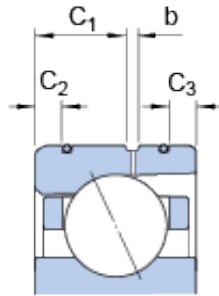
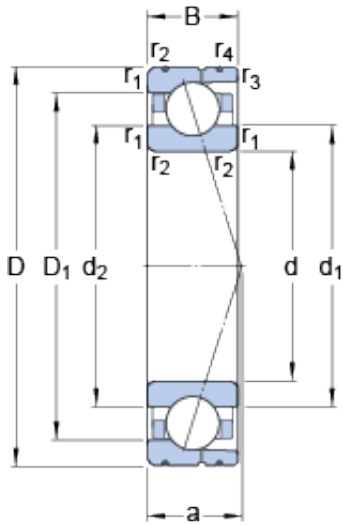




# Air Suspension Bearing Co., Ltd



90 mm x 125 mm x 18 mm SKF 71918  
CD/HCP4AL angular contact ball bearings

Bearing No. 71918 CD/HCP4AL

71918 CD/HCP4AL Bearing 2D drawings and 3D CAD models

Size	125x90x18 mm
Bore Diameter	125 mm
Outer Diameter	90 mm
Width	18 mm
d	90 mm
D	125 mm
B	18 mm
d <sub>1</sub>	100.8 mm
d <sub>2</sub>	100.8 mm
D <sub>1</sub>	114.2 mm
b	2.6 mm
C <sub>1</sub>	9.3 mm
C <sub>2</sub>	4.2 mm
C <sub>3</sub>	3 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	23.5 mm
d <sub>a</sub> - min.	96 mm
d <sub>b</sub> - min.	96 mm
D <sub>a</sub> - max.	119 mm
D <sub>b</sub> - max.	121 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	103.3 mm



## Air Suspension Bearing Co., Ltd

Basic dynamic load rating - C	47.5 kN
Basic static load rating - C <sub>0</sub>	51 kN
Fatigue load limit - P <sub>u</sub>	2.1 kN
Limiting speed for grease lubrication	13000 r/min
Limiting speed for oil lubrication	19000 mm/min
Ball - D <sub>w</sub>	11.112 mm
Ball - z	26
G <sub>ref</sub>	7.5 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	16.3
Preload class A - G <sub>A</sub>	180 N
Preload class B - G <sub>B</sub>	360 N
Preload class C - G <sub>C</sub>	720 N
Preload class D - G <sub>D</sub>	1440 N
Calculation factor - f	1.23
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	104 N/micron
Preload class B	143 N/micron
Preload class C	203 N/micron
Preload class D	297 N/micron
d <sub>1</sub>	100.8 mm
d <sub>2</sub>	100.8 mm
D <sub>1</sub>	114.2 mm
C <sub>1</sub>	9.3 mm



## Air Suspension Bearing Co., Ltd

$C_2$	4.2 mm
$C_3$	3 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	96 mm
$d_b$ min.	96 mm
$D_a$ max.	119 mm
$D_b$ max.	121 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	103.3 mm
Basic dynamic load rating C	47.5 kN
Basic static load rating $C_0$	51 kN
Fatigue load limit $P_u$	2.08 kN
Attainable speed for grease lubrication	13000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter $D_w$	11.112 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	7.5 cm <sup>3</sup>
Preload class A $G_A$	180 N
Static axial stiffness, preload class A	104 N/ $\mu$ m
Preload class B $G_B$	360 N
Static axial stiffness, preload class B	143 N/ $\mu$ m
Preload class C $G_C$	720 N
Static axial stiffness, preload class C	203 N/ $\mu$ m
Preload class D $G_D$	1440 N
Static axial stiffness, preload class D	297 N/ $\mu$ m



## Air Suspension Bearing Co., Ltd

Calculation factor $f$	1.23
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 $f_0$	16.3
Mass bearing	0.47 kg