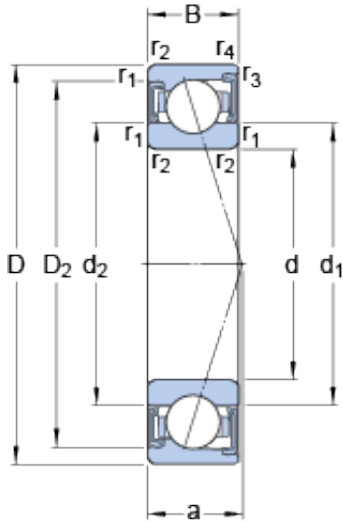




# BEARING PRECISION AXLE CORP.



## S71910 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S71910 CD/P4A

S71910 CD/P4A 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 <sub>1</sub>	57.1 mm
d <sub>2</sub>	57.1 mm
D <sub>2</sub>	67.12 mm
r <sub>1,2</sub> - min.	0.6 mm
r <sub>3,4</sub> - min.	0.3 mm
a	14.2 mm
d <sub>a</sub> - min.	53.2 mm
d <sub>a</sub> - max.	56.6 mm
d <sub>b</sub> - min.	53.2 mm
d <sub>b</sub> - max.	56.6 mm
D <sub>a</sub> - max.	68.8 mm
D <sub>b</sub> - max.	70.6 mm
r <sub>a</sub> - max.	0.6 mm
r <sub>b</sub> - max.	0.3 mm
Basic dynamic load rating - C	13.5 kN
Basic static load rating - C <sub>0</sub>	10.4 kN
Fatigue load limit - P <sub>u</sub>	0.44 kN



## BEARING PRECISION AXLE CORP.

Limiting speed for grease lubrication	17000 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 - $f_{2B}$	1.04
Calculation factor - $f_{2C}$	1.09
Calculation factor - $f_{2D}$	1.15
Calculation factor - $f_{HC}$	1
Preload class A	43 N/micron
Preload class B	57 N/micron
Preload class C	78 N/micron
Preload class D	110 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
$D_a$ max.	68.8 mm
$D_b$ max.	70.6 mm



## BEARING PRECISION AXLE CORP.

$r_a$ 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	17000 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	43 N/ $\mu$ m
Preload class B $G_B$	100 N
Static axial stiffness, preload class B	57 N/ $\mu$ m
Preload class C $G_C$	200 N
Static axial stiffness, preload class C	78 N/ $\mu$ m
Preload class D $G_D$	400 N
Static axial stiffness, preload class D	110 N/ $\mu$ m
Calculation factor f	1.13
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 $f_0$	10.7
Mass bearing	0.14 kg