



NTN BEARUNG DRIVESHAFT,INC.



71914 CD/HCP4A Bearing 2D drawings and 3D CAD models

70 mm x 100 mm x 16 mm SKF 71914 CD/HCP4A angular contact ball bearings

Bearing No. 71914 CD/HCP4A

Size	100x70x16 mm
Bore Diameter	100 mm
Outer Diameter	70 mm
Width	16 mm
d	70 mm
D	100 mm
B	16 mm
d ₁	79.2 mm
d ₂	79.2 mm
D ₁	90.8 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	19.4 mm
d _a - min.	74.6 mm
d _b - min.	74.6 mm
D _a - max.	95.4 mm
D _b - max.	98 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	81.7 mm
Basic dynamic load rating - C	34.5 kN
Basic static load rating - C ₀	34 kN
Fatigue load limit - P _u	1.4 kN
Limiting speed for grease	16000 r/min



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Lubrication	
Limiting speed for oil lubrication	24000 mm/min
Ball - D_w	9.525 mm
Ball - z	24
G_{ref}	4.5 cm ³
Calculation factor - f_0	16.2
Preload class A - G_A	130 N
Preload class B - G_B	260 N
Preload class C - G_C	520 N
Preload class D - G_D	1040 N
Calculation factor - f	1.19
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.18
Calculation factor - f_{HC}	1.04
Preload class A	84 N/micron
Preload class B	115 N/micron
Preload class C	164 N/micron
Preload class D	239 N/micron
d_1	79.2 mm
d_2	79.2 mm
D_1	90.8 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	74.6 mm
d_b min.	74.6 mm
D_a max.	95.4 mm



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D_b max.	98 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	81.7 mm
Basic dynamic load rating C	34.5 kN
Basic static load rating C_0	34 kN
Fatigue load limit P_u	1.43 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter D_w	9.525 mm
Number of balls z	24
Reference grease quantity G_{ref}	4.5 cm ³
Preload class A G_A	130 N
Static axial stiffness, preload class A	84 N/ μ m
Preload class B G_B	260 N
Static axial stiffness, preload class B	115 N/ μ m
Preload class C G_C	520 N
Static axial stiffness, preload class C	164 N/ μ m
Preload class D G_D	1040 N
Static axial stiffness, preload class D	239 N/ μ m
Calculation factor f	1.19
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.18
Calculation factor f_{HC}	1.04



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Calculation factor f_0	16.2
Mass bearing	0.28 kg