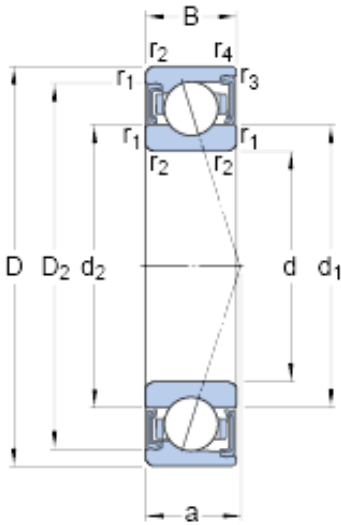




NTN Bearing Rolamentos do Brasil Ltda.



50 mm x 72 mm x 12 mm skf S71910
 CD/HCP4A Super-precision Angular contact ball bearings

Bearing No. S71910 CD/HCP4A

S71910 CD/HCP4A Bearing 2D drawings and 3D CAD models

| | |
|---|-------------|
| Size | 72x50x12 mm |
| Bore Diameter | 72 mm |
| Outer Diameter | 50 mm |
| Width | 12 mm |
| d | 50 mm |
| D | 72 mm |
| B | 12 mm |
| d ₁ | 57.1 mm |
| d ₂ | 57.1 mm |
| D ₂ | 67.12 mm |
| r _{1,2} - min. | 0.6 mm |
| r _{3,4} - min. | 0.3 mm |
| a | 14.2 mm |
| d _a - min. | 53.2 mm |
| d _a - max. | 56.6 mm |
| d _b - min. | 53.2 mm |
| d _b - max. | 56.6 mm |
| D _a - max. | 68.8 mm |
| D _b - max. | 70.6 mm |
| r _a - max. | 0.6 mm |
| r _b - max. | 0.3 mm |
| Basic dynamic load rating - C | 13.5 kN |
| Basic static load rating - C ₀ | 10.4 kN |
| | |



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| | |
|---------------------------------------|--------------|
| Fatigue load limit - P_u | 0.44 kN |
| Limiting speed for grease lubrication | 22000 r/min |
| Ball - D_w | 6.35 mm |
| Ball - z | 25 |
| Calculation factor - f_0 | 10.7 |
| Preload class A - G_A | 50 N |
| Preload class B - G_B | 100 N |
| Preload class C - G_C | 200 N |
| Preload class D - G_D | 400 N |
| Calculation factor - f | 1.13 |
| 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 | 47 N/micron |
| Preload class B | 63 N/micron |
| Preload class C | 87 N/micron |
| Preload class D | 122 N/micron |
| d_1 | 57.1 mm |
| d_2 | 57.1 mm |
| D_2 | 67.12 mm |
| $r_{1,2}$ min. | 0.6 mm |
| $r_{3,4}$ min. | 0.3 mm |
| d_a min. | 53.2 mm |
| d_a max. | 56.6 mm |
| d_b min. | 53.2 mm |
| d_b max. | 56.6 mm |
| | |



NTN Bearing Rolamentos do Brasil Ltda.

| | |
|---|----------------|
| D_a max. | 68.8 mm |
| D_b max. | 70.6 mm |
| r_a max. | 0.6 mm |
| r_b max. | 0.3 mm |
| Basic dynamic load rating C | 13.5 kN |
| Basic static load rating C_0 | 10.4 kN |
| Fatigue load limit P_u | 0.44 kN |
| Attainable speed for grease lubrication | 22000 r/min |
| Ball diameter D_w | 6.35 mm |
| Number of balls z | 25 |
| Preload class A G_A | 50 N |
| Static axial stiffness, preload class A | 47 N/ μ m |
| Preload class B G_B | 100 N |
| Static axial stiffness, preload class B | 63 N/ μ m |
| Preload class C G_C | 200 N |
| Static axial stiffness, preload class C | 87 N/ μ m |
| Preload class D G_D | 400 N |
| Static axial stiffness, preload class D | 122 N/ μ m |
| Calculation factor f | 1.13 |
| Calculation factor f_1 | 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 |
| Calculation factor f_0 | 10.7 |
| Mass bearing | 0.12 kg |