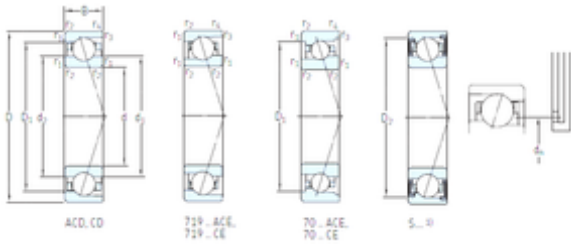


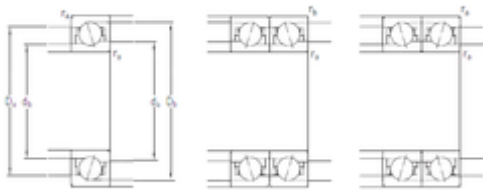


# NTN Machinery Manufacturing Co., Ltd



120 mm x 180 mm x 28 mm SKF S7024 CB/P4A angular contact ball bearings

Bearing No. S7024 CB/P4A



S7024 CB/P4A Bearing 2D drawings and 3D CAD models

Size	120x180x28 mm
Bore Diameter	120 mm
Outer Diameter	180 mm
Width	28 mm
d	120 mm
D	180 mm
B	28 mm
C	28 mm
d1	143,2 mm
d2	140,8 mm
r1 min.	2 mm
r2 min.	2 mm
r3 min.	1 mm
r4 min.	1 mm
D1	161,9 mm
D2	161,9 mm
da min.	129 mm
Da max.	171 mm
db min	129 mm
ra max.	2 mm
rb max.	1 mm
dh	144,7 mm
Db max	175,4 mm
Weight	2,35 Kg
Basic dynamic load rating (C)	37,7 kN



## NTN Machinery Manufacturing Co., Ltd

Basic static load rating (C <sub>0</sub> )	39 kN
(Grease) Lubrication Speed	9 500 r/min
(Oil) Lubrication Speed	14 000 r/min
Fatigue load limit (P <sub>u</sub> )	1,34
d <sub>1</sub>	143.2 mm
d <sub>2</sub>	140.8 mm
D <sub>2</sub>	161.9 mm
r <sub>1,2</sub> min.	2 mm
r <sub>3,4</sub> min.	1 mm
a	34.2 mm
d <sub>a</sub> min.	129 mm
d <sub>a</sub> max.	142.4 mm
d <sub>b</sub> min.	129 mm
d <sub>b</sub> max.	140 mm
D <sub>a</sub> max.	171 mm
D <sub>b</sub> max.	175.4 mm
r <sub>a</sub> max.	2 mm
r <sub>b</sub> max.	1 mm
Basic dynamic load rating C	50.7 kN
Basic static load rating C <sub>0</sub>	63 kN
Fatigue load limit P <sub>u</sub>	1.34 kN
Attainable speed for grease lubrication	9500 r/min
Ball diameter D <sub>w</sub>	11.112 mm
Number of balls z	33
Preload class A G <sub>A</sub>	75 N
Static axial stiffness, preload class A	75 N/ μ m
Preload class B G <sub>B</sub>	260 N
Static axial stiffness, preload class B	98 N/ μ m
Preload class C G <sub>C</sub>	780 N
Static axial stiffness, preload	156 N/ μ m



## NTN Machinery Manufacturing Co., Ltd

class C	
Calculation factor $f$	1.08
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	9.8
Mass bearing	2.35 kg