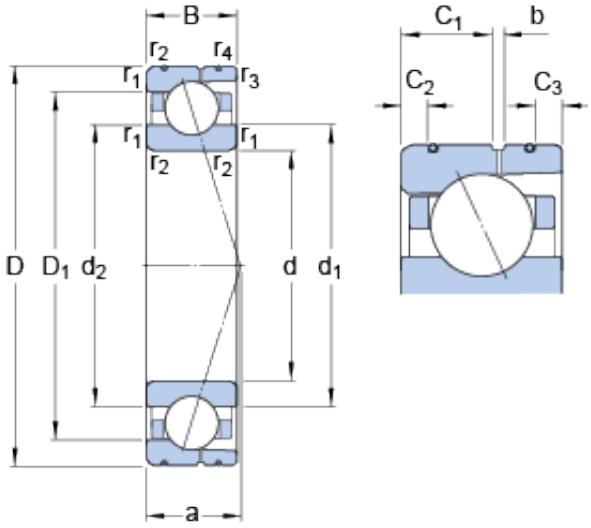
Loyal | 7017 ACD/HCP4AL



Bearing No. 7017 ACD/HCP4AL

b	2.8 mm
d	85 mm
a	36.2 mm
B	22 mm
D	130 mm
Ball - z	21
Size (mm)	130x85x22
Width (mm)	22
Mass bearing	0.74 kg
d_2	98.9 mm
D_1	116.1 mm
d_n	101.9 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	101.9 mm
D_1	116.1 mm
d_2	98.9 mm
d_1	98.9 mm
d_1	98.9 mm
C_3	3.8 mm
Bearing number	7017 ACD/HCP4AL
Preload class B	338 N/micron
Preload class A	258 N/micron
G_{ref}	11.7 cm3
Preload class D	609 N/micron
Preload class C	450 N/micron

Number of balls z	21
Bore Diameter (mm)	130
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	126 mm
D_a max.	124 mm
d_a min.	91 mm
d_b min.	91 mm
Outer Diameter (mm)	85
r_b - max.	0.6 mm
d_b - min.	91 mm
d_a - min.	91 mm
D_b - max.	126 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
D_a - max.	124 mm
r_a - max.	1 mm
Ball - D_w	14.288 mm
Calculation factor f	1.15
Calculation factor e	0.68
Calculation factor - f	1.15
$r_{1,2}$ - 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	63.7 kN
Preload class A G_A	400 N
Preload class B G_B	800 N
Preload class C G_C	1600 N
Basic dynamic load rating - C	63.7 kN
Preload class D G_D	3200 N

Preload class C - G_C	1600 N
Preload class B - G_B	800 N
Preload class A - G_A	400 N
Preload class D - G_D	3200 N
Fatigue load limit P_u	2.5 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	2.5 kN
Limiting speed for oil lubrication	17000 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	11000 r/min
Basic static load rating C_0	62 kN
Static axial stiffness, preload class A	258 N/µm
Static axial stiffness,	609 N/µm

preload class D	
Static axial stiffness, preload class C	450 N/µm
Static axial stiffness, preload class B	338 N/µm
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Basic static load rating - C_0	62 kN
Reference grease quantity G_{ref}	11.7 cm³
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