



S7200 CD/HCP4A Bearing 2D drawings and 3D CAD models

SKF S7200 CD/HCP4A angular contact ball bearings

Bearing No. S7200 CD/HCP4A

Size	30x10x9 mm
Bore Diameter	30 mm
Outer Diameter	10 mm
Width	9 mm
d	10 mm
D	30 mm
B	9 mm
d ₁	17.3 mm
d ₂	17.3 mm
D ₂	24.3 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	7.3 mm
d _a - min.	14.2 mm
d _a - max.	16.7 mm
d _b - min.	14.2 mm
d _b - max.	16.7 mm
D _a - max.	25.8 mm
D _b - max.	27.6 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
Basic dynamic load rating - C	4.5 kN
Basic static load rating - C ₀	1.9 kN
Fatigue load limit - P _u	0.08 kN



Limiting speed for grease lubrication	70000 r/min
Ball - D_w	4.762 mm
Ball - z	10
Calculation factor - f_0	8.8
Preload class A - G_A	17 N
Preload class B - G_B	34 N
Preload class C - G_C	68 N
Preload class D - G_D	136 N
Calculation factor - f	1.02
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.06
Calculation factor - f_{HC}	1.01
Preload class A	16 N/micron
Preload class B	21 N/micron
Preload class C	29 N/micron
Preload class D	41 N/micron
d_1	17.3 mm
d_2	17.3 mm
D_2	24.3 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	14.2 mm
d_a max.	16.7 mm
d_b min.	14.2 mm
d_b max.	16.7 mm
D_a max.	25.8 mm
D_b max.	27.6 mm



r_a max.	0.6 mm
r_b max.	0.3 mm
Basic dynamic load rating C	4.49 kN
Basic static load rating C_0	1.93 kN
Fatigue load limit P_u	0.08 kN
Attainable speed for grease lubrication	70000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	10
Preload class A G_A	17 N
Static axial stiffness, preload class A	16 N/ μ m
Preload class B G_B	34 N
Static axial stiffness, preload class B	21 N/ μ m
Preload class C G_C	68 N
Static axial stiffness, preload class C	29 N/ μ m
Preload class D G_D	136 N
Static axial stiffness, preload class D	41 N/ μ m
Calculation factor f	1.02
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
Calculation factor f_0	8.8
Mass bearing	0.029 kg