



# NTN BEARING-BOWER CORP.



S7000 CD/HCP4A Bearing 2D drawings and 3D CAD models

10 mm x 26 mm x 8 mm SKF S7000  
CD/HCP4A angular contact ball bearings

Bearing No. S7000 CD/HCP4A

Size	26x10x8 mm
Bore Diameter	26 mm
Outer Diameter	10 mm
Width	8 mm
d	10 mm
D	26 mm
B	8 mm
d <sub>1</sub>	15.1 mm
d <sub>2</sub>	15.1 mm
D <sub>2</sub>	23.5 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	6.5 mm
d <sub>a</sub> - min.	12 mm
d <sub>a</sub> - max.	14.7 mm
d <sub>b</sub> - min.	12 mm
d <sub>b</sub> - max.	14.7 mm
D <sub>a</sub> - max.	24 mm
D <sub>b</sub> - max.	24.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
Basic dynamic load rating - C	4.1 kN
Basic static load rating - C <sub>0</sub>	1.7 kN
Fatigue load limit - P <sub>u</sub>	0.071 kN



## NTN BEARING-BOWER CORP.

Limiting speed for grease lubrication	90000 r/min
Ball - $D_w$	4.762 mm
Ball - $z$	9
Calculation factor - $f_0$	8.3
Preload class A - $G_A$	15 N
Preload class B - $G_B$	30 N
Preload class C - $G_C$	60 N
Preload class D - $G_D$	120 N
Calculation factor - $f$	1.03
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{HC}$	1.02
Preload class A	14 N/micron
Preload class B	19 N/micron
Preload class C	26 N/micron
Preload class D	36 N/micron
$d_1$	15.1 mm
$d_2$	15.1 mm
$D_2$	23.5 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	12 mm
$d_a$ max.	14.7 mm
$d_b$ min.	12 mm
$d_b$ max.	14.7 mm
$D_a$ max.	24 mm
$D_b$ max.	24.6 mm



## NTN BEARING-BOWER CORP.

$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
Basic dynamic load rating C	4.1 kN
Basic static load rating $C_0$	1.66 kN
Fatigue load limit $P_u$	0.071 kN
Attainable speed for grease lubrication	90000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	9
Preload class A $G_A$	15 N
Static axial stiffness, preload class A	14 N/ $\mu$ m
Preload class B $G_B$	30 N
Static axial stiffness, preload class B	19 N/ $\mu$ m
Preload class C $G_C$	60 N
Static axial stiffness, preload class C	26 N/ $\mu$ m
Preload class D $G_D$	120 N
Static axial stiffness, preload class D	36 N/ $\mu$ m
Calculation factor f	1.03
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1.02
Calculation factor $f_0$	8.3
Mass bearing	0.017 kg