload class D - G _D	3440 N
Calculation factor - f	1.17
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.02
Calculation factor - f _{2C}	1.05
Calculation factor - f _{2D}	1.09
Calculation factor - f _{HC}	1
Preload class A	131 N/micron
Preload class B	179 N/micron
Preload class C	251 N/micron
Preload class D	364 N/micron
d ₁	138.5 mm
d ₂	138.5 mm
D ₁	161.5 mm
C ₁	15 mm



BEARING USA CORP.

C_2	6.2 mm
C_3	5.4 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	129 mm
d_b min.	129 mm
D_a max.	171 mm
D_b max.	175 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	142.6 mm
Basic dynamic load rating C	114 kN
Basic static load rating C_0	122 kN
Fatigue load limit P_u	4.25 kN
Attainable speed for grease lubrication	7000 r/min
Attainable speed for oil-air lubrication	11000 r/min
Ball diameter D_w	19.05 mm
Number of balls z	22
Reference grease quantity G_{ref}	27 cm ³
Preload class A G_A	430 N
Static axial stiffness, preload class A	131 N/ μ m
Preload class B G_B	860 N
Static axial stiffness, preload class B	179 N/ μ m
Preload class C G_C	1720 N
Static axial stiffness, preload class C	251 N/ μ m
Preload class D G_D	3440 N
Static axial stiffness, preload class D	364 N/ μ m



BEARING USA CORP.

Calculation factor f	1.17
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1
Calculation factor f_0	15.7
Mass bearing	2.13 kg