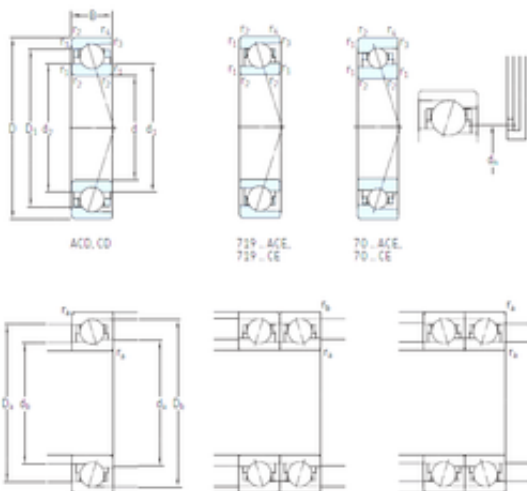




# UNF BRAINGS SALES JAPAN CO.,LTD.



10 mm x 30 mm x 9 mm SKF 7200 CD/HCP4A  
Reduced Torque from Optimized plan exactness  
Bearings

Bearing No. 7200 CD/HCP4A

|                           |            |
|---------------------------|------------|
| Size                      | 10x30x9 mm |
| Bore Diameter             | 10 mm      |
| Outer Diameter            | 30 mm      |
| Width                     | 9 mm       |
| d                         | 10 mm      |
| D                         | 30 mm      |
| B                         | 9 mm       |
| C                         | 9 mm       |
| d1                        | 17,3 mm    |
| d2                        | 17,3 mm    |
| r1 min.                   | 0,6 mm     |
| r2 min.                   | 0,6 mm     |
| r3 min.                   | 0,3 mm     |
| r4 min.                   | 0,3 mm     |
| D1                        | 23,1 mm    |
| D2                        | 24,3 mm    |
| da min.                   | 14,2 mm    |
| Da max.                   | 25,8 mm    |
| db min                    | 14,2 mm    |
| ra max.                   | 0,6 mm     |
| rb max.                   | 0,3 mm     |
| dh                        | 18,3 mm    |
| Db max                    | 27,6 mm    |
| Weight                    | 0,029 Kg   |
| Basic dynamic load rating | 4,49 kN    |

7200 CD/HCP4A Bearing 2D drawings and 3D CAD models



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|  |                       |
|--|-----------------------|
| (C)  |                       |
| Basic static load rating (C <sub>0</sub> ) | 1,93 kN               |
| (Grease) Lubrication Speed                 | 70 000 r/min          |
| (Oil) Lubrication Speed                    | 100 000 r/min         |
| Fatigue load limit (P <sub>u</sub> )       | 0,08                  |
| d <sub>1</sub>                             | 17.3 mm               |
| d <sub>2</sub>                             | 17.3 mm               |
| D <sub>1</sub>                             | 23.1 mm               |
| r <sub>1,2</sub> min.                      | 0.6 mm                |
| r <sub>3,4</sub> min.                      | 0.3 mm                |
| a  | 7.3 mm                |
| d <sub>a</sub> min.                        | 14.2 mm               |
| d <sub>b</sub> min.                        | 14.2 mm               |
| D <sub>a</sub> max.                        | 25.8 mm               |
| D <sub>b</sub> max.                        | 27.6 mm               |
| r <sub>a</sub> max.                        | 0.6 mm                |
| r <sub>b</sub> max.                        | 0.3 mm                |
| d <sub>n</sub>                             | 18.3 mm               |
| Basic dynamic load rating C                | 4.49 kN               |
| Basic static load rating C <sub>0</sub>    | 1.93 kN               |
| Fatigue load limit P <sub>u</sub>          | 0.08 kN               |
| Attainable speed for grease lubrication    | 70000 r/min           |
| Attainable speed for oil-air lubrication   | 100000 r/min          |
| Ball diameter D <sub>w</sub>               | 4.762 mm              |
| Number of balls z                          | 10                    |
| Reference grease quantity G <sub>ref</sub> | 0.357 cm <sup>3</sup> |
| Preload class A G <sub>A</sub>             | 17 N                  |
| Static axial stiffness, preload class A    | 16 N/ μ m             |
| Preload class B G <sub>B</sub>             | 34 N                  |
|  |                       |



## UNF BRAINGS SALES JAPAN CO.,LTD.

|   |               |
|---|---------------|
| Static axial stiffness, preload class B | 21 N/ $\mu$ m |
| Preload class C $G_C$                   | 68 N          |
| Static axial stiffness, preload class C | 29 N/ $\mu$ m |
| Preload class D $G_D$                   | 136 N         |
| Static axial stiffness, preload class D | 41 N/ $\mu$ m |
| Calculation factor $f$                  | 1.02          |
| Calculation factor $f_1$                | 1             |
| Calculation factor $f_{2A}$             | 1             |
| Calculation factor $f_{2B}$             | 1.01          |
| Calculation factor $f_{2C}$             | 1.03          |
| Calculation factor $f_{2D}$             | 1.06          |
| Calculation factor $f_{HC}$             | 1.01          |
| Calculation factor $f_0$                | 8.8           |
| Mass bearing                            | 0.029 kg      |