



SKF 7024 CB/HCP4AL Angular Contact Ball Bearings, Super-Precision

Bearing No. 7024 CB/HCP4AL

7024 CB/HCP4AL Bearing 2D drawings and 3D CAD models

d	120 mm
D	180 mm
B	28 mm
d ₁	143.2 mm
d ₂	140.8 mm
D ₂	161.9 mm
b	2.2 mm
C ₁	15.1 mm
C ₂	6.3 mm
C ₃	4.3 mm
r _{1,2} min.	2 mm
r _{3,4} min.	1 mm
a	34.2 mm
d _a min.	129 mm
d _b min.	129 mm
D _a max.	171 mm
D _b max.	175.4 mm
r _a max.	2 mm
r _b max.	1 mm
d _n	144.7 mm
Basic dynamic load rating C	50.7 kN
Basic static load rating C ₀	63 kN
Fatigue load limit P _u	1.34 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air	17000 r/min



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Lubrication	
Ball diameter D_w	11.112 mm
Number of balls z	33
Reference grease quantity G_{ref}	23.69 cm ³
Preload class A G_A	130 N
Static axial stiffness, preload class A	84 N/ μ m
Preload class B G_B	260 N
Static axial stiffness, preload class B	110 N/ μ m
Preload class C G_C	780 N
Static axial stiffness, preload class C	173 N/ μ m
Calculation factor f	1.08
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
Calculation factor f_0	9.8
Mass bearing	2.24 kg