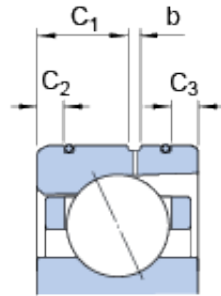
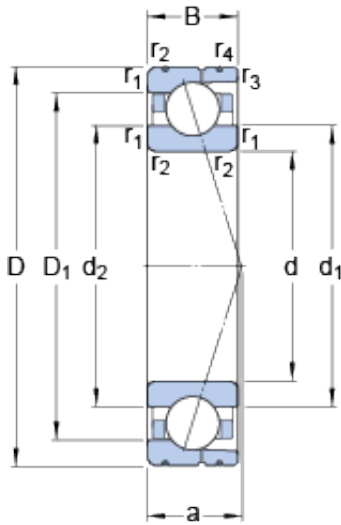




NTN Driveshaft CORP.



50 mm x 80 mm x 16 mm SKF 7010 CD/P4AL
angular contact ball bearings

Bearing No. 7010 CD/P4AL

7010 CD/P4AL Bearing 2D drawings and 3D CAD models

Size	80x50x16 mm
Bore Diameter	80 mm
Outer Diameter	50 mm
Width	16 mm
d	50 mm
D	80 mm
B	16 mm
d ₁	59.2 mm
d ₂	59.2 mm
D ₁	70.8 mm
b	2 mm
C ₁	8.6 mm
C ₂	3.6 mm
C ₃	2.8 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	16.8 mm
d _a - min.	54.6 mm
d _b - min.	54.6 mm
D _a - max.	75.4 mm
D _b - max.	78 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	61.2 mm



NTN Driveshaft CORP.

Basic dynamic load rating - C	29.6 kN
Basic static load rating - C ₀	24 kN
Fatigue load limit - P _u	1 kN
Limiting speed for grease lubrication	17000 r/min
Limiting speed for oil lubrication	28000 mm/min
Ball - D _w	9.525 mm
Ball - z	18
G _{ref}	3.6 cm ³
Calculation factor - f ₀	15.4
Preload class A - G _A	110 N
Preload class B - G _B	220 N
Preload class C - G _C	440 N
Preload class D - G _D	880 N
Calculation factor - f	1.11
Calculation factor - f	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
Preload class A	58 N/micron
Preload class B	79 N/micron
Preload class C	111 N/micron
Preload class D	161 N/micron
d ₁	59.2 mm
d ₂	59.2 mm
D ₁	70.8 mm
C ₁	8.6 mm



NTN Driveshaft CORP.

C_2	3.6 mm
C_3	2.8 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	54.6 mm
d_b min.	54.6 mm
D_a max.	75.4 mm
D_b max.	78 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	61.2 mm
Basic dynamic load rating C	29.6 kN
Basic static load rating C_0	24 kN
Fatigue load limit P_u	1.02 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	28000 r/min
Ball diameter D_w	9.525 mm
Number of balls z	18
Reference grease quantity G_{ref}	3.6 cm ³
Preload class A G_A	110 N
Static axial stiffness, preload class A	58 N/ μ m
Preload class B G_B	220 N
Static axial stiffness, preload class B	79 N/ μ m
Preload class C G_C	440 N
Static axial stiffness, preload class C	111 N/ μ m
Preload class D G_D	880 N
Static axial stiffness, preload class D	161 N/ μ m



NTN Driveshaft CORP.

Calculation factor f	1.11
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
Calculation factor f_0	15.4
Mass bearing	0.25 kg