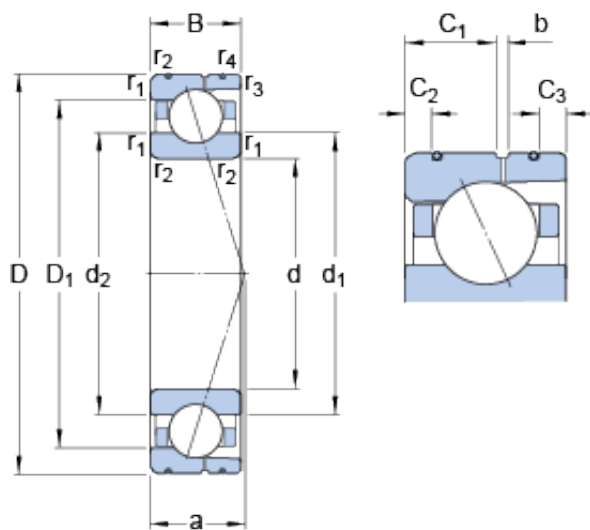




Bearing No. 7016 ACD/HCP4AL

b	2.8 mm
d	80 mm
a	35 mm
B	22 mm
D	125 mm
Ball - z	20
Size (mm)	125x80x22
Width (mm)	22
Mass bearing	0.71 kg
d ₂	93.9 mm
D ₁	111.1 mm
d _n	96.9 mm
C ₁	11.1 mm
C ₂	4.4 mm
C ₃	3.8 mm
C ₂	4.4 mm
C ₁	11.1 mm
d _n	96.9 mm
D ₁	111.1 mm
d ₂	93.9 mm
d ₁	93.9 mm
d ₁	93.9 mm
C ₃	3.8 mm
Bearing number	7016 ACD/HCP4AL
Preload class B	323 N/micron
Preload class A	247 N/micron
G _{ref}	11.1 cm3
Preload class D	581 N/micron
Preload class C	429 N/micron

Number of balls z	20
Bore Diameter (mm)	125
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	121 mm
D_a max.	119 mm
d_a min.	86 mm
d_b min.	86 mm
Outer Diameter (mm)	80
r_b - max.	0.6 mm
d_b - min.	86 mm
d_a - min.	86 mm
D_b - max.	121 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
D_a - max.	119 mm
r_a - max.	1 mm
Ball - D_w	14.288 mm
Calculation factor f	1.13
Calculation factor e	0.68
Calculation factor - f	1.13
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - e	0.68
Ball diameter D_w	14.288 mm
Basic dynamic load rating C	62.4 kN
Preload class A G_A	390 N
Preload class B G_B	780 N
Preload class C G_C	1560 N
Basic dynamic load rating - C	62.4 kN
Preload class D G_D	3120 N

Preload class C - G_C	1560 N
Preload class B - G_B	780 N
Preload class A - G_A	390 N
Preload class D - G_D	3120 N
Fatigue load limit P_u	2.45 kN
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 - Y_0	0.76
Calculation factor - Y_2	1.41
Calculation factor - Y_1	0.92
Calculation factor - f_1	0.99
Calculation factor - X_2	0.67
Fatigue load limit - P_u	2.4 kN
Limiting speed for oil lubrication	18000 mm/min
Calculation factor - f_{2B}	1.02
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2D}	1.08
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	12000 r/min
Basic static load rating C_0	58.5 kN
Static axial stiffness, preload class A	247 N/ μ m
Static axial stiffness,	581 N/ μ m

preload class D	
Static axial stiffness, preload class C	429 N/ μ m
Static axial stiffness, preload class B	323 N/ μ m
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil- air lubrication	18000 r/min
Basic static load rating - C_0	58.5 kN
Reference grease quantity G_{ref}	11.1 cm ³
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