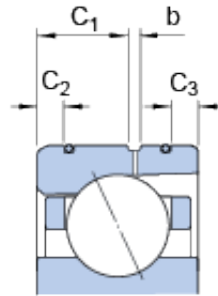
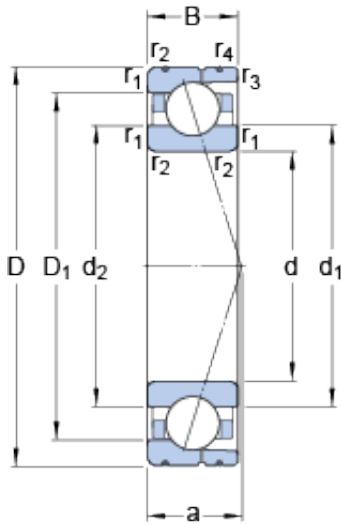




# Timken BEARINGS INDUSTRY



65 mm x 90 mm x 13 mm SKF 71913  
CD/HCP4AL angular contact ball bearings

Bearing No. 71913 CD/HCP4AL

71913 CD/HCP4AL Bearing 2D drawings and 3D CAD models

Size	90x65x13 mm
Bore Diameter	90 mm
Outer Diameter	65 mm
Width	13 mm
d	65 mm
D	90 mm
B	13 mm
d <sub>1</sub>	72.7 mm
d <sub>2</sub>	72.7 mm
D <sub>1</sub>	82.3 mm
b	2.2 mm
C <sub>1</sub>	6.5 mm
C <sub>2</sub>	3.2 mm
C <sub>3</sub>	2 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	17 mm
d <sub>a</sub> - min.	69.6 mm
d <sub>b</sub> - min.	69.6 mm
D <sub>a</sub> - max.	85.4 mm
D <sub>b</sub> - max.	88 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	74.7 mm



## Timken BEARINGS INDUSTRY

Basic dynamic load rating - C	20.8 kN
Basic static load rating - C <sub>0</sub>	17 kN
Fatigue load limit - P <sub>u</sub>	0.71 kN
Limiting speed for grease lubrication	17000 r/min
Limiting speed for oil lubrication	26000 mm/min
Ball - D <sub>w</sub>	7.938 mm
Ball - z	26
G <sub>ref</sub>	2.85 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	10.7
Preload class A - G <sub>A</sub>	80 N
Preload class B - G <sub>B</sub>	160 N
Preload class C - G <sub>C</sub>	320 N
Preload class D - G <sub>D</sub>	640 N
Calculation factor - f	1.2
Calculation factor - f	1
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.07
Calculation factor - f <sub>2C</sub>	1.12
Calculation factor - f <sub>2D</sub>	1.18
Calculation factor - f <sub>HC</sub>	1.04
Preload class A	62 N/micron
Preload class B	84 N/micron
Preload class C	115 N/micron
Preload class D	164 N/micron
d <sub>1</sub>	72.7 mm
d <sub>2</sub>	72.7 mm
D <sub>1</sub>	82.3 mm
C <sub>1</sub>	6.5 mm



## Timken BEARINGS INDUSTRY

$C_2$	3.2 mm
$C_3$	2 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	69.6 mm
$d_b$ min.	69.6 mm
$D_a$ max.	85.4 mm
$D_b$ max.	88 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	74.7 mm
Basic dynamic load rating C	20.8 kN
Basic static load rating $C_0$	17 kN
Fatigue load limit $P_u$	0.71 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	26000 r/min
Ball diameter $D_w$	7.938 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	2.85 cm <sup>3</sup>
Preload class A $G_A$	80 N
Static axial stiffness, preload class A	62 N/ $\mu$ m
Preload class B $G_B$	160 N
Static axial stiffness, preload class B	84 N/ $\mu$ m
Preload class C $G_C$	320 N
Static axial stiffness, preload class C	115 N/ $\mu$ m
Preload class D $G_D$	640 N
Static axial stiffness, preload class D	164 N/ $\mu$ m



## Timken BEARINGS INDUSTRY

Calculation factor $f$	1.2
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
Calculation factor $f_0$	10.7
Mass bearing	0.17 kg