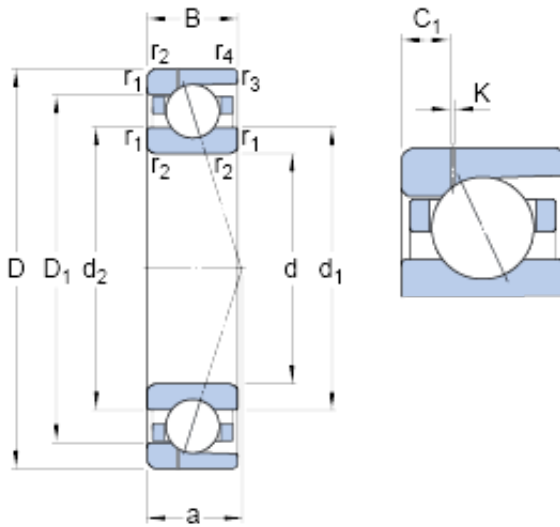




Zaozhuang Yiding Bearing Co., Ltd.



190 mm x 290 mm x 46 mm SKF 7038
CD/P4AH1 angular contact ball bearings

Bearing No. 7038 CD/P4AH1

7038 CD/P4AH1 Bearing 2D drawings and 3D CAD models

Size	290x190x46 mm
Bore Diameter	290 mm
Outer Diameter	190 mm
Width	46 mm
d	190 mm
D	290 mm
B	46 mm
d ₁	221.8 mm
d ₂	221.8 mm
D ₁	258.2 mm
K	0.6 mm
C ₁	13.4 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	55.3 mm
d _a - min.	201 mm
d _b - min.	201 mm
D _a - max.	279 mm
D _b - max.	284 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	229.7 mm
Basic dynamic load rating - C	247 kN
Basic static load rating - C ₀	305 kN



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Fatigue load limit - P_u	8.3 kN
Limiting speed for grease lubrication	4800 r/min
Limiting speed for oil lubrication	7000 mm/min
Ball - D_w	30.162 mm
Ball - z	22
G_{ref}	114 cm ³
Calculation factor - f_0	15.9
Preload class A - G_A	950 N
Preload class B - G_B	1900 N
Preload class C - G_C	3800 N
Preload class D - G_D	7600 N
Calculation factor - f	1.14
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	196 N/micron
Preload class B	266 N/micron
Preload class C	370 N/micron
Preload class D	532 N/micron
d_1	221.8 mm
d_2	221.8 mm
D_1	258.2 mm
C_1	13.4 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a min.	201 mm



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d_b min.	201 mm
D_a max.	279 mm
D_b max.	284 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	229.7 mm
Basic dynamic load rating C	247 kN
Basic static load rating C_0	305 kN
Fatigue load limit P_u	8.3 kN
Attainable speed for grease lubrication	4800 r/min
Attainable speed for oil-air lubrication	7000 r/min
Ball diameter D_w	30.162 mm
Number of balls z	22
Reference grease quantity G_{ref}	114 cm ³
Preload class A G_A	950 N
Static axial stiffness, preload class A	196 N/ μ m
Preload class B G_B	1900 N
Static axial stiffness, preload class B	266 N/ μ m
Preload class C G_C	3800 N
Static axial stiffness, preload class C	370 N/ μ m
Preload class D G_D	7600 N
Static axial stiffness, preload class D	532 N/ μ m
Calculation factor f	1.14
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



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Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1
Calculation factor f_0	15.9
Mass bearing	9.51 kg