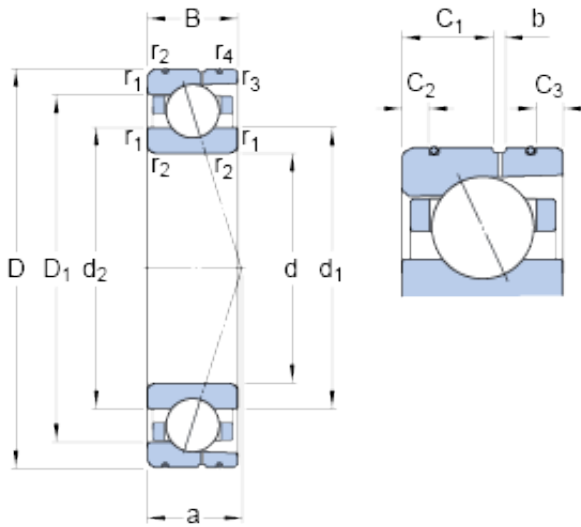




Bearing Rolamentos do Brasil Ltda.



95 mm x 145 mm x 24 mm SKF 7019 ACD/HCP4AL angular contact ball bearings

Bearing No. 7019 ACD/HCP4AL

7019 ACD/HCP4AL Bearing 2D drawings and 3D CAD models

Size	145x95x24 mm
Bore Diameter	145 mm
Outer Diameter	95 mm
Width	24 mm
d	95 mm
D	145 mm
B	24 mm
d ₁	110.4 mm
d ₂	110.4 mm
D ₁	129.6 mm
b	2.2 mm
C ₁	13.4 mm
C ₂	5.2 mm
C ₃	4.3 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
a	40.1 mm
d _a - min.	102 mm
d _b - min.	102 mm
D _a - max.	138 mm
D _b - max.	141 mm
r _a - max.	1.5 mm
r _b - max.	1 mm
d _n	113.7 mm



Bearing Rolamentos do Brasil Ltda.

Basic dynamic load rating - C	76.1 kN
Basic static load rating - C ₀	76.5 kN
Fatigue load limit - P _u	2.9 kN
Limiting speed for grease lubrication	10000 r/min
Limiting speed for oil lubrication	16000 mm/min
Ball - D _w	15.875 mm
Ball - z	21
G _{ref}	15.6 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	480 N
Preload class B - G _B	960 N
Preload class C - G _C	1920 N
Preload class D - G _D	3840 N
Calculation factor - f	1.15
Calculation factor - f ₁	0.99
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.02
Calculation factor - f _{2C}	1.05
Calculation factor - f _{2D}	1.08
Calculation factor - f _{HC}	1.02



Bearing Rolamentos do Brasil Ltda.

Preload class A	286 N/micron
Preload class B	374 N/micron
Preload class C	497 N/micron
Preload class D	673 N/micron
d_1	110.4 mm
d_2	110.4 mm
D_1	129.6 mm
C_1	13.4 mm
C_2	5.2 mm
C_3	4.3 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a min.	102 mm
d_b min.	102 mm
D_a max.	138 mm
D_b max.	141 mm
r_a max.	1.5 mm
r_b max.	1 mm
d_n	113.7 mm
Basic dynamic load rating C	76.1 kN
Basic static load rating C_0	76.5 kN
Fatigue load limit P_u	2.9 kN
Attainable speed for grease lubrication	10000 r/min
Attainable speed for oil-air lubrication	16000 r/min
Ball diameter D_w	15.875 mm
Number of balls z	21
Reference grease quantity G_{ref}	15.6 cm ³
Preload class A G_A	480 N
Static axial stiffness, preload class A	286 N/ μ m



Bearing Rolamentos do Brasil Ltda.

Preload class B G_B	960 N
Static axial stiffness, preload class B	374 N/ μ m
Preload class C G_C	1920 N
Static axial stiffness, preload class C	497 N/ μ m
Preload class D G_D	3840 N
Static axial stiffness, preload class D	673 N/ μ m
Calculation factor f	1.15
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1.02
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 kg