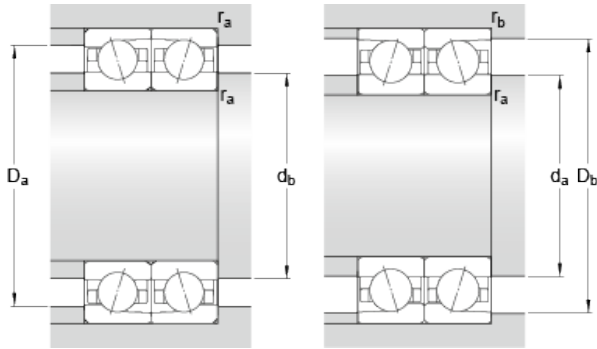




NTL BEARINGS LTD.



7014 CDTP/HCP4B SKF High Speed Angular Contact Ball Bearings

Bearing No. 7014 CDTP/HCP4B

7014 CDTP/HCP4B Bearing 2D drawings and 3D CAD models

d	70 mm
D	110 mm
B	20 mm
d ₁	82.3 mm
d ₂	82.3 mm
D ₁	97.7 mm
r _{1,2} min.	1.1 mm
r _{3,4} min.	0.6 mm
a	22.1 mm
d _a min.	76 mm
d _b min.	76 mm
D _a max.	104 mm
D _b max.	106 mm
r _a max.	1 mm
r _b max.	0.6 mm
Basic dynamic load rating C	52 kN
Basic static load rating C ₀	45.5 kN
Fatigue load limit P _u	1.93 kN
Attainable speed for grease lubrication	15000 r/min
Ball diameter D _w	12.7 mm
Number of balls z	19
Reference grease quantity G _{ref}	8.1 cm ³
Preload class A G _A	200 N
Static axial stiffness, preload	90 N/ μ m



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class A	
Preload class B G_B	400 N
Static axial stiffness, preload class B	123 N/ μ m
Preload class C G_C	800 N
Static axial stiffness, preload class C	173 N/ μ m
Preload class D G_D	1600 N
Static axial stiffness, preload class D	252 N/ μ m
Calculation factor f	1.12
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	15.5
Mass bearing	0.5 kg