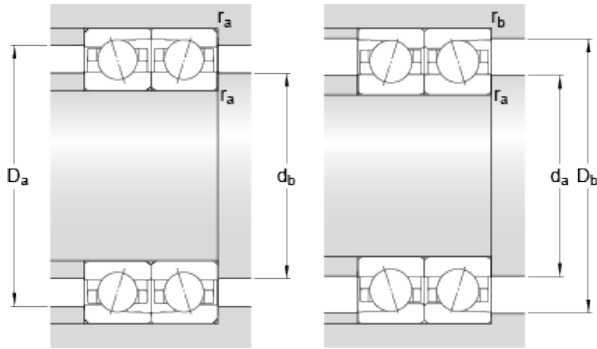




# GARLOCK BEARINGS LTD



## 7007 CDTP/HCP4B SKF High Speed Angular Contact Ball Bearings

Bearing No. 7007 CDTP/HCP4B

7007 CDTP/HCP4B Bearing 2D drawings and 3D CAD models

d	35 mm
D	62 mm
B	14 mm
d <sub>1</sub>	43.7 mm
d <sub>2</sub>	43.7 mm
D <sub>1</sub>	53.3 mm
r <sub>1,2</sub> min.	1 mm
r <sub>3,4</sub> min.	0.3 mm
a	13.6 mm
d <sub>a</sub> min.	39.6 mm
d <sub>b</sub> min.	39.6 mm
D <sub>a</sub> max.	57.4 mm
D <sub>b</sub> max.	60 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.3 mm
Basic dynamic load rating C	15.6 kN
Basic static load rating C <sub>0</sub>	9.5 kN
Fatigue load limit P <sub>u</sub>	0.4 kN
Attainable speed for grease lubrication	28000 r/min
Ball diameter D <sub>w</sub>	7.938 mm
Number of balls z	16
Reference grease quantity G <sub>ref</sub>	1.98 cm <sup>3</sup>
Preload class A G <sub>A</sub>	60 N
Static axial stiffness, preload	39 N/μm



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class A	
Preload class B $G_B$	120 N
Static axial stiffness, preload class B	52 N/ $\mu$ m
Preload class C $G_C$	240 N
Static axial stiffness, preload class C	71 N/ $\mu$ m
Preload class D $G_D$	480 N
Static axial stiffness, preload class D	100 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 $f_0$	9.7
Mass bearing	0.13 kg