



JieFei Bearing Co., Ltd



105 mm x 130 mm x 13 mm SKF 71821 CD/P4
angular contact ball bearings

Bearing No. 71821 CD/P4

71821 CD/P4 Bearing 2D drawings and 3D CAD models

Size	130x105x13 mm
Bore Diameter	130 mm
Outer Diameter	105 mm
Width	13 mm
d	105 mm
D	130 mm
B	13 mm
d ₁	113.2 mm
d ₂	113.2 mm
D ₁	122 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	22.3 mm
d _a - min.	109.6 mm
d _b - min.	109.6 mm
D _a - max.	125.4 mm
D _b - max.	128 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	114.6 mm
Basic dynamic load rating - C	22.9 kN
Basic static load rating - C ₀	30 kN
Fatigue load limit - P _u	1.2 kN
Limiting speed for grease	9000 r/min



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Lubrication	
Limiting speed for oil lubrication	14000 mm/min
Ball - D_w	7.144 mm
Ball - z	35
G_{ref}	4 cm ³
Calculation factor - f_0	17.4
Preload class A - G_A	130 N
Preload class B - G_B	390 N
Preload class C - G_C	780 N
Calculation factor - f	1.44
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.09
Calculation factor - f_{2C}	1.16
Calculation factor - f_{HC}	1
Preload class A	96 N/micron
Preload class B	167 N/micron
Preload class C	250 N/micron
d_1	113.2 mm
d_2	113.2 mm
D_1	122 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	109.6 mm
d_b min.	109.6 mm
D_a max.	125.4 mm
D_b max.	128 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	114.6 mm



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Basic dynamic load rating C	22.9 kN
Basic static load rating C_0	30 kN
Fatigue load limit P_u	1.18 kN
Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	35
Reference grease quantity G_{ref}	4 cm ³
Preload class A G_A	130 N
Static axial stiffness, preload class A	96 N/μm
Preload class B G_B	390 N
Static axial stiffness, preload class B	167 N/μm
Preload class C G_C	780 N
Static axial stiffness, preload class C	250 N/μm
Calculation factor f	1.44
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.09
Calculation factor f_{2C}	1.16
Calculation factor f_{HC}	1
Calculation factor f_0	17.4
Mass bearing	0.32 kg