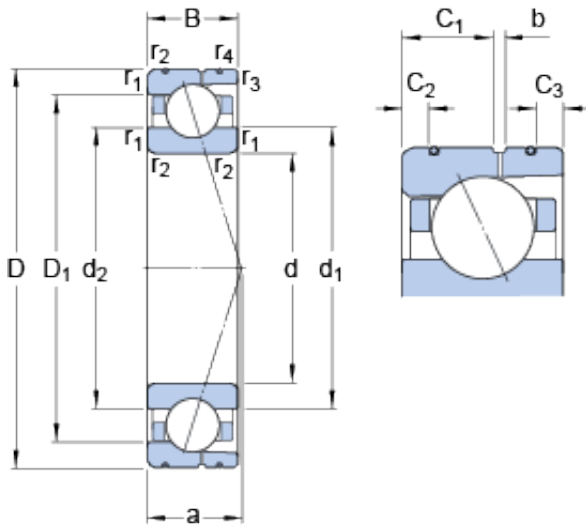




AMERICAN BEARING MFG.CORP.



105 mm x 145 mm x 20 mm SKF 71921
CD/P4AL angular contact ball bearings

Bearing No. 71921 CD/P4AL

71921 CD/P4AL Bearing 2D drawings and 3D CAD models

Size	145x105x20 mm
Bore Diameter	145 mm
Outer Diameter	105 mm
Width	20 mm
d	105 mm
D	145 mm
B	20 mm
d ₁	117.3 mm
d ₂	117.3 mm
D ₁	132.7 mm
b	2.3 mm
C ₁	10.9 mm
C ₂	3.9 mm
C ₃	3.2 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	26.8 mm
d _a - min.	111 mm
d _b - min.	111 mm
D _a - max.	139 mm
D _b - max.	141 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	120.6 mm



AMERICAN BEARING MFG.CORP.

Basic dynamic load rating - C	61.8 kN
Basic static load rating - C ₀	69.5 kN
Fatigue load limit - P _u	2.6 kN
Limiting speed for grease lubrication	8500 r/min
Limiting speed for oil lubrication	14000 mm/min
Ball - D _w	12.7 mm
Ball - z	27
G _{ref}	11.1 cm ³
Calculation factor - f ₀	16.4
Preload class A - G _A	230 N
Preload class B - G _B	460 N
Preload class C - G _C	920 N
Preload class D - G _D	1840 N
Calculation factor - f	1.25
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.04
Calculation factor - f _{2C}	1.09
Calculation factor - f _{2D}	1.15
Calculation factor - f _{HC}	1
Preload class A	110 N/micron
Preload class B	151 N/micron
Preload class C	215 N/micron
Preload class D	316 N/micron
d ₁	117.3 mm
d ₂	117.3 mm
D ₁	132.7 mm
C ₁	10.9 mm



AMERICAN BEARING MFG.CORP.

C_2	3.9 mm
C_3	3.2 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	111 mm
d_b min.	111 mm
D_a max.	139 mm
D_b max.	141 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	120.6 mm
Basic dynamic load rating C	61.8 kN
Basic static load rating C_0	69.5 kN
Fatigue load limit P_u	2.6 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	27
Reference grease quantity G_{ref}	11.1 cm ³
Preload class A G_A	230 N
Static axial stiffness, preload class A	110 N/ μ m
Preload class B G_B	460 N
Static axial stiffness, preload class B	151 N/ μ m
Preload class C G_C	920 N
Static axial stiffness, preload class C	215 N/ μ m
Preload class D G_D	1840 N
Static axial stiffness, preload class D	316 N/ μ m



AMERICAN BEARING MFG.CORP.

Calculation factor f	1.25
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.09
Calculation factor f_{2D}	1.15
Calculation factor f_{HC}	1
Calculation factor f_0	16.4
Mass bearing	0.82 kg