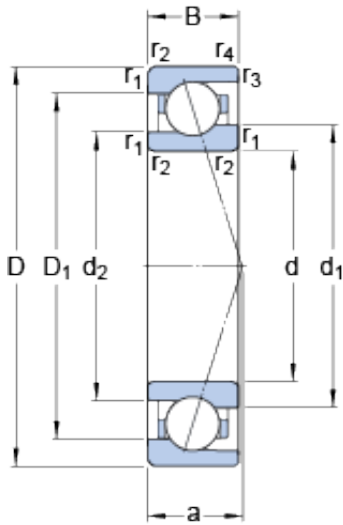




## Bearing equipment manufacturing Co., Ltd



20 mm x 37 mm x 9 mm SKF 71904 CE/HCP4A  
angular contact ball bearings

Bearing No. 71904 CE/HCP4A

71904 CE/HCP4A 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 <sub>1</sub>	25.65 mm
d <sub>2</sub>	24.4 mm
D <sub>1</sub>	31.49 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	8.5 mm
d <sub>a</sub> - min.	22 mm
d <sub>b</sub> - min.	22 mm
D <sub>a</sub> - max.	35 mm
D <sub>b</sub> - max.	36.2 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	26.7 mm
Basic dynamic load rating - C	4.9 kN
Basic static load rating - C <sub>0</sub>	2.4 kN
Fatigue load limit - P <sub>u</sub>	0.102 kN
Limiting speed for grease	68000 r/min



## Bearing equipment manufacturing Co., Ltd

Lubrication	
Limiting speed for oil lubrication	106000 mm/min
Ball - $D_w$	4.762 mm
Ball - $z$	14
$G_{ref}$	0.5 cm <sup>3</sup>
Calculation factor - $f_0$	7.8
Preload class A - $G_A$	26 N
Preload class B - $G_B$	79 N
Preload class C - $G_C$	157 N
Calculation factor - $f$	1.04
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.05
Calculation factor - $f_{2C}$	1.09
Calculation factor - $f_{HC}$	1.01
Preload class A	20 N/micron
Preload class B	31 N/micron
Preload class C	43 N/micron
$d_1$	25.65 mm
$d_2$	24.4 mm
$D_1$	31.49 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



## Bearing equipment manufacturing Co., Ltd

Basic dynamic load rating C	4.88 kN
Basic static load rating $C_0$	2.4 kN
Fatigue load limit $P_u$	0.102 kN
Attainable speed for grease lubrication	68000 r/min
Attainable speed for oil-air lubrication	106000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	14
Reference grease quantity $G_{ref}$	0.5 cm <sup>3</sup>
Preload class A $G_A$	26 N
Static axial stiffness, preload class A	20 N/ $\mu$ m
Preload class B $G_B$	79 N
Static axial stiffness, preload class B	31 N/ $\mu$ m
Preload class C $G_C$	157 N
Static axial stiffness, preload class C	43 N/ $\mu$ m
Calculation factor f	1.04
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.05
Calculation factor $f_{2C}$	1.09
Calculation factor $f_{HC}$	1.01
Calculation factor $f_0$	7.8
Mass bearing	0.032 kg