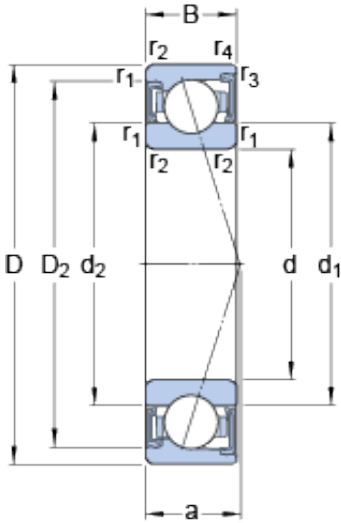




# NTN Bearing Driveshaft USA CORP.



## 70 mm x 100 mm x 16 mm SKF S71914 ACD/HCP4A Angular contact ball bearings

Bearing No. S71914 ACD/HCP4A

S71914 ACD/HCP4A Bearing 2D drawings and 3D CAD models

Size	100x70x16 mm
Bore Diameter	100 mm
Outer Diameter	70 mm
Width	16 mm
d	70 mm
D	100 mm
B	16 mm
d <sub>1</sub>	79.2 mm
d <sub>2</sub>	79.2 mm
D <sub>2</sub>	93.72 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	27.9 mm
d <sub>a</sub> - min.	74.6 mm
d <sub>a</sub> - max.	78.6 mm
d <sub>b</sub> - min.	74.6 mm
d <sub>b</sub> - max.	78.6 mm
D <sub>a</sub> - max.	95.4 mm
D <sub>b</sub> - max.	98 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
Basic dynamic load rating - C	32.5 kN
Basic static load rating - C <sub>0</sub>	32.5 kN
Fatigue load limit - P <sub>u</sub>	1.4 kN



## NTN Bearing Driveshaft USA CORP.

Limiting speed for grease lubrication	14000 r/min
Ball - $D_w$	9.525 mm
Ball - $z$	24
Calculation factor - $e$	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	200 N
Preload class B - $G_B$	400 N
Preload class C - $G_C$	800 N
Preload class D - $G_D$	1600 N
Calculation factor - $f$	1.19
Calculation factor - $f_1$	0.98
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.07
Calculation factor - $f_{2C}$	1.12
Calculation factor - $f_{2D}$	1.17
Calculation factor - $f_{HC}$	1.04
Preload class A	200 N/micron
Preload class B	261 N/micron
Preload class C	348 N/micron
Preload class D	475 N/micron
$d_1$	79.2 mm
$d_2$	79.2 mm
$D_2$	93.72 mm



## NTN Bearing Driveshaft USA CORP.

$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	74.6 mm
$d_a$ max.	78.6 mm
$d_b$ min.	74.6 mm
$d_b$ max.	78.6 mm
$D_a$ max.	95.4 mm
$D_b$ max.	98 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
Basic dynamic load rating C	32.5 kN
Basic static load rating $C_0$	32.5 kN
Fatigue load limit $P_u$	1.37 kN
Attainable speed for grease lubrication	14000 r/min
Ball diameter $D_w$	9.525 mm
Number of balls z	24
Preload class A $G_A$	200 N
Static axial stiffness, preload class A	200 N/ $\mu$ m
Preload class B $G_B$	400 N
Static axial stiffness, preload class B	261 N/ $\mu$ m
Preload class C $G_C$	800 N
Static axial stiffness, preload class C	348 N/ $\mu$ m
Preload class D $G_D$	1600 N
Static axial stiffness, preload class D	475 N/ $\mu$ m
Calculation factor f	1.19
Calculation factor $f_1$	0.98
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12



## NTN Bearing Driveshaft USA CORP.

Calculation factor $f_{2D}$	1.17
Calculation factor $f_{HC}$	1.04
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38
Calculation factor (single, tandem) $X_2$	0.41
Calculation factor (back-to-back, face-to-face) $Y_1$	0.92
Calculation factor (back-to-back, face-to-face) $Y_2$	1.41
Calculation factor (back-to-back, face-to-face) $Y_0$	0.76
Calculation factor (back-to-back, face-to-face) $X_2$	0.67
Mass bearing	0.29 kg