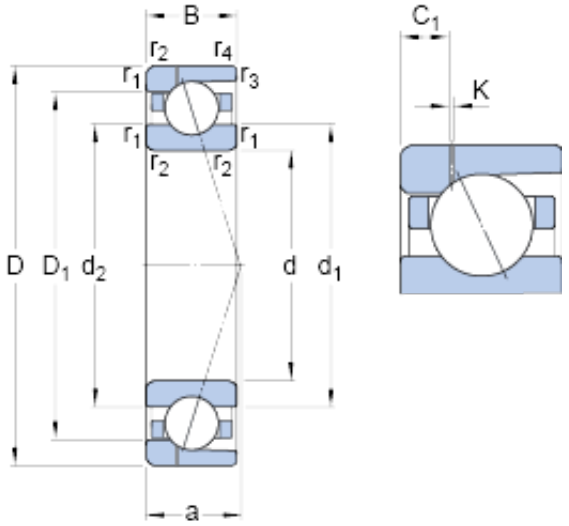
# BEARING PRECISION AXLE CORP.




**71918 CD/P4AH1 Bearing 2D drawings and 3D CAD models**

## 90 mm x 125 mm x 18 mm SKF 71918 CD/P4AH1 angular contact ball bearings

**Bearing No. 71918 CD/P4AH1**

| | |
|---|---|
| Size | 125x90x18 mm |
| Bore Diameter | 125 mm |
| Outer Diameter | 90 mm |
| Width | 18 mm |
| d | 90 mm |
| D | 125 mm |
| B | 18 mm |
| $d_1$ | 100.8 mm |
| $d_2$ | 100.8 mm |
| $D_1$ | 114.2 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 | 23.5 mm |
| $d_a$ - min. | 96 mm |
| $d_b$ - min. | 96 mm |
| $D_a$ - max. | 119 mm |
| $D_b$ - max. | 121 mm |
| $r_a$ - max. | 1 mm |
| $r_b$ - max. | 0.6 mm |
| $d_n$ | 103.3 mm |
| Basic dynamic load rating - C | 47.5 kN |
| Basic static load rating - $C_0$ | 51 kN |

| | |
|---|---|
| Fatigue load limit - $P_u$ | 2.1 kN |
| Limiting speed for grease lubrication | 9500 r/min |
| Limiting speed for oil lubrication | 16000 mm/min |
| Ball - $D_w$ | 11.112 mm |
| Ball - z | 26 |
| $G_{ref}$ | 7.5 cm3 |
| Calculation factor - $f_0$ | 16.3 |
| Preload class A - $G_A$ | 180 N |
| Preload class B - $G_B$ | 360 N |
| Preload class C - $G_C$ | 720 N |
| Preload class D - $G_D$ | 1440 N |
| Calculation factor - f | 1.23 |
| Calculation factor - f | 1 |
| Calculation factor - $f_{2A}$ | 1 |
| Calculation factor - $f_{2B}$ | 1.04 |
| Calculation factor - $f_{2C}$ | 1.09 |
| Calculation factor - $f_{2D}$ | 1.15 |
| Calculation factor - $f_{HC}$ | 1 |
| Preload class A | 94 N/micron |
| Preload class B | 129 N/micron |
| Preload class C | 183 N/micron |
| Preload class D | 268 N/micron |
| $d_1$ | 100.8 mm |
| $d_2$ | 100.8 mm |
| $D_1$ | 114.2 mm |
| $C_1$ | 5.2 mm |
| $r_{1,2}$ min. | 1.1 mm |
| $r_{3,4}$ min. | 0.6 mm |
| $d_a$ min. | 96 mm |

| | |
|---|---|
| $d_b$ min. | 96 mm |
| $D_a$ max. | 119 mm |
| $D_b$ max. | 121 mm |
| $r_a$ max. | 1 mm |
| $r_b$ max. | 0.6 mm |
| $d_n$ | 103.3 mm |
| Basic dynamic load rating C | 47.5 kN |
| Basic static load rating $C_0$ | 51 kN |
| Fatigue load limit $P_u$ | 2.08 kN |
| Attainable speed for grease lubrication | 9500 r/min |
| Attainable speed for oil-air lubrication | 16000 r/min |
| Ball diameter $D_w$ | 11.112 mm |
| Number of balls z | 26 |
| Reference grease quantity $G_{ref}$ | 7.5 $cm^3$ |
| Preload class A $G_A$ | 180 N |
| Static axial stiffness, preload class A | 94 N/ µ m |
| Preload class B $G_B$ | 360 N |
| Static axial stiffness, preload class B | 129 N/ µ m |
| Preload class C $G_C$ | 720 N |
| Static axial stiffness, preload class C | 183 N/ µ m |
| Preload class D $G_D$ | 1440 N |
| Static axial stiffness, preload class D | 268 N/ µ m |
| Calculation factor f | 1.23 |
| Calculation factor $f_1$ | 1 |
| Calculation factor $f_{2A}$ | 1 |
| Calculation factor $f_{2B}$ | 1.04 |
| Calculation factor $f_{2C}$ | 1.09 |
| | |

| | |
|---|---|
| Calculation factor $f_{2D}$ | 1.15 |
| Calculation factor $f_{HC}$ | 1 |
| Calculation factor $f_0$ | 16.3 |
| Mass bearing | 0.55 kg |