



Bearing No. 7030 ACD/HCP4AH1

K	0.6 mm
a	61.4 mm
d	150 mm
D	225 mm
B	35 mm
Ball - z	22
Size (mm)	225x150x35
Width (mm)	35
Mass bearing	3.44 kg
d_n	178.2 mm
D_1	201.9 mm
d_1	173.1 mm
C_1	9.3 mm
D_1	201.9 mm
d_2	173.1 mm
C_1	9.3 mm
d_1	173.1 mm
d_n	178.2 mm
d_2	173.1 mm
Bearing number	7030 ACD/HCP4AH1
Preload class B	562 N/micron
Preload class A	430 N/micron
Preload class D	1009 N/micron
G_{ref}	54 cm ³
Preload class C	745 N/micron
Number of balls z	22
Bore Diameter (mm)	225
r_b max.	1 mm
r_a max.	2 mm

D_b max.	220 mm
D_a max.	214 mm
d_a min.	161 mm
d_b min.	161 mm
Outer Diameter (mm)	150
r_a - max.	2 mm
D_a - max.	214 mm
d_b - min.	161 mm
d_a - min.	161 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
Ball - D_w	23.812 mm
r_b - max.	1 mm
D_b - max.	220 mm
Calculation factor f	1.16
Calculation factor e	0.68
Calculation factor - f	1.16
$r_{1,2}$ - min.	2.1 mm
$r_{3,4}$ - min.	1 mm
Calculation factor - e	0.68
Ball diameter D_w	23.812 mm
Basic dynamic load rating C	163 kN
Preload class A G_A	1000 N
Preload class B G_B	2000 N
Preload class C G_C	4000 N
Basic dynamic load rating - C	163 kN
Preload class D G_D	8000 N
Preload class B - G_B	2000 N
Preload class A - G_A	1000 N
Preload class D - G_D	8000 N

Preload class C - G_C	4000 N
Fatigue load limit P_u	5.6 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_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Limiting speed for oil lubrication	10000 mm/min
Fatigue load limit - P_u	5.6 kN
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	6700 r/min
Basic static load rating C_0	180 kN
Static axial stiffness, preload class A	430 N/ μ m
Static axial stiffness, preload class D	1009 N/ μ m
Static axial stiffness, preload class C	745 N/ μ m
Static axial stiffness,	562 N/ μ m

preload class B	
Attainable speed for grease lubrication	6700 r/min
Basic static load rating - C_0	180 kN
Attainable speed for oil-air lubrication	10000 r/min
Reference grease quantity G_{ref}	54 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