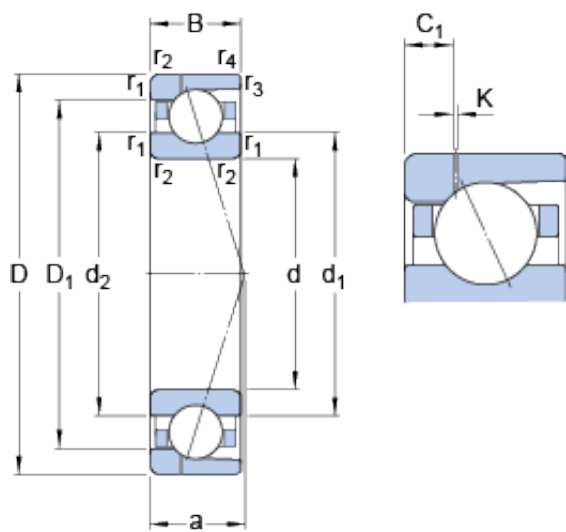




Bearing No. 7024 CD/P4AH1

K	0.5 mm
a	34.2 mm
d	120 mm
D	180 mm
B	28 mm
Ball - z	22
Size (mm)	180x120x28
Width (mm)	28
Mass bearing	2.13 kg
d_n	142.6 mm
D_1	161.5 mm
d_1	138.5 mm
C_1	7.41 mm
D_1	161.5 mm
d_2	138.5 mm
C_1	7.41 mm
d_1	138.5 mm
d_n	142.6 mm
d_2	138.5 mm
Bearing number	7024 CD/P4AH1
Preload class A	131 N/micron
Preload class D	364 N/micron
Preload class B	179 N/micron
Preload class C	251 N/micron
G_{ref}	27 cm3
Number of balls z	22
r_b max.	1 mm
r_a max.	2 mm
D_b max.	175 mm

D_a max.	171 mm
d_b min.	129 mm
d_a min.	129 mm
Bore Diameter (mm)	180
Outer Diameter (mm)	120
d_b - min.	129 mm
r_b - max.	1 mm
$r_{1,2}$ min.	2 mm
d_a - min.	129 mm
Calculation factor f	1.17
r_a - max.	2 mm
$r_{3,4}$ min.	1 mm
D_a - max.	171 mm
Ball - D_w	19.05 mm
D_b - max.	175 mm
Calculation factor - f	1.17
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Ball diameter D_w	19.05 mm
Basic dynamic load rating C	114 kN
Preload class D G_D	3440 N
Preload class A G_A	430 N
Preload class C G_C	1720 N
Preload class B G_B	860 N
Basic dynamic load rating - C	114 kN
Preload class A - G_A	430 N
Preload class B - G_B	860 N
Preload class C - G_C	1720 N
Preload class D - G_D	3440 N
Fatigue load limit P_u	4.25 kN

Calculation factor f_1	1
Calculation factor f_0	15.7
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	11000 mm/min
Fatigue load limit - P_u	4.2 kN
Calculation factor - f_0	15.7
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	7000 r/min
Basic static load rating C_0	122 kN
Static axial stiffness, preload class B	179 N/μm
Static axial stiffness, preload class C	251 N/μm
Static axial stiffness, preload class A	131 N/μm
Static axial stiffness, preload class D	364 N/μm
Attainable speed for grease lubrication	7000 r/min
Attainable speed for oil-air lubrication	11000 r/min

Basic static load rating - C_0	122 kN
Reference grease quantity G_{ref}	27 cm ³