



## SKF 7008 CD/HCP4AH super-precision Angular contact ball bearings

Bearing No. 7008 CD/HCP4AH

7008 CD/HCP4AH Bearing 2D drawings and 3D CAD models

d	40 mm
D	68 mm
B	15 mm
d <sub>1</sub>	49.2 mm
d <sub>2</sub>	49.2 mm
D <sub>1</sub>	58.8 mm
K	0.5 mm
C <sub>1</sub>	8.95 mm
r <sub>1,2</sub> min.	1 mm
r <sub>3,4</sub> min.	0.3 mm
a	14.8 mm
d <sub>a</sub> min.	44.6 mm
d <sub>b</sub> min.	44.6 mm
D <sub>a</sub> max.	63.4 mm
D <sub>b</sub> max.	66 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.3 mm
d <sub>n</sub>	50.8 mm
Basic dynamic load rating C	16.8 kN
Basic static load rating C <sub>0</sub>	11 kN
Fatigue load limit P <sub>u</sub>	0.465 kN
Attainable speed for grease lubrication	24000 r/min
Attainable speed for oil-air lubrication	38000 r/min
Ball diameter D <sub>w</sub>	7.938 mm



## Hmg Industriebedarf GmbH

Number of balls z	18
Reference grease quantity $G_{\text{ref}}$	2.4 cm <sup>3</sup>
Preload class A $G_A$	60 N
Static axial stiffness, preload class A	42 N/ $\mu$ m
Preload class B $G_B$	120 N
Static axial stiffness, preload class B	56 N/ $\mu$ m
Preload class C $G_C$	240 N
Static axial stiffness, preload class C	76 N/ $\mu$ m
Preload class D $G_D$	480 N
Static axial stiffness, preload class D	107 N/ $\mu$ m
Calculation factor f	1.06
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 $f_0$	10
Mass bearing	0.17 kg