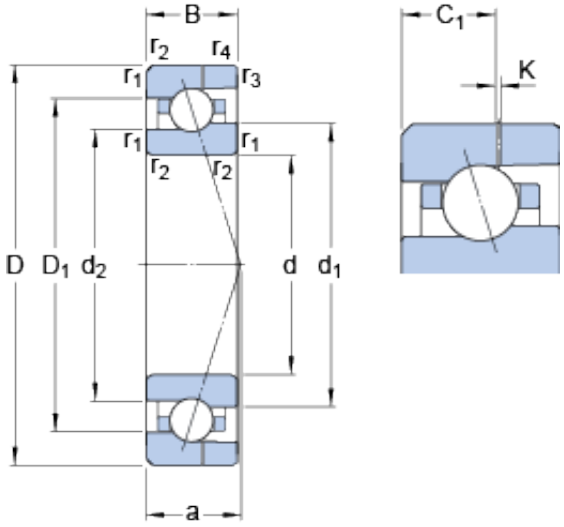
Loyal | 7000 ACE/HCP4AH



Bearing No. 7000 ACE/HCP4AH

K	0.5 mm
a	8.3 mm
d	10 mm
D	26 mm
B	8 mm
Ball - z	11
Size (mm)	26x10x8
Width (mm)	8
Mass bearing	0.017 kg
d_n	16.5 mm
D_1	20.45 mm
d_1	15.6 mm
C_1	4.75 mm
D_1	20.45 mm
d_2	14.5 mm
C_1	4.75 mm
d_1	15.6 mm
d_n	16.5 mm
d_2	14.5 mm
Bearing number	7000 ACE/HCP4AH
Preload class A	34 N/micron
Preload class B	52 N/micron
Preload class C	68 N/micron
G_{ref}	0.28 cm3
Number of balls z	11
Bore Diameter (mm)	26
r_b max.	0.3 mm
r_a max.	0.3 mm
D_b max.	23.6 mm

D_a max.	24 mm
d_a min.	12 mm
d_b min.	12 mm
Outer Diameter (mm)	10
r_a - max.	0.3 mm
$r_{3,4}$ min.	0.3 mm
D_a - max.	24 mm
d_b - min.	12 mm
$r_{1,2}$ min.	0.3 mm
Ball - D_w	3.969 mm
r_b - max.	0.3 mm
D_b - max.	23.6 mm
Calculation factor f	1.03
Calculation factor e	0.68
d_a - min.	12 mm
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.3 mm
Calculation factor - e	0.68
Ball diameter D_w	3.969 mm
Basic dynamic load rating C	2.86 kN
Preload class A G_A	26 N
Preload class B G_B	80 N
Preload class C G_C	160 N
Basic dynamic load rating - C	2.9 kN
Preload class B - G_B	80 N
Preload class C - G_C	160 N
Preload class A - G_A	26 N
Fatigue load limit P_u	0.048 kN
Calculation factor f_1	0.99

Calculation factor f_{2C}	1.06
Calculation factor f_{2B}	1.03
Calculation factor f_{HC}	1.01
Calculation factor f_{2A}	1
Calculation factor - f_1	0.99
Limiting speed for oil lubrication	150000 mm/min
Fatigue load limit - P_u	0.048 kN
Calculation factor - Y_0	0.76
Calculation factor - Y_1	0.92
Calculation factor - X_2	0.67
Calculation factor - Y_2	1.41
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.06
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	98000 r/min
Basic static load rating C_0	1.14 kN
Static axial stiffness, preload class C	68 N/µm
Attainable speed for grease lubrication	98000 r/min
Static axial stiffness, preload class B	52 N/µm
Static axial stiffness, preload class A	34 N/µm
Attainable speed for oil-air lubrication	150000 r/min
Basic static load rating - C_0	1.1 kN
Reference grease	0.28 cm³

quantity G_{ref}	
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