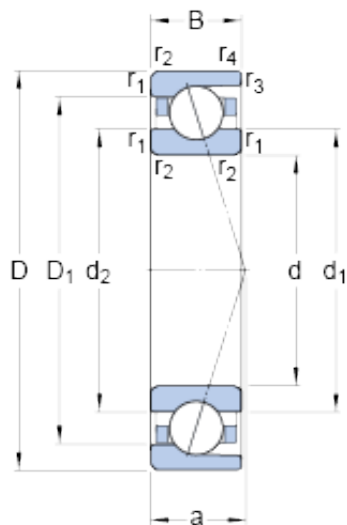




# Qingdao Clunt Bearing Co., Ltd.



## 12 mm x 28 mm x 8 mm SKF 7001 ACD/P4A angular contact ball bearings

Bearing No. 7001 ACD/P4A

7001 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	28x12x8 mm
Bore Diameter	28 mm
Outer Diameter	12 mm
Width	8 mm
d	12 mm
D	28 mm
B	8 mm
d <sub>1</sub>	17.1 mm
d <sub>2</sub>	17.1 mm
D <sub>1</sub>	22.9 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	8.7 mm
d <sub>a</sub> - min.	14 mm
d <sub>b</sub> - min.	14 mm
D <sub>a</sub> - max.	26 mm
D <sub>b</sub> - max.	26.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
d <sub>n</sub>	18 mm
Basic dynamic load rating - C	4.4 kN
Basic static load rating - C <sub>0</sub>	1.8 kN
Fatigue load limit - P <sub>u</sub>	0.078 kN
Limiting speed for grease	60000 r/min



## Qingdao Clunt Bearing Co., Ltd.

Lubrication	
Limiting speed for oil lubrication	90000 mm/min
Ball - $D_w$	4.762 mm
Ball - $z$	10
$G_{ref}$	0.27 cm <sup>3</sup>
Calculation factor - $e$	0.68
Calculation factor - $Y_2$	0.87
Calculation factor - $Y_0$	0.38
Calculation factor - $X_2$	0.41
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_2$	1.41
Calculation factor - $Y_0$	0.76
Calculation factor - $X_2$	0.67
Preload class A - $G_A$	25 N
Preload class B - $G_B$	50 N
Preload class C - $G_C$	100 N
Preload class D - $G_D$	200 N
Calculation factor - $f$	1.03
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
Preload class A	34 N/micron
Preload class B	44 N/micron
Preload class C	57 N/micron
Preload class D	76 N/micron



## Qingdao Clunt Bearing Co., Ltd.

Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.027
EAN	7316570821635
Product Group	B00308
Enclosure	Open
Precision Class	ABEC 7   ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 Degree
Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row   Angular Contact   High Precision
Long Description	12MM Bore; 28MM Outside Diameter; 8MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Race
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>



## Qingdao Clunt Bearing Co., Ltd.

Manufacturer Item Number	7001 ACD/P4A
Weight / LBS	0.06
Bore	0.472 Inch   12 Millimeter
Outside Diameter	1.102 Inch   28 Millimeter
Width	0.315 Inch   8 Millimeter
$d_1$	17.1 mm
$d_2$	17.1 mm
$D_1$	22.9 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	14 mm
$d_b$ min.	14 mm
$D_a$ max.	26 mm
$D_b$ max.	26.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
$d_n$	18 mm
Basic dynamic load rating C	4.36 kN
Basic static load rating $C_0$	1.83 kN
Fatigue load limit $P_u$	0.078 kN
Attainable speed for grease lubrication	60000 r/min
Attainable speed for oil-air lubrication	90000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	10
Reference grease quantity $G_{ref}$	0.27 cm <sup>3</sup>
Preload class A $G_A$	25 N
Static axial stiffness, preload class A	34 N/ $\mu$ m
Preload class B $G_B$	50 N
Static axial stiffness, preload class B	44 N/ $\mu$ m



## Qingdao Clunt Bearing Co., Ltd.

Preload class C $G_C$	100 N
Static axial stiffness, preload class C	57 N/ $\mu$ m
Preload class D $G_D$	200 N
Static axial stiffness, preload class D	76 N/ $\mu$ m
Calculation factor $f$	1.03
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
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	0.021 kg