



Bearing No. 7022 CD/P4AH1

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	1.97 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/P4AH1
Preload class A	122 N/micron
Preload class D	337 N/micron
Preload class B	166 N/micron
Preload class C	232 N/micron
$G_{ref}$	25.5 cm <sup>3</sup>
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
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2A}$	1
Limiting speed for oil lubrication	12000 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
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.02
Limiting speed for grease lubrication	7500 r/min
Basic static load rating $C_0$	108 kN
Static axial stiffness, preload class B	166 N/ $\mu$ m
Static axial stiffness, preload class C	232 N/ $\mu$ m
Static axial stiffness, preload class A	122 N/ $\mu$ m
Static axial stiffness, preload class D	337 N/ $\mu$ m
Attainable speed for grease lubrication	7500 r/min
Attainable speed for oil-air lubrication	12000 r/min

Basic static load rating - $C_0$	108 kN
Reference grease quantity $G_{ref}$	25.5 cm <sup>3</sup>