



## San Driveshaft Co., Ltd.



### 40 mm x 52 mm x 7 mm SKF 71808 CD/HCP4 High Reliability Precision Bearings

Bearing No. 71808 CD/HCP4

71808 CD/HCP4 Bearing 2D drawings and 3D CAD models

Size	52x40x7 mm
Bore Diameter	52 mm
Outer Diameter	40 mm
Width	7 mm
d	40 mm
D	52 mm
B	7 mm
d <sub>1</sub>	44.1 mm
d <sub>2</sub>	44.1 mm
D <sub>1</sub>	48.1 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	9.7 mm
d <sub>a</sub> - min.	42 mm
d <sub>b</sub> - min.	42 mm
D <sub>a</sub> - max.	50 mm
D <sub>b</sub> - max.	51.2 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	44.5 mm
Basic dynamic load rating - C	4.9 kN
Basic static load rating - C <sub>0</sub>	4.9 kN
Fatigue load limit - P <sub>u</sub>	0.208 kN
Limiting speed for grease	30000 r/min



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Lubrication	
Limiting speed for oil lubrication	45000 mm/min
Ball - $D_w$	3.175 mm
Ball - $z$	29
$G_{ref}$	0.31 cm <sup>3</sup>
Calculation factor - $f_0$	17.2
Preload class A - $G_A$	26 N
Preload class B - $G_B$	78 N
Preload class C - $G_C$	155 N
Calculation factor - $f$	1.23
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.1
Calculation factor - $f_{2C}$	1.18
Calculation factor - $f_{HC}$	1.02
Preload class A	40 N/micron
Preload class B	68 N/micron
Preload class C	100 N/micron
$d_1$	44.1 mm
$d_2$	44.1 mm
$D_1$	48.1 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$d_a$ min.	42 mm
$d_b$ min.	42 mm
$D_a$ max.	50 mm
$D_b$ max.	51.2 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	44.5 mm



## San Driveshaft Co., Ltd.

Basic dynamic load rating C	4.88 kN
Basic static load rating $C_0$	4.9 kN
Fatigue load limit $P_u$	0.208 kN
Attainable speed for grease lubrication	30000 r/min
Attainable speed for oil-air lubrication	45000 r/min
Ball diameter $D_w$	3.175 mm
Number of balls z	29
Reference grease quantity $G_{ref}$	0.31 cm <sup>3</sup>
Preload class A $G_A$	26 N
Static axial stiffness, preload class A	40 N/μm
Preload class B $G_B$	78 N
Static axial stiffness, preload class B	68 N/μm
Preload class C $G_C$	155 N
Static axial stiffness, preload class C	100 N/μm
Calculation factor f	1.23
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.1
Calculation factor $f_{2C}$	1.18
Calculation factor $f_{HC}$	1.02
Calculation factor $f_0$	17.2
Mass bearing	0.029 kg