



Bearing No. 7022 CD/HCP4AL

b	2.6 mm
d	110 mm
a	32.9 mm
B	28 mm
D	170 mm
Ball - z	20
Size (mm)	170x110x28
Width (mm)	28
Mass bearing	1.63 kg
d <sub>2</sub>	128.5 mm
D <sub>1</sub>	151.5 mm
d <sub>n</sub>	132.6 mm
C <sub>1</sub>	15.1 mm
C <sub>2</sub>	6.2 mm
C <sub>3</sub>	5.4 mm
C <sub>2</sub>	6.2 mm
C <sub>1</sub>	15.1 mm
d <sub>n</sub>	132.6 mm
D <sub>1</sub>	151.5 mm
d <sub>2</sub>	128.5 mm
d <sub>1</sub>	128.5 mm
d <sub>1</sub>	128.5 mm
C <sub>3</sub>	5.4 mm
Bearing number	7022 CD/HCP4AL
Preload class B	184 N/micron
G <sub>ref</sub>	25.5 cm3
Preload class C	258 N/micron
Preload class D	374 N/micron
Preload class A	135 N/micron

Number of balls z	20
$d_a$ min.	119 mm
$D_a$ max.	161 mm
$d_b$ min.	119 mm
$D_b$ max.	165 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
Bore Diameter (mm)	170
Outer Diameter (mm)	110
$r_{1,2}$ min.	2 mm
$d_a$ - min.	119 mm
$d_b$ - min.	119 mm
$D_a$ - max.	161 mm
Calculation factor f	1.14
$r_b$ - max.	1 mm
$r_{3,4}$ min.	1 mm
$D_b$ - max.	165 mm
Ball - $D_w$	19.05 mm
$r_a$ - max.	2 mm
Calculation factor - f	1.14
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Ball diameter $D_w$	19.05 mm
Basic dynamic load rating C	111 kN
Preload class B $G_B$	840 N
Preload class A $G_A$	420 N
Preload class D $G_D$	3360 N
Preload class C $G_C$	1680 N
Basic dynamic load rating - C	111 kN
Preload class B - $G_B$	840 N

Preload class C - $G_C$	1680 N
Preload class D - $G_D$	3360 N
Preload class A - $G_A$	420 N
Calculation factor $f_1$	1
Calculation factor $f_0$	15.5
Fatigue load limit $P_u$	3.9 kN
Calculation factor $f_{HC}$	1.02
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2A}$	1
Calculation factor - $f$	1
Calculation factor $f_{2C}$	1.05
Fatigue load limit - $P_u$	3.9 kN
Limiting speed for oil lubrication	14000 mm/min
Calculation factor - $f_0$	15.5
Calculation factor - $f_{HC}$	1.02
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Limiting speed for grease lubrication	9500 r/min
Basic static load rating $C_0$	108 kN
Static axial stiffness, preload class B	184 N/ $\mu$ m
Static axial stiffness, preload class A	135 N/ $\mu$ m
Static axial stiffness, preload class C	258 N/ $\mu$ m
Static axial stiffness,	374 N/ $\mu$ m

preload class D	
Attainable speed for grease lubrication	9500 r/min
Basic static load rating - $C_0$	108 kN
Attainable speed for oil-air lubrication	14000 r/min
Reference grease quantity $G_{ref}$	25.5 cm <sup>3</sup>