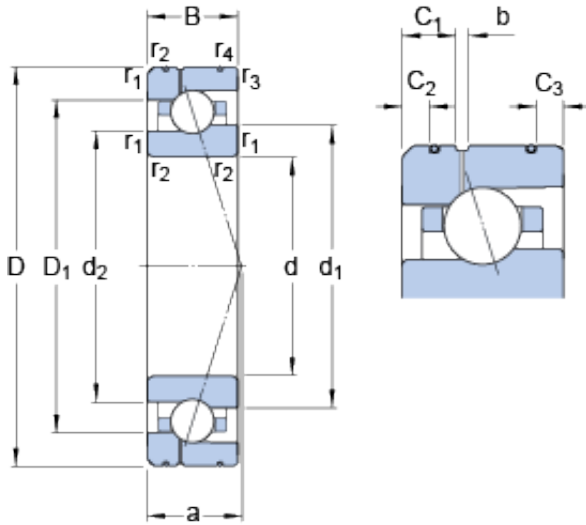




# GQ BEARING PROCESSING LTD



55 mm x 90 mm x 18 mm SKF 7011 CE/P4AL1  
angular contact ball bearings

Bearing No. 7011 CE/P4AL1

7011 CE/P4AL1 Bearing 2D drawings and 3D CAD models

Size	90x55x18 mm
Bore Diameter	90 mm
Outer Diameter	55 mm
Width	18 mm
d	55 mm
D	90 mm
B	18 mm
d <sub>1</sub>	67.73 mm
d <sub>2</sub>	65.6 mm
D <sub>1</sub>	77.25 mm
b	1.6 mm
C <sub>1</sub>	5.65 mm
C <sub>2</sub>	3.4 mm
C <sub>3</sub>	3.4 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	18.8 mm
d <sub>a</sub> - min.	61 mm
d <sub>b</sub> - min.	61 mm
D <sub>a</sub> - max.	84 mm
D <sub>b</sub> - max.	85.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	69.6 mm



## GQ BEARING PROCESSING LTD

Basic dynamic load rating - C	16.8 kN
Basic static load rating - C <sub>0</sub>	12.2 kN
Fatigue load limit - P <sub>u</sub>	0.52 kN
Limiting speed for grease lubrication	22000 r/min
Limiting speed for oil lubrication	34000 mm/min
Ball - D <sub>w</sub>	7.938 mm
Ball - z	24
G <sub>ref</sub>	5 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	8.4
Preload class A - G <sub>A</sub>	90 N
Preload class B - G <sub>B</sub>	270 N
Preload class C - G <sub>C</sub>	540 N
Calculation factor - f	1.07
Calculation factor - f	1
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.03
Calculation factor - f <sub>2C</sub>	1.05
Calculation factor - f <sub>HC</sub>	1
Preload class A	46 N/micron
Preload class B	72 N/micron
Preload class C	98 N/micron
d <sub>1</sub>	67.73 mm
d <sub>2</sub>	65.6 mm
D <sub>1</sub>	77.25 mm
C <sub>1</sub>	5.65 mm
C <sub>2</sub>	3.4 mm
C <sub>3</sub>	3.4 mm
r <sub>1,2</sub> min.	1.1 mm



## GQ BEARING PROCESSING LTD

$r_{3,4}$ min.	0.6 mm
$d_a$ min.	61 mm
$d_b$ min.	61 mm
$D_a$ max.	84 mm
$D_b$ max.	85.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	69.6 mm
Basic dynamic load rating C	16.8 kN
Basic static load rating $C_0$	12.2 kN
Fatigue load limit $P_u$	0.52 kN
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	34000 r/min
Ball diameter $D_w$	7.938 mm
Number of balls z	24
Reference grease quantity $G_{ref}$	5 cm <sup>3</sup>
Preload class A $G_A$	90 N
Static axial stiffness, preload class A	46 N/ $\mu$ m
Preload class B $G_B$	270 N
Static axial stiffness, preload class B	72 N/ $\mu$ m
Preload class C $G_C$	540 N
Static axial stiffness, preload class C	98 N/ $\mu$ m
Calculation factor f	1.07
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1



## GQ BEARING PROCESSING LTD

Calculation factor $f_0$	8.4
Mass bearing	0.39 kg