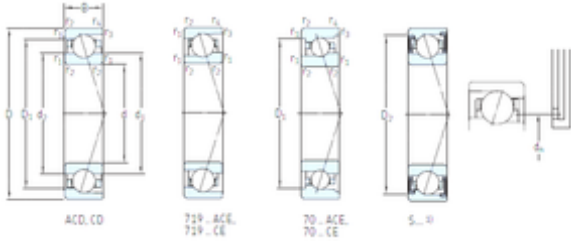


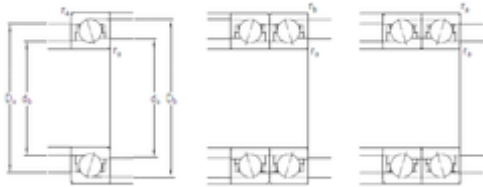


# NUP BEARING LTD



95 mm x 145 mm x 24 mm skf S7019  
ACD/HCP4A Super-precision Angular contact  
ball bearings

Bearing No. S7019 ACD/HCP4A



S7019 ACD/HCP4A Bearing 2D drawings and 3D CAD  
models

Size	95x145x24 mm
Bore Diameter	95 mm
Outer Diameter	145 mm
Width	24 mm
d	95 mm
D	145 mm
B	24 mm
C	24 mm
d1	110,4 mm
d2	110,4 mm
r1 min.	1,5 mm
r2 min.	1,5 mm
r3 min.	1 mm
r4 min.	1 mm
D1	129,6 mm
D2	133,3 mm
da min.	102 mm
Da max.	138 mm
db min	102 mm
ra max.	1,5 mm
rb max.	1 mm
dh	113,7 mm
Db max	141 mm
Weight	1 Kg
Basic dynamic load rating	76,1 kN



## NUP BEARING LTD

(C)	
Basic static load rating (C <sub>0</sub> )	76,5 kN
(Grease) Lubrication Speed	10 000 r/min
(Oil) Lubrication Speed	16 000 r/min
Fatigue load limit (P <sub>u</sub> )	2,9
d <sub>1</sub>	110.4 mm
d <sub>2</sub>	110.4 mm
D <sub>2</sub>	133.25 mm
r <sub>1,2</sub> min.	1.5 mm
r <sub>3,4</sub> min.	1 mm
a	40.1 mm
d <sub>a</sub> min.	102 mm
d <sub>a</sub> max.	109.8 mm
d <sub>b</sub> min.	102 mm
d <sub>b</sub> max.	109.8 mm
D <sub>a</sub> max.	138 mm
D <sub>b</sub> max.	141 mm
r <sub>a</sub> max.	1.5 mm
r <sub>b</sub> max.	1 mm
Basic dynamic load rating C	76.1 kN
Basic static load rating C <sub>0</sub>	76.5 kN
Fatigue load limit P <sub>u</sub>	2.9 kN
Attainable speed for grease lubrication	10000 r/min
Ball diameter D <sub>w</sub>	15.875 mm
Number of balls z	21
Preload class A G <sub>A</sub>	480 N
Static axial stiffness, preload class A	286 N/ μ m
Preload class B G <sub>B</sub>	960 N
Static axial stiffness, preload class B	374 N/ μ m
Preload class C G <sub>C</sub>	1920 N



## NUP BEARING LTD

Static axial stiffness, preload class C	497 N/ $\mu$ m
Preload class D $G_D$	3840 N
Static axial stiffness, preload class D	673 N/ $\mu$ m
Calculation factor f	1.15
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.08
Calculation factor $f_{HC}$	1.02
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	1.01 kg