



Bearing No. 7030 ACD/HCP4AL

b	2.8 mm
d	150 mm
a	61.4 mm
B	35 mm
D	225 mm
Ball - z	22
Size (mm)	225x150x35
Width (mm)	35
Mass bearing	3.44 kg
d <sub>2</sub>	173.1 mm
D <sub>1</sub>	201.9 mm
d <sub>n</sub>	178.2 mm
C <sub>1</sub>	19.2 mm
C <sub>2</sub>	7.1 mm
C <sub>3</sub>	5.6 mm
C <sub>2</sub>	7.1 mm
C <sub>1</sub>	19.2 mm
d <sub>n</sub>	178.2 mm
D <sub>1</sub>	201.9 mm
d <sub>2</sub>	173.1 mm
d <sub>1</sub>	173.1 mm
d <sub>1</sub>	173.1 mm
C <sub>3</sub>	5.6 mm
Bearing number	7030 ACD/HCP4AL
Preload class B	562 N/micron
Preload class A	430 N/micron
G <sub>ref</sub>	54 cm <sup>3</sup>
Preload class D	1009 N/micron
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
$r_b$ - max.	1 mm
$d_b$ - min.	161 mm
$d_a$ - min.	161 mm
$D_b$ - max.	220 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
$D_a$ - max.	214 mm
$r_a$ - max.	2 mm
Ball - $D_w$	23.812 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 C - $G_C$	4000 N
Preload class B - $G_B$	2000 N
Preload class A - $G_A$	1000 N
Preload class D - $G_D$	8000 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 - $Y_0$	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 - $P_u$	5.6 kN
Limiting speed for oil lubrication	10000 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	6700 r/min
Basic static load rating $C_0$	180 kN
Static axial stiffness, preload class A	430 N/ $\mu$ m
Static axial stiffness,	1009 N/ $\mu$ m

preload class D	
Static axial stiffness, preload class C	745 N/ $\mu$ m
Static axial stiffness, preload class B	562 N/ $\mu$ m
Attainable speed for grease lubrication	6700 r/min
Attainable speed for oil-air lubrication	10000 r/min
Basic static load rating - $C_0$	180 kN
Reference grease quantity $G_{ref}$	54 cm <sup>3</sup>
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