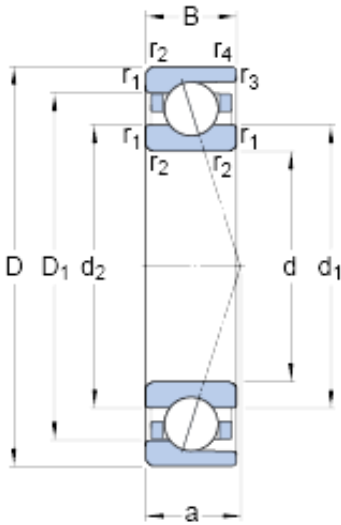




# NTN Bearing Rolamentos do Brasil Ltda.



## 150 mm x 225 mm x 35 mm skf 7030 CD/P4A Super-precision Angular contact ball bearings

Bearing No. 7030 CD/P4A

7030 CD/P4A Bearing 2D drawings and 3D CAD models

Size	225x150x35 mm
Bore Diameter	225 mm
Outer Diameter	150 mm
Width	35 mm
d	150 mm
D	225 mm
B	35 mm
d <sub>1</sub>	173.1 mm
d <sub>2</sub>	173.1 mm
D <sub>1</sub>	201.9 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1 mm
a	42.7 mm
d <sub>a</sub> - min.	161 mm
d <sub>b</sub> - min.	161 mm
D <sub>a</sub> - max.	214 mm
D <sub>b</sub> - max.	220 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	178.2 mm
Basic dynamic load rating - C	172 kN
Basic static load rating - C <sub>0</sub>	190 kN
Fatigue load limit - P <sub>u</sub>	5.8 kN
Limiting speed for grease	6000 r/min



## NTN Bearing Rolamentos do Brasil Ltda.

Lubrication	
Limiting speed for oil lubrication	9000 mm/min
Ball - $D_w$	23.812 mm
Ball - $z$	22
$G_{ref}$	54 cm3
Calculation factor - $f_0$	15.8
Preload class A - $G_A$	650 N
Preload class B - $G_B$	1300 N
Preload class C - $G_C$	2600 N
Preload class D - $G_D$	5200 N
Calculation factor - $f$	1.16
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{HC}$	1
Preload class A	163 N/micron
Preload class B	221 N/micron
Preload class C	310 N/micron
Preload class D	449 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	4.734
EAN	7316570593990
Product Group	B04270
Enclosure	Open



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Precision Class	ABEC 7   ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 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	150MM Bore; 225MM Outside Diameter; 35MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
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>
Manufacturer Item Number	7030 CD/P4A
Weight / LBS	10.428
Outside Diameter	8.858 Inch   225 Millimeter
Width	1.378 Inch   35 Millimeter
Bore	5.906 Inch   150 Millimeter
d <sub>1</sub>	173.1 mm
d <sub>2</sub>	173.1 mm
D <sub>1</sub>	201.9 mm



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$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	161 mm
$d_b$ min.	161 mm
$D_a$ max.	214 mm
$D_b$ max.	220 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	178.2 mm
Basic dynamic load rating C	172 kN
Basic static load rating $C_0$	190 kN
Fatigue load limit $P_u$	5.85 kN
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	9000 r/min
Ball diameter $D_w$	23.812 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	54 cm <sup>3</sup>
Preload class A $G_A$	650 N
Static axial stiffness, preload class A	163 N/ $\mu$ m
Preload class B $G_B$	1300 N
Static axial stiffness, preload class B	221 N/ $\mu$ m
Preload class C $G_C$	2600 N
Static axial stiffness, preload class C	310 N/ $\mu$ m
Preload class D $G_D$	5200 N
Static axial stiffness, preload class D	449 N/ $\mu$ m
Calculation factor f	1.16
Calculation factor $f_1$	1



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Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	15.8
Mass bearing	4.17 kg