



Bearing No. 7022 CD/HCP4AH1

K	0.5 mm
a	32.9 mm
d	110 mm
D	170 mm
B	28 mm
Ball - z	20
Size (mm)	170x110x28
Width (mm)	28
Mass bearing	1.63 kg
d_n	132.6 mm
D_1	151.5 mm
d_1	128.5 mm
C_1	7.41 mm
D_1	151.5 mm
d_2	128.5 mm
C_1	7.41 mm
d_1	128.5 mm
d_n	132.6 mm
d_2	128.5 mm
Bearing number	7022 CD/HCP4AH1
Preload class A	135 N/micron
Preload class D	374 N/micron
Preload class B	184 N/micron
Preload class C	258 N/micron
G_{ref}	25.5 cm ³
Number of balls z	20
r_b max.	1 mm
r_a max.	2 mm
D_b max.	165 mm

D_a max.	161 mm
d_b min.	119 mm
d_a min.	119 mm
Bore Diameter (mm)	170
Outer Diameter (mm)	110
d_b - min.	119 mm
r_b - max.	1 mm
$r_{1,2}$ min.	2 mm
d_a - min.	119 mm
Calculation factor f	1.14
r_a - max.	2 mm
$r_{3,4}$ min.	1 mm
D_a - max.	161 mm
Ball - D_w	19.05 mm
D_b - max.	165 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 D G_D	3360 N
Preload class A G_A	420 N
Preload class C G_C	1680 N
Preload class B G_B	840 N
Basic dynamic load rating - C	111 kN
Preload class A - G_A	420 N
Preload class B - G_B	840 N
Preload class C - G_C	1680 N
Preload class D - G_D	3360 N
Fatigue load limit P_u	3.9 kN

Calculation factor f_1	1
Calculation factor f_0	15.5
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	14000 mm/min
Fatigue load limit - P_u	3.9 kN
Calculation factor - f_0	15.5
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	9500 r/min
Basic static load rating C_0	108 kN
Static axial stiffness, preload class B	184 N/ μ m
Static axial stiffness, preload class C	258 N/ μ m
Static axial stiffness, preload class A	135 N/ μ m
Static axial stiffness, preload class D	374 N/ μ m
Attainable speed for grease lubrication	9500 r/min
Attainable speed for oil-air lubrication	14000 r/min

Basic static load rating - C_0	108 kN
Reference grease quantity G_{ref}	25.5 cm ³