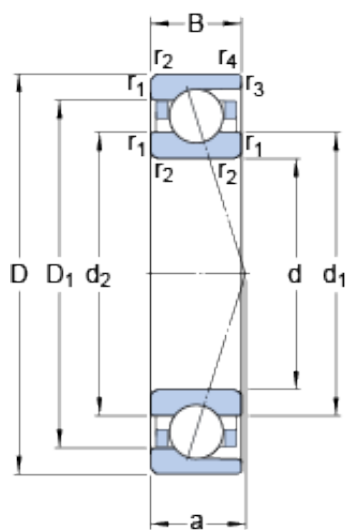




Bearing No. 7210 CD/P4A

D	90 mm
d	50 mm
B	20 mm
a	19.4 mm
Noun	Bearing
Bore	1.969 Inch 50 Millimeter
Width	0.787 Inch 20 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	15
Inventory	0.0
Enclosure	Open
Size (mm)	90x50x20
Width (mm)	20
Flush Ground	No
Mass bearing	0.46 kg
d ₁	62.3 mm
d ₂	62.3 mm
d _n	65.6 mm
Inch - Metric	Metric
D ₁	77.7 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	62.3 mm
Contact Angle	15 Degree
d ₁	62.3 mm
D ₁	77.7 mm

d _n	65.6 mm
Product Group	B04270
Other Features	Single Row Angular Contact Super Precision High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7210 CD/P4A
Material - Ball	Steel
Preload class A	65 N/micron
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	178 N/micron
G _{ref}	6.708 cm ³
Preload class B	88 N/micron
Preload class C	124 N/micron
Manufacturer URL	http://www.skf.com
Long Description	50MM Bore; 90MM Outside Diameter; 20MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Race
Outside Diameter	3.543 Inch 90 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0.457
Number of balls z	15
D _a max.	83 mm
D _b max.	85.8 mm
r _a max.	1 mm
r _b max.	0.6 mm

d_b min.	57 mm
d_a min.	57 mm
Bore Diameter (mm)	90
Number of Bearings	1 (Single)
Outer Diameter (mm)	50
Ball - D_w	12.7 mm
D_a - max.	83 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.1 mm
d_a - min.	57 mm
d_b - min.	57 mm
Minimum Buy Quantity	N/A
D_b - max.	85.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
Calculation factor f	1.08
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.08
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Basic dynamic load rating C	44.9 kN
Ball diameter D_w	12.7 mm
Preload class A G_A	170 N
Basic dynamic load rating - C	44.9 kN
Preload class B G_B	340 N
Preload class C G_C	680 N
Preload class D G_D	1360 N
Preload class D - G_D	1360 N
Preload class B - G_B	340 N
Preload class C - G_C	680 N

Preload class A - G_A	170 N
Calculation factor f_0	14.5
Fatigue load limit P_u	1.43 kN
Calculation factor f_1	1
Calculation factor f_{HC}	1
Calculation factor f_{2D}	1.05
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor - f_0	14.5
Limiting speed for oil lubrication	26000 mm/min
Fatigue load limit - P_u	1.4 kN
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2C}	1.03
Limiting speed for grease lubrication	16000 r/min
Basic static load rating C_0	34 kN
Static axial stiffness, preload class B	88 N/ μ m
Static axial stiffness, preload class C	124 N/ μ m
Static axial stiffness, preload class D	178 N/ μ m
Static axial stiffness, preload class A	65 N/ μ m
Attainable speed for grease lubrication	16000 r/min

Attainable speed for oil-air lubrication	26000 r/min
Basic static load rating - C_0	34 kN
Reference grease quantity G_{ref}	6.708 cm ³