



Bearing No. 7022 CD/HCP4A

D	170 mm
d	110 mm
B	28 mm
a	32.9 mm
Noun	Bearing
Bore	4.331 Inch 110 Millimeter
Width	1.102 Inch 28 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	20
Inventory	0.0
Enclosure	Open
Size (mm)	170x110x28
Width (mm)	28
Flush Ground	No
Mass bearing	1.63 kg
d ₁	128.5 mm
d ₂	128.5 mm
d _n	132.6 mm
Inch - Metric	Metric
D ₁	151.5 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	128.5 mm
Contact Angle	15 Degree
d ₁	128.5 mm
D ₁	151.5 mm

d_n	132.6 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7022 CD/HCP4A
Material - Ball	Ceramic
Preload class A	135 N/micron
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	374 N/micron
G_{ref}	25.5 cm ³
Preload class B	184 N/micron
Preload class C	258 N/micron
Manufacturer URL	http://www.skf.com
Long Description	110MM Bore; 170MM Outside Diameter; 28MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring
Outside Diameter	6.693 Inch 170 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0
Number of balls z	20
D_a max.	161 mm
D_b max.	165 mm
r_a max.	2 mm
r_b max.	1 mm
d_b min.	119 mm

d_a min.	119 mm
Bore Diameter (mm)	170
Number of Bearings	1 (Single)
Outer Diameter (mm)	110
Ball - D_w	19.05 mm
D_a - max.	161 mm
$r_{3,4}$ min.	1 mm
$r_{1,2}$ min.	2 mm
d_a - min.	119 mm
d_b - min.	119 mm
Minimum Buy Quantity	N/A
D_b - max.	165 mm
r_a - max.	2 mm
r_b - max.	1 mm
Calculation factor f	1.14
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.14
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Basic dynamic load rating C	111 kN
Ball diameter D_w	19.05 mm
Preload class A G_A	420 N
Basic dynamic load rating - C	111 kN
Preload class B G_B	840 N
Preload class C G_C	1680 N
Preload class D G_D	3360 N
Preload class D - G_D	3360 N
Preload class B - G_B	840 N
Preload class C - G_C	1680 N
Preload class A - G_A	420 N

Calculation factor f_0	15.5
Fatigue load limit P_u	3.9 kN
Calculation factor f_1	1
Calculation factor f_{HC}	1.02
Calculation factor f_{2D}	1.09
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor - f_0	15.5
Limiting speed for oil lubrication	14000 mm/min
Fatigue load limit - P_u	3.9 kN
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2D}	1.09
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	9500 r/min
Basic static load rating C_0	108 kN
Static axial stiffness, preload class B	184 N/ μ m
Static axial stiffness, preload class C	258 N/ μ m
Static axial stiffness, preload class D	374 N/ μ m
Static axial stiffness, preload class A	135 N/ μ m
Attainable speed for grease lubrication	9500 r/min
Attainable speed for oil-	14000 r/min

air lubrication	
Basic static load rating - C_0	108 kN
Reference grease quantity G_{ref}	25.5 cm ³