



KOYO PRECISION AXLE CORP.



85 mm x 120 mm x 18 mm SKF 71917 CD/HCP4AH1 angular contact ball bearings

Bearing No. 71917 CD/HCP4AH1

71917 CD/HCP4AH1 Bearing 2D drawings and 3D CAD models

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| Size | 120x85x18 mm |
| Bore Diameter | 120 mm |
| Outer Diameter | 85 mm |
| Width | 18 mm |
| d | 85 mm |
| D | 120 mm |
| B | 18 mm |
| d ₁ | 95.8 mm |
| d ₂ | 95.8 mm |
| D ₁ | 109.2 mm |
| K | 0.5 mm |
| C ₁ | 5.2 mm |
| r _{1,2} - min. | 1.1 mm |
| r _{3,4} - min. | 0.6 mm |
| a | 22.8 mm |
| d _a - min. | 91 mm |
| d _b - min. | 91 mm |
| D _a - max. | 114 mm |
| D _b - max. | 116 mm |
| r _a - max. | 1 mm |
| r _b - max. | 0.6 mm |
| d _n | 98.6 mm |
| Basic dynamic load rating - C | 46.2 kN |
| Basic static load rating - C ₀ | 48 kN |



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| Fatigue load limit - P_u | 2 kN |
| Limiting speed for grease lubrication | 14000 r/min |
| Limiting speed for oil lubrication | 20000 mm/min |
| Ball - D_w | 11.112 mm |
| Ball - z | 25 |
| G_{ref} | 7.2 cm ³ |
| Calculation factor - f_0 | 16.2 |
| Preload class A - G_A | 170 N |
| Preload class B - G_B | 340 N |
| Preload class C - G_C | 680 N |
| Preload class D - G_D | 1360 N |
| Calculation factor - f | 1.2 |
| Calculation factor - f | 1 |
| Calculation factor - f_{2A} | 1 |
| Calculation factor - f_{2B} | 1.07 |
| Calculation factor - f_{2C} | 1.12 |
| Calculation factor - f_{2D} | 1.18 |
| Calculation factor - f_{HC} | 1.04 |
| Preload class A | 99 N/micron |
| Preload class B | 135 N/micron |
| Preload class C | 191 N/micron |
| Preload class D | 279 N/micron |
| d_1 | 95.8 mm |
| d_2 | 95.8 mm |
| D_1 | 109.2 mm |
| C_1 | 5.2 mm |
| $r_{1,2}$ min. | 1.1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| d_a min. | 91 mm |



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| d_b min. | 91 mm |
| D_a max. | 114 mm |
| D_b max. | 116 mm |
| r_a max. | 1 mm |
| r_b max. | 0.6 mm |
| d_n | 98.6 mm |
| Basic dynamic load rating C | 46.2 kN |
| Basic static load rating C_0 | 48 kN |
| Fatigue load limit P_u | 2.04 kN |
| Attainable speed for grease lubrication | 14000 r/min |
| Attainable speed for oil-air lubrication | 20000 r/min |
| Ball diameter D_w | 11.112 mm |
| Number of balls z | 25 |
| Reference grease quantity G_{ref} | 7.2 cm ³ |
| Preload class A G_A | 170 N |
| Static axial stiffness, preload class A | 99 N/ μ m |
| Preload class B G_B | 340 N |
| Static axial stiffness, preload class B | 135 N/ μ m |
| Preload class C G_C | 680 N |
| Static axial stiffness, preload class C | 191 N/ μ m |
| Preload class D G_D | 1360 N |
| Static axial stiffness, preload class D | 279 N/ μ m |
| Calculation factor f | 1.2 |
| Calculation factor f_1 | 1 |
| Calculation factor f_{2A} | 1 |
| Calculation factor f_{2B} | 1.07 |
| Calculation factor f_{2C} | 1.12 |
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| Calculation factor f_{2D} | 1.18 |
| Calculation factor f_{HC} | 1.04 |
| Calculation factor f_0 | 16.2 |
| Mass bearing | 0.45 kg |