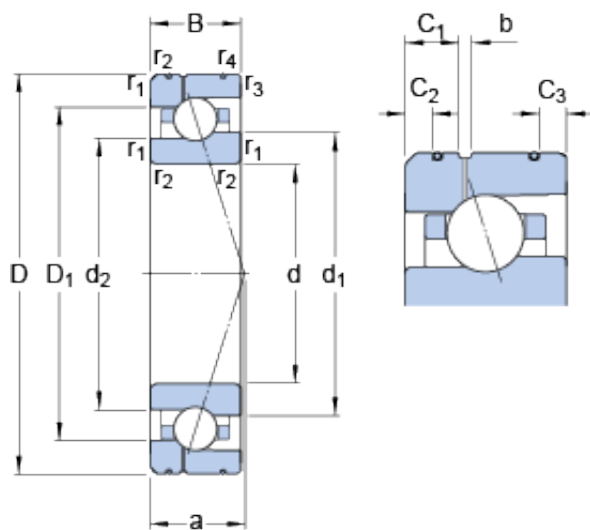




Bearing No. 7022 ACE/HCP4AL1

b	1.8 mm
d	110 mm
a	46.9 mm
B	28 mm
D	170 mm
Ball - z	30
Size (mm)	170x110x28
Width (mm)	28
Mass bearing	1.93 kg
d ₂	129.2 mm
D ₁	147.61 mm
d _n	135.4 mm
C ₁	9.05 mm
C ₂	5.4 mm
C ₃	5.4 mm
C ₂	5.4 mm
C ₁	9.05 mm
d _n	135.4 mm
D ₁	147.61 mm
d ₂	129.2 mm
d ₁	132.38 mm
d ₁	132.38 mm
C ₃	5.4 mm
Bearing number	7022 ACE/HCP4AL1
Preload class A	263 N/micron
Preload class B	395 N/micron
G _{ref}	23 cm3
Preload class C	518 N/micron
Number of balls z	30

Bore Diameter (mm)	170
r_b max.	1 mm
r_a max.	2 mm
D_b max.	164.4 mm
D_a max.	161.2 mm
d_a min.	118.8 mm
d_b min.	118.8 mm
Outer Diameter (mm)	110
r_b - max.	1 mm
$r_{3,4}$ min.	1 mm
d_b - min.	118.8 mm
D_a - max.	161.2 mm
D_b - max.	164.4 mm
$r_{1,2}$ min.	2 mm
d_a - min.	118.8 mm
r_a - max.	2 mm
Ball - D_w	12.7 mm
Calculation factor f	1.1
Calculation factor e	0.68
$r_{3,4}$ - min.	1 mm
Calculation factor - f	1.1
$r_{1,2}$ - min.	2 mm
Calculation factor - e	0.68
Ball diameter D_w	12.7 mm
Basic dynamic load rating C	44.9 kN
Preload class C G_C	2420 N
Basic dynamic load rating - C	44.9 kN
Preload class B G_B	1210 N
Preload class A G_A	400 N
Preload class C - G_C	2420 N

Preload class A - G_A	400 N
Preload class B - G_B	1210 N
Calculation factor f_1	0.99
Fatigue load limit P_u	1.53 kN
Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.06
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	17500 mm/min
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	1.5 kN
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.06
Calculation factor - f_{2B}	1.03
Limiting speed for grease lubrication	11500 r/min
Basic static load rating C_0	42.5 kN
Static axial stiffness, preload class A	263 N/ μ m
Static axial stiffness, preload class C	518 N/ μ m
Static axial stiffness, preload class B	395 N/ μ m
Attainable speed for grease lubrication	11500 r/min

Basic static load rating - C_0	42.5 kN
Attainable speed for oil-air lubrication	17500 r/min
Reference grease quantity G_{ref}	23 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67