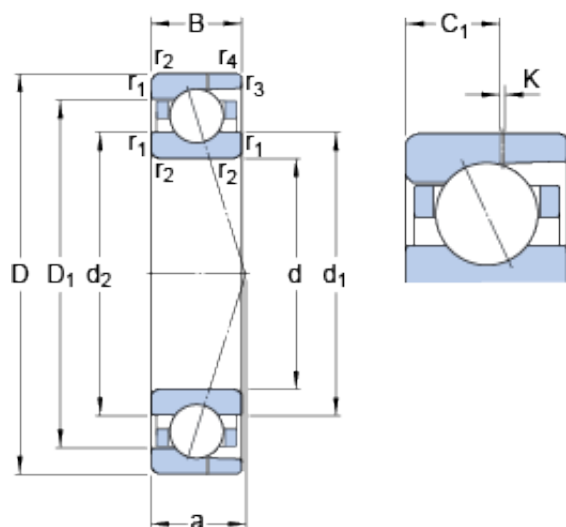




Bearing No. 7007 CD/HCP4AH

K	0.5 mm
a	13.6 mm
d	35 mm
D	62 mm
B	14 mm
Ball - z	16
Size (mm)	62x35x14
Width (mm)	14
Mass bearing	0.13 kg
d_n	45.3 mm
D_1	53.3 mm
d_1	43.7 mm
C_1	8.4 mm
D_1	53.3 mm
d_2	43.7 mm
C_1	8.4 mm
d_1	43.7 mm
d_n	45.3 mm
d_2	43.7 mm
Bearing number	7007 CD/HCP4AH
Preload class A	39 N/micron
Preload class D	100 N/micron
Preload class B	52 N/micron
Preload class C	71 N/micron
G_{ref}	1.98 cm ³
Number of balls z	16
r_b max.	0.3 mm
r_a max.	1 mm
D_b max.	60 mm

D_a max.	57.4 mm
d_b min.	39.6 mm
d_a min.	39.6 mm
Bore Diameter (mm)	62
Outer Diameter (mm)	35
d_b - min.	39.6 mm
r_b - max.	0.3 mm
$r_{1,2}$ min.	1 mm
d_a - min.	39.6 mm
Calculation factor f	1.06
r_a - max.	1 mm
$r_{3,4}$ min.	0.3 mm
D_a - max.	57.4 mm
Ball - D_w	7.938 mm
D_b - max.	60 mm
Calculation factor - f	1.06
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	1 mm
Ball diameter D_w	7.938 mm
Basic dynamic load rating C	15.6 kN
Preload class D G_D	480 N
Preload class A G_A	60 N
Preload class C G_C	240 N
Preload class B G_B	120 N
Basic dynamic load rating - C	15.6 kN
Preload class A - G_A	60 N
Preload class B - G_B	120 N
Preload class C - G_C	240 N
Preload class D - G_D	480 N
Fatigue load limit P_u	0.4 kN

Calculation factor f_1	1
Calculation factor f_0	9.7
Calculation factor f_{2D}	1.09
Calculation factor - f	1
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.02
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Limiting speed for oil lubrication	43000 mm/min
Fatigue load limit - P_u	0.4 kN
Calculation factor - f_0	9.7
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Limiting speed for grease lubrication	28000 r/min
Basic static load rating C_0	9.5 kN
Static axial stiffness, preload class B	52 N/ μ m
Static axial stiffness, preload class C	71 N/ μ m
Static axial stiffness, preload class A	39 N/ μ m
Static axial stiffness, preload class D	100 N/ μ m
Attainable speed for grease lubrication	28000 r/min
Attainable speed for oil-air lubrication	43000 r/min

Basic static load rating - C_0	9.5 kN
Reference grease quantity G_{ref}	1.98 cm ³