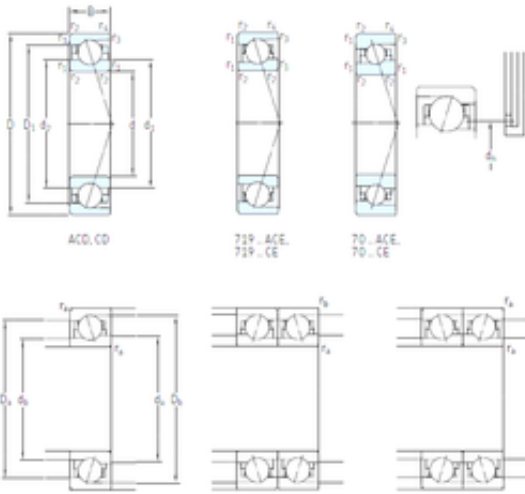




# SJN Machinery Co., Ltd.



## 80 mm x 110 mm x 16 mm SKF 71916 ACD/HCP4A Angular contact ball bearings

Bearing No. 71916 ACD/HCP4A

71916 ACD/HCP4A Bearing 2D drawings and 3D CAD models

Size	80x110x16 mm
Bore Diameter	80 mm
Outer Diameter	110 mm
Width	16 mm
d	80 mm
D	110 mm
B	16 mm
C	16 mm
d1	89,2 mm
d2	89,2 mm
r1 min.	1 mm
r2 min.	1 mm
r3 min.	0,3 mm
r4 min.	0,3 mm
D1	100,8 mm
D2	103,7 mm
da min.	84,6 mm
Da max.	105 mm
db min	84,6 mm
ra max.	1 mm
rb max.	0,3 mm
dh	91,7 mm
Db max	108 mm
Weight	0,32 Kg
Basic dynamic load rating (C)	34,5 kN



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Basic static load rating (C0)	36,5 kN
(Grease) Lubrication Speed	12 000 r/min
(Oil) Lubrication Speed	19 000 r/min
Fatigue load limit (Pu)	1,56
d <sub>1</sub>	89.2 mm
d <sub>2</sub>	89.2 mm
D <sub>1</sub>	100.8 mm
r <sub>1,2</sub> min.	1 mm
r <sub>3,4</sub> min.	0.3 mm
a	30.2 mm
d <sub>a</sub> min.	84.6 mm
d <sub>b</sub> min.	84.6 mm
D <sub>a</sub> max.	105 mm
D <sub>b</sub> max.	108 mm
r <sub>a</sub> max.	1 mm
r <sub>b</sub> max.	0.3 mm
d <sub>n</sub>	91.7 mm
Basic dynamic load rating C	34.5 kN
Basic static load rating C <sub>0</sub>	36.5 kN
Fatigue load limit P <sub>u</sub>	1.56 kN
Attainable speed for grease lubrication	12000 r/min
Attainable speed for oil-air lubrication	19000 r/min
Ball diameter D <sub>w</sub>	9.525 mm
Number of balls z	27
Reference grease quantity G <sub>ref</sub>	5.1 cm <sup>3</sup>
Preload class A G <sub>A</sub>	220 N
Static axial stiffness, preload class A	226 N/ μ m
Preload class B G <sub>B</sub>	440 N
Static axial stiffness, preload class B	296 N/ μ m



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Preload class C $G_C$	880 N
Static axial stiffness, preload class C	397 N/ $\mu$ m
Preload class D $G_D$	1760 N
Static axial stiffness, preload class D	544 N/ $\mu$ m
Calculation factor $f$	1.24
Calculation factor $f_1$	0.98
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{2D}$	1.17
Calculation factor $f_{HC}$	1.04
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	0.32 kg