



## Bearing Manufacturing of America



75 mm x 105 mm x 16 mm 75 mm x 105 mm x 16 mm SKF 71915 CD/HCP4AH1 angular contact ball bearings

Bearing No. 71915 CD/HCP4AH1

71915 CD/HCP4AH1 Bearing 2D drawings and 3D CAD models

Size	105x75x16 mm
Bore Diameter	105 mm
Outer Diameter	75 mm
Width	16 mm
d	75 mm
D	105 mm
B	16 mm
d <sub>1</sub>	84.2 mm
d <sub>2</sub>	84.2 mm
D <sub>1</sub>	95.8 mm
K	0.5 mm
C <sub>1</sub>	4.46 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	20.1 mm
d <sub>a</sub> - min.	79.6 mm
d <sub>b</sub> - min.	79.6 mm
D <sub>a</sub> - max.	100 mm
D <sub>b</sub> - max.	103 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
d <sub>n</sub>	86.7 mm
Basic dynamic load rating - C	35.8 kN



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Basic static load rating - $C_0$	37.5 kN
Fatigue load limit - $P_u$	1.6 kN
Limiting speed for grease lubrication	15000 r/min
Limiting speed for oil lubrication	22000 mm/min
Ball - $D_w$	9.525 mm
Ball - $z$	26
$G_{ref}$	5.1 cm <sup>3</sup>
Calculation factor - $f_0$	16.3
Preload class A - $G_A$	130 N
Preload class B - $G_B$	260 N
Preload class C - $G_C$	520 N
Preload class D - $G_D$	1040 N
Calculation factor - $f$	1.21
Calculation factor - $f$	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
Preload class A	89 N/micron
Preload class B	122 N/micron
Preload class C	173 N/micron
Preload class D	253 N/micron
$d_1$	84.2 mm
$d_2$	84.2 mm
$D_1$	95.8 mm
$C_1$	4.46 mm
$r_{1,2}$ min.	1 mm



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$r_{3,4}$ min.	0.3 mm
$d_a$ min.	79.6 mm
$d_b$ min.	79.6 mm
$D_a$ max.	100 mm
$D_b$ max.	103 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
$d_n$	86.7 mm
Basic dynamic load rating C	35.8 kN
Basic static load rating $C_0$	37.5 kN
Fatigue load limit $P_u$	1.56 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter $D_w$	9.525 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	5.1 cm <sup>3</sup>
Preload class A $G_A$	130 N
Static axial stiffness, preload class A	89 N/ $\mu$ m
Preload class B $G_B$	260 N
Static axial stiffness, preload class B	122 N/ $\mu$ m
Preload class C $G_C$	520 N
Static axial stiffness, preload class C	173 N/ $\mu$ m
Preload class D $G_D$	1040 N
Static axial stiffness, preload class D	253 N/ $\mu$ m
Calculation factor f	1.21
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1



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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	0.3 kg