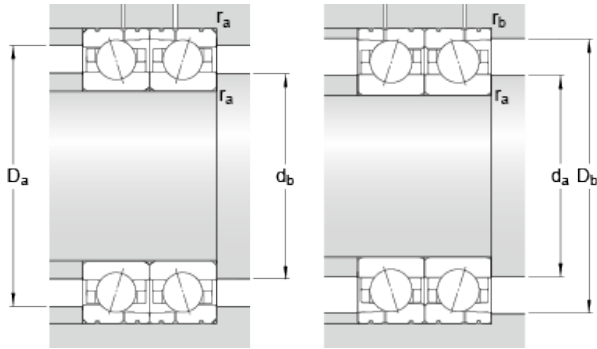




NTL BEARINGS LTD.



71914 ACD/HCP4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 71914 ACD/HCP4AL

71914 ACD/HCP4AL Bearing 2D drawings and 3D CAD models

d	70 mm
D	100 mm
B	16 mm
d ₁	79.2 mm
d ₂	79.2 mm
D ₁	90.8 mm
b	2 mm
C ₁	8.6 mm
C ₂	3.5 mm
C ₃	2.8 mm
r _{1,2} min.	1 mm
r _{3,4} min.	0.3 mm
a	27.9 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	32.5 kN
Basic static load rating C ₀	32.5 kN
Fatigue load limit P _u	1.37 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air	22000 r/min



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Lubrication	
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	200 N
Static axial stiffness, preload class A	200 N/ μ m
Preload class B G_B	400 N
Static axial stiffness, preload class B	261 N/ μ m
Preload class C G_C	800 N
Static axial stiffness, preload class C	348 N/ μ m
Preload class D G_D	1600 N
Static axial stiffness, preload class D	475 N/ μ m
Calculation factor f	1.19
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.17
Calculation factor f_{HC}	1.04
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to- back, face-to-face) Y_1	0.92
Calculation factor (back-to- back, face-to-face) Y_2	1.41



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Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.28 kg