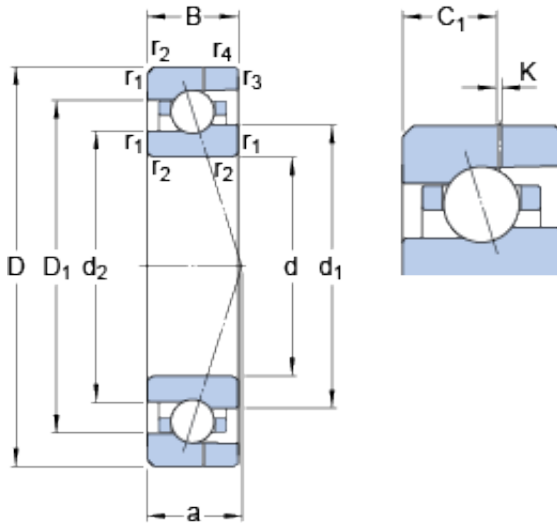




## Bearing import and Export Co., Ltd



17 mm x 35 mm x 10 mm SKF 7003 CE/P4AH  
angular contact ball bearings

Bearing No. 7003 CE/P4AH

7003 CE/P4AH Bearing 2D drawings and 3D CAD models

Size	35x17x10 mm
Bore Diameter	35 mm
Outer Diameter	17 mm
Width	10 mm
d	17 mm
D	35 mm
B	10 mm
d <sub>1</sub>	22.7 mm
d <sub>2</sub>	21.1 mm
D <sub>1</sub>	29.3 mm
K	0.5 mm
C <sub>1</sub>	6.05 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	8.6 mm
d <sub>a</sub> - min.	19 mm
d <sub>b</sub> - min.	19 mm
D <sub>a</sub> - max.	33 mm
D <sub>b</sub> - max.	33.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	24.1 mm
Basic dynamic load rating - C	5.8 kN
Basic static load rating - C <sub>0</sub>	2.6 kN



## Bearing import and Export Co., Ltd

Fatigue load limit - $P_u$	0.108 kN
Limiting speed for grease lubrication	63000 r/min
Limiting speed for oil lubrication	95000 mm/min
Ball - $D_w$	5.556 mm
Ball - $z$	12
$G_{ref}$	0.68 cm <sup>3</sup>
Calculation factor - $f_0$	7.2
Preload class A - $G_A$	30 N
Preload class B - $G_B$	90 N
Preload class C - $G_C$	185 N
Calculation factor - $f$	1.04
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1
Preload class A	18 N/micron
Preload class B	28 N/micron
Preload class C	39 N/micron
$d_1$	22.7 mm
$d_2$	21.1 mm
$D_1$	29.3 mm
$C_1$	6.05 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$d_a$ min.	19 mm
$d_b$ min.	19 mm
$D_a$ max.	33 mm
$D_b$ max.	33.6 mm



## Bearing import and Export Co., Ltd

$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	24.1 mm
Basic dynamic load rating C	5.85 kN
Basic static load rating $C_0$	2.55 kN
Fatigue load limit $P_u$	0.108 kN
Attainable speed for grease lubrication	63000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter $D_w$	5.556 mm
Number of balls z	12
Reference grease quantity $G_{ref}$	0.68 cm <sup>3</sup>
Preload class A $G_A$	30 N
Static axial stiffness, preload class A	18 N/ $\mu$ m
Preload class B $G_B$	90 N
Static axial stiffness, preload class B	28 N/ $\mu$ m
Preload class C $G_C$	185 N
Static axial stiffness, preload class C	39 N/ $\mu$ m
Calculation factor f	1.04
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
Calculation factor $f_0$	7.2
Mass bearing	0.035 kg