



## Bearing Manufacturing of America



S71904 CD/HCP4A Bearing 2D drawings and 3D CAD models

20 mm x 37 mm x 9 mm 20 mm x 37 mm x 9 mm SKF S71904 CD/HCP4A angular contact ball bearings

Bearing No. S71904 CD/HCP4A

Size	37x20x9 mm
Bore Diameter	37 mm
Outer Diameter	20 mm
Width	9 mm
d	20 mm
D	37 mm
B	9 mm
d <sub>1</sub>	25.6 mm
d <sub>2</sub>	25.6 mm
D <sub>2</sub>	34.15 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	8.4 mm
d <sub>a</sub> - min.	22 mm
d <sub>a</sub> - max.	25.1 mm
d <sub>b</sub> - min.	22 mm
d <sub>b</sub> - max.	25.1 mm
D <sub>a</sub> - max.	35 mm
D <sub>b</sub> - max.	35.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
Basic dynamic load rating - C	6 kN
Basic static load rating - C <sub>0</sub>	3.2 kN



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Fatigue load limit - $P_u$	0.137 kN
Limiting speed for grease lubrication	53000 r/min
Ball - $D_w$	4.762 mm
Ball - $z$	15
Calculation factor - $f_0$	9.8
Preload class A - $G_A$	25 N
Preload class B - $G_B$	50 N
Preload class C - $G_C$	100 N
Preload class D - $G_D$	200 N
Calculation factor - $f$	1.05
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	24 N/micron
Preload class B	32 N/micron
Preload class C	44 N/micron
Preload class D	62 N/micron
$d_1$	25.6 mm
$d_2$	25.6 mm
$D_2$	34.15 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	22 mm
$d_a$ max.	25.1 mm
$d_b$ min.	22 mm
$d_b$ max.	25.1 mm



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$D_a$ max.	35 mm
$D_b$ max.	35.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
Basic dynamic load rating C	6.05 kN
Basic static load rating $C_0$	3.2 kN
Fatigue load limit $P_u$	0.137 kN
Attainable speed for grease lubrication	53000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	15
Preload class A $G_A$	25 N
Static axial stiffness, preload class A	24 N/ $\mu$ m
Preload class B $G_B$	50 N
Static axial stiffness, preload class B	32 N/ $\mu$ m
Preload class C $G_C$	100 N
Static axial stiffness, preload class C	44 N/ $\mu$ m
Preload class D $G_D$	200 N
Static axial stiffness, preload class D	62 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 $f_0$	9.8
Mass bearing	0.033 kg