



YYH Bearing & Drivetrain Co., Ltd.



65 mm x 90 mm x 13 mm SKF 71913
 CD/HCP4A double direction angular contact
 thrust ball bearings

Bearing No. 71913 CD/HCP4A

71913 CD/HCP4A Bearing 2D drawings and 3D CAD models

Size	90x65x13 mm
Bore Diameter	90 mm
Outer Diameter	65 mm
Width	13 mm
d	65 mm
D	90 mm
B	13 mm
d ₁	72.7 mm
d ₂	72.7 mm
D ₁	82.3 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	17 mm
d _a - min.	69.6 mm
d _b - min.	69.6 mm
D _a - max.	85.4 mm
D _b - max.	88 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	74.7 mm
Basic dynamic load rating - C	20.8 kN
Basic static load rating - C ₀	17 kN
Fatigue load limit - P _u	0.71 kN



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Limiting speed for grease lubrication	17000 r/min
Limiting speed for oil lubrication	26000 mm/min
Ball - D_w	7.938 mm
Ball - z	26
G_{ref}	2.85 cm ³
Calculation factor - f_0	10.7
Preload class A - G_A	80 N
Preload class B - G_B	160 N
Preload class C - G_C	320 N
Preload class D - G_D	640 N
Calculation factor - f	1.2
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.18
Calculation factor - f_{HC}	1.04
Preload class A	62 N/micron
Preload class B	84 N/micron
Preload class C	115 N/micron
Preload class D	164 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4



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Material - Ball	Ceramic
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 Capacity Basic Design
Long Description	65MM Bore; 90MM Outside Diameter; 13MM 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 Ra
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Ball Angular Contact
Manufacturer URL	http://www.skf.com
Bore	2.559 Inch 65 Millimeter
Outside Diameter	3.543 Inch 90 Millimeter
Width	0.512 Inch 13 Millimeter
d ₁	72.7 mm
d ₂	72.7 mm
D ₁	82.3 mm
r _{1,2} min.	1 mm
r _{3,4} min.	0.3 mm



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d_a min.	69.6 mm
d_b min.	69.6 mm
D_a max.	85.4 mm
D_b max.	88 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	74.7 mm
Basic dynamic load rating C	20.8 kN
Basic static load rating C_0	17 kN
Fatigue load limit P_u	0.71 kN
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-air lubrication	26000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	26
Reference grease quantity G_{ref}	2.85 cm ³
Preload class A G_A	80 N
Static axial stiffness, preload class A	62 N/μm
Preload class B G_B	160 N
Static axial stiffness, preload class B	84 N/μm
Preload class C G_C	320 N
Static axial stiffness, preload class C	115 N/μm
Preload class D G_D	640 N
Static axial stiffness, preload class D	164 N/μm
Calculation factor f	1.2
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07



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Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.18
Calculation factor f_{HC}	1.04
Calculation factor f_0	10.7
Mass bearing	0.17 kg