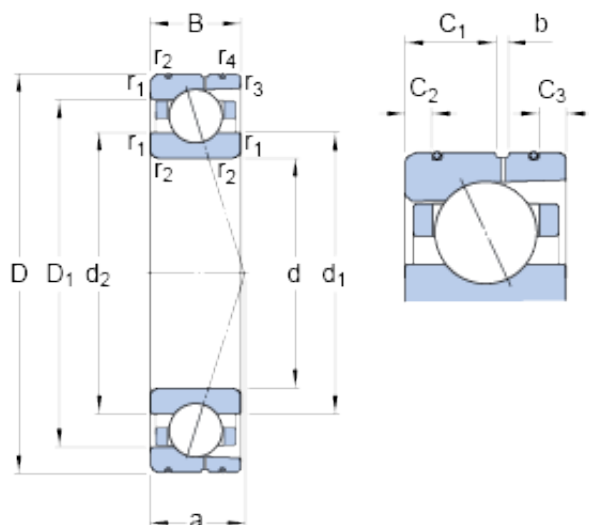




NACHI BEARINGS TRAINING INDUSTRY



150 mm x 210 mm x 28 mm SKF 71930 CD/HCP4AL angular contact ball bearings

Bearing No. 71930 CD/HCP4AL

71930 CD/HCP4AL Bearing 2D drawings and 3D CAD models

| | |
|-------------------------|---------------|
| Size | 210x150x28 mm |
| Bore Diameter | 210 mm |
| Outer Diameter | 150 mm |
| Width | 28 mm |
| d | 150 mm |
| D | 210 mm |
| B | 28 mm |
| d ₁ | 168.5 mm |
| d ₂ | 168.5 mm |
| D ₁ | 191.5 mm |
| b | 2.6 mm |
| C ₁ | 15.6 mm |
| C ₂ | 6.6 mm |
| C ₃ | 5.6 mm |
| r _{1,2} - min. | 2 mm |
| r _{3,4} - min. | 1 mm |
| a | 38.2 mm |
| d _a - min. | 159 mm |
| d _b - min. | 159 mm |
| D _a - max. | 201 mm |
| D _b - max. | 205 mm |
| r _a - max. | 2 mm |
| r _b - max. | 1 mm |
| d _n | 173.5 mm |
| | |



NACHI BEARINGS TRAINING INDUSTRY

| | |
|---------------------------------------|--------------------|
| Basic dynamic load rating - C | 125 kN |
| Basic static load rating - C_0 | 146 kN |
| Fatigue load limit - P_u | 4.8 kN |
| Limiting speed for grease lubrication | 7500 r/min |
| Limiting speed for oil lubrication | 11000 mm/min |
| Ball - D_w | 19.05 mm |
| Ball - z | 26 |
| G_{ref} | 33 cm ³ |
| Calculation factor - f_0 | 16.2 |
| Preload class A - G_A | 470 N |
| Preload class B - G_B | 940 N |
| Preload class C - G_C | 1880 N |
| Preload class D - G_D | 3760 N |
| Calculation factor - f | 1.24 |
| 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 | 170 N/micron |
| Preload class B | 234 N/micron |
| Preload class C | 330 N/micron |
| Preload class D | 483 N/micron |
| d_1 | 168.5 mm |
| d_2 | 168.5 mm |
| D_1 | 191.5 mm |
| C_1 | 15.6 mm |



NACHI BEARINGS TRAINING INDUSTRY

| | |
|--|--------------------|
| C_2 | 6.6 mm |
| C_3 | 5.6 mm |
| $r_{1,2}$ min. | 2 mm |
| $r_{3,4}$ min. | 1 mm |
| d_a min. | 159 mm |
| d_b min. | 159 mm |
| D_a max. | 201 mm |
| D_b max. | 205 mm |
| r_a max. | 2 mm |
| r_b max. | 1 mm |
| d_n | 173.5 mm |
| Basic dynamic load rating C | 114 kN |
| Basic static load rating C_0 | 132 kN |
| Fatigue load limit P_u | 4.15 kN |
| Attainable speed for grease lubrication | 7500 r/min |
| Attainable speed for oil-air lubrication | 11000 r/min |
| Ball diameter D_w | 19.05 mm |
| Number of balls z | 23 |
| Reference grease quantity G_{ref} | 35 cm ³ |
| Preload class A G_A | 470 N |
| Static axial stiffness, preload class A | 158 N/ μ m |
| Preload class B G_B | 940 N |
| Static axial stiffness, preload class B | 216 N/ μ m |
| Preload class C G_C | 1880 N |
| Static axial stiffness, preload class C | 306 N/ μ m |
| Preload class D G_D | 3760 N |
| Static axial stiffness, preload class D | 450 N/ μ m |
| | |



NACHI BEARINGS TRAINING INDUSTRY

| | |
|-----------------------------|---------|
| Calculation factor f | 1.24 |
| 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 | 16.2 |
| Mass bearing | 2.08 kg |