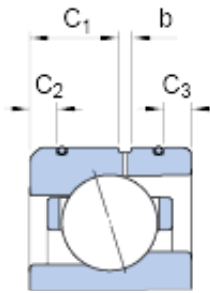
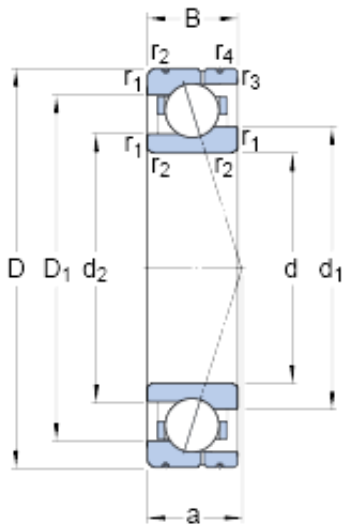




NTN Bearing Rolamentos do Brasil Ltda.



20 mm x 37 mm x 9 mm skf 71904
ACE/HCP4AL Super-precision Angular contact
ball bearings

Bearing No. 71904 ACE/HCP4AL

71904 ACE/HCP4AL Bearing 2D drawings and 3D
CAD models

Size	37x20x9 mm
Bore Diameter	37 mm
Outer Diameter	20 mm
Width	9 mm
d	20 mm
D	37 mm
B	9 mm
d ₁	25.65 mm
d ₂	24.4 mm
D ₁	31.49 mm
b	1.5 mm
C ₁	4.6 mm
C ₂	1.4 mm
C ₃	0.9 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	11.6 mm
d _a - min.	22 mm
d _b - min.	22 mm
D _a - max.	35 mm
D _b - max.	36.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	26.7 mm



NTN Bearing Rolamentos do Brasil Ltda.

Basic dynamic load rating - C	4.7 kN
Basic static load rating - C ₀	2.3 kN
Fatigue load limit - P _u	0.098 kN
Limiting speed for grease lubrication	60000 r/min
Limiting speed for oil lubrication	95000 mm/min
Ball - D _w	4.762 mm
Ball - z	14
G _{ref}	0.5 cm ³
Calculation factor - e	0.68
Calculation factor - Y ₂	0.87
Calculation factor - Y ₀	0.38
Calculation factor - X ₂	0.41
Calculation factor - Y ₁	0.92
Calculation factor - Y ₂	1.41
Calculation factor - Y ₀	0.76
Calculation factor - X ₂	0.67
Preload class A - G _A	42 N
Preload class B - G _B	130 N
Preload class C - G _C	250 N
Calculation factor - f	1.04
Calculation factor - f ₁	0.98
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.04
Calculation factor - f _{2C}	1.08
Calculation factor - f _{HC}	1.01
Preload class A	52 N/micron
Preload class B	76 N/micron



NTN Bearing Rolamentos do Brasil Ltda.

Preload class C	98 N/micron
d_1	25.65 mm
d_2	24.4 mm
D_1	31.49 mm
C_1	4.6 mm
C_2	1.4 mm
C_3	0.9 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	22 mm
d_b min.	22 mm
D_a max.	35 mm
D_b max.	36.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	26.7 mm
Basic dynamic load rating C	4.68 kN
Basic static load rating C_0	2.28 kN
Fatigue load limit P_u	0.098 kN
Attainable speed for grease lubrication	60000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	14
Reference grease quantity G_{ref}	0.5 cm ³
Preload class A G_A	42 N
Static axial stiffness, preload class A	52 N/ μ m
Preload class B G_B	130 N
Static axial stiffness, preload class B	76 N/ μ m
Preload class C G_C	250 N



NTN Bearing Rolamentos do Brasil Ltda.

Static axial stiffness, preload class C	98 N/ μ m
Calculation factor f	1.04
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1.01
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
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	0.032 kg