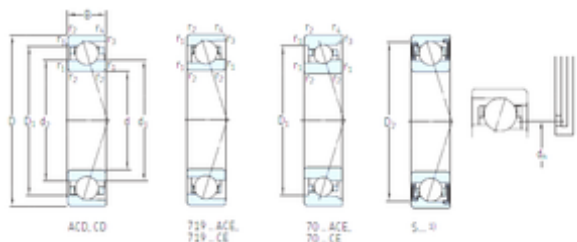


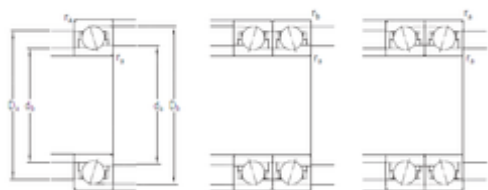


# ISOSTATIC BEARING LIMITED



## S71902 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S71902 CD/HCP4A



S71902 CD/HCP4A Bearing 2D drawings and 3D CAD models

|                               |            |
|-------------------------------|------------|
| Size                          | 15x28x7 mm |
| Bore Diameter                 | 15 mm      |
| Outer Diameter                | 28 mm      |
| Width                         | 7 mm       |
| d                             | 15 mm      |
| D                             | 28 mm      |
| B                             | 7 mm       |
| C                             | 7 mm       |
| d1                            | 19,1 mm    |
| d2                            | 19,1 mm    |
| r1 min.                       | 0,3 mm     |
| r2 min.                       | 0,3 mm     |
| r3 min.                       | 0,2 mm     |
| r4 min.                       | 0,2 mm     |
| D1                            | 23,7 mm    |
| D2                            | 25,8 mm    |
| da min.                       | 17 mm      |
| Da max.                       | 26 mm      |
| db min                        | 17 mm      |
| ra max.                       | 0,3 mm     |
| rb max.                       | 0,2 mm     |
| dh                            | 20,1 mm    |
| Db max                        | 26,6 mm    |
| Weight                        | 0,014 Kg   |
| Basic dynamic load rating (C) | 3,97 kN    |



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|   |               |
|---|---------------|
| Basic static load rating (C0)           | 1,9 kN        |
| (Grease) Lubrication Speed              | 70 000 r/min  |
| (Oil) Lubrication Speed                 | 100 000 r/min |
| Fatigue load limit (Pu)                 | 0,08          |
| d <sub>1</sub>                          | 18.9 mm       |
| d <sub>2</sub>                          | 18.9 mm       |
| D <sub>2</sub>                          | 25.8 mm       |
| r <sub>1,2</sub> min.                   | 0.3 mm        |
| r <sub>3,4</sub> min.                   | 0.2 mm        |
| a                                       | 6.4 mm        |
| d <sub>a</sub> min.                     | 17 mm         |
| d <sub>a</sub> max.                     | 18.5 mm       |
| d <sub>b</sub> min.                     | 17 mm         |
| d <sub>b</sub> max.                     | 18.5 mm       |
| D <sub>a</sub> max.                     | 26 mm         |
| D <sub>b</sub> max.                     | 26.6 mm       |
| r <sub>a</sub> max.                     | 0.3 mm        |
| r <sub>b</sub> max.                     | 0.2 mm        |
| Basic dynamic load rating C             | 3.97 kN       |
| Basic static load rating C <sub>0</sub> | 1.9 kN        |
| Fatigue load limit P <sub>u</sub>       | 0.08 kN       |
| Attainable speed for grease lubrication | 70000 r/min   |
| Ball diameter D <sub>w</sub>            | 3.969 mm      |
| Number of balls z                       | 13            |
| Preload class A G <sub>A</sub>          | 15 N          |
| Static axial stiffness, preload class A | 18 N/ μ m     |
| Preload class B G <sub>B</sub>          | 30 N          |
| Static axial stiffness, preload class B | 23 N/ μ m     |
| Preload class C G <sub>C</sub>          | 60 N          |
| Static axial stiffness, preload         | 32 N/ μ m     |



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|   |               |
|---|---------------|
| class C                                 |               |
| Preload class D $G_D$                   | 120 N         |
| Static axial stiffness, preload class D | 45 N/ $\mu$ m |
| Calculation factor $f$                  | 1.05          |
| 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 $f_0$                | 9.6           |
| Mass bearing                            | 0.014 kg      |