



Bearing No. 7030 CD/HCP4A

D	225 mm
d	150 mm
B	35 mm
a	42.7 mm
Ball - z	22
Size (mm)	225x150x35
Width (mm)	35
Mass bearing	3.44 kg
d <sub>n</sub>	178.2 mm
d <sub>n</sub>	178.2 mm
D <sub>1</sub>	201.9 mm
d <sub>1</sub>	173.1 mm
d <sub>2</sub>	173.1 mm
D <sub>1</sub>	201.9 mm
d <sub>2</sub>	173.1 mm
d <sub>1</sub>	173.1 mm
Bearing number	7030 CD/HCP4A
Preload class A	180 N/micron
G <sub>ref</sub>	54 cm <sup>3</sup>
Preload class C	344 N/micron
Preload class D	498 N/micron
Preload class B	245 N/micron
Number of balls z	22
r <sub>b</sub> max.	1 mm
r <sub>a</sub> max.	2 mm
D <sub>b</sub> max.	220 mm
D <sub>a</sub> max.	214 mm
d <sub>a</sub> min.	161 mm
Bore Diameter (mm)	225

$d_b$ min.	161 mm
Outer Diameter (mm)	150
$d_a$ - min.	161 mm
$r_a$ - max.	2 mm
$r_{1,2}$ min.	2.1 mm
Calculation factor f	1.16
$D_b$ - max.	220 mm
$r_{3,4}$ min.	1 mm
$D_a$ - max.	214 mm
Ball - $D_w$	23.812 mm
$r_b$ - max.	1 mm
$d_b$ - min.	161 mm
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2.1 mm
Calculation factor - f	1.16
Basic dynamic load rating C	172 kN
Ball diameter $D_w$	23.812 mm
Preload class C $G_C$	2600 N
Preload class D $G_D$	5200 N
Preload class B $G_B$	1300 N
Preload class A $G_A$	650 N
Basic dynamic load rating - C	172 kN
Preload class D - $G_D$	5200 N
Preload class C - $G_C$	2600 N
Preload class B - $G_B$	1300 N
Preload class A - $G_A$	650 N
Calculation factor $f_1$	1
Calculation factor $f_0$	15.8
Fatigue load limit $P_u$	5.85 kN
Calculation factor $f_{HC}$	1.02

Calculation factor $f_{2D}$	1.09
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2A}$	1
Calculation factor - $f$	1
Fatigue load limit - $P_u$	5.8 kN
Limiting speed for oil lubrication	11000 mm/min
Calculation factor - $f_0$	15.8
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{HC}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2D}$	1.09
Limiting speed for grease lubrication	7000 r/min
Basic static load rating $C_0$	190 kN
Static axial stiffness, preload class D	498 N/ $\mu$ m
Static axial stiffness, preload class B	245 N/ $\mu$ m
Static axial stiffness, preload class A	180 N/ $\mu$ m
Attainable speed for grease lubrication	7000 r/min
Static axial stiffness, preload class C	344 N/ $\mu$ m
Basic static load rating - $C_0$	190 kN
Attainable speed for oil-air lubrication	11000 r/min
Reference grease quantity $G_{ref}$	54 cm <sup>3</sup>

