



Qingdao Clunt Bearing Co., Ltd.



71919 ACD/P4A Bearing 2D drawings and 3D CAD models

95 mm x 130 mm x 18 mm SKF 71919 ACD/P4A angular contact ball bearings

Bearing No. 71919 ACD/P4A

Size	130x95x18 mm
Bore Diameter	130 mm
Outer Diameter	95 mm
Width	18 mm
d	95 mm
D	130 mm
B	18 mm
d ₁	105.8 mm
d ₂	105.8 mm
D ₁	119.2 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	35.3 mm
d _a - min.	101 mm
d _b - min.	101 mm
D _a - max.	124 mm
D _b - max.	126 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	108.6 mm
Basic dynamic load rating - C	46.2 kN
Basic static load rating - C ₀	52 kN
Fatigue load limit - P _u	2.1 kN
Limiting speed for grease	8500 r/min



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Lubrication	
Limiting speed for oil lubrication	14000 mm/min
Ball - D_w	11.112 mm
Ball - z	28
G_{ref}	7.8 cm ³
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	290 N
Preload class B - G_B	580 N
Preload class C - G_C	1160 N
Preload class D - G_D	2320 N
Calculation factor - f	1.26
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.08
Calculation factor - f_{2D}	1.14
Calculation factor - f_{HC}	1
Preload class A	240 N/micron
Preload class B	315 N/micron
Preload class C	420 N/micron
Preload class D	576 N/micron



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Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.653
Product Group	B04270
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	95MM Bore; 130MM Outside Diameter; 18MM 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 Ra
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	71919 ACD/P4A



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Weight / LBS	1.44
Width	0.709 Inch 18 Millimeter
Outside Diameter	5.118 Inch 130 Millimeter
Bore	3.74 Inch 95 Millimeter
d_1	105.8 mm
d_2	105.8 mm
D_1	119.2 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	101 mm
d_b min.	101 mm
D_a max.	124 mm
D_b max.	126 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	108.6 mm
Basic dynamic load rating C	46.2 kN
Basic static load rating C_0	52 kN
Fatigue load limit P_u	2.08 kN
Attainable speed for grease lubrication	8500 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	28
Reference grease quantity G_{ref}	7.8 cm ³
Preload class A G_A	290 N
Static axial stiffness, preload class A	240 N/ μ m
Preload class B G_B	580 N
Static axial stiffness, preload class B	315 N/ μ m
Preload class C G_C	1160 N



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Static axial stiffness, preload class C	420 N/ μ m
Preload class D G_D	2320 N
Static axial stiffness, preload class D	576 N/ μ m
Calculation factor f	1.26
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.08
Calculation factor f_{2D}	1.14
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	0.58 kg