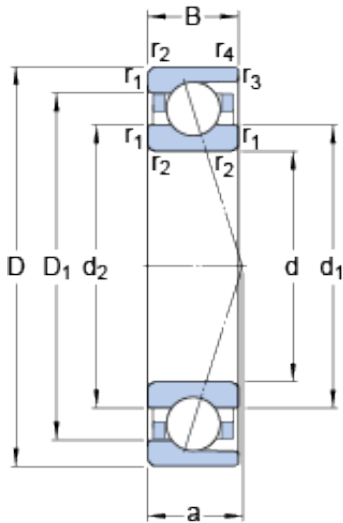




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71938 CD/HCP4A Bearing 2D drawings and 3D CAD models

190 mm x 260 mm x 33 mm SKF 71938
CD/HCP4A angular contact ball bearings

Bearing No. 71938 CD/HCP4A

Size	260x190x33 mm
Bore Diameter	260 mm
Outer Diameter	190 mm
Width	33 mm
d	190 mm
D	260 mm
B	33 mm
d ₁	211.6 mm
d ₂	211.6 mm
D ₁	238.4 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	46.8 mm
d _a - min.	199 mm
d _b - min.	199 mm
D _a - max.	251 mm
D _b - max.	255 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	217.4 mm
Basic dynamic load rating - C	172 kN
Basic static load rating - C ₀	220 kN
Fatigue load limit - P _u	6.2 kN
Limiting speed for grease	6300 r/min



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Lubrication	
Limiting speed for oil lubrication	9000 mm/min
Ball - D_w	22.225 mm
Ball - z	28
G_{ref}	57 cm3
Calculation factor - f_0	16.4
Preload class A - G_A	640 N
Preload class B - G_B	1280 N
Preload class C - G_C	2560 N
Preload class D - G_D	5120 N
Calculation factor - f	1.27
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	210 N/micron
Preload class B	288 N/micron
Preload class C	408 N/micron
Preload class D	597 N/micron
d_1	211.6 mm
d_2	211.6 mm
D_1	238.4 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	199 mm
d_b min.	199 mm
D_a max.	251 mm



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D_b max.	255 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	217.4 mm
Basic dynamic load rating C	172 kN
Basic static load rating C_0	220 kN
Fatigue load limit P_u	6.2 kN
Attainable speed for grease lubrication	6300 r/min
Attainable speed for oil-air lubrication	9000 r/min
Ball diameter D_w	22.225 mm
Number of balls z	28
Reference grease quantity G_{ref}	57 cm ³
Preload class A G_A	640 N
Static axial stiffness, preload class A	210 N/ μ m
Preload class B G_B	1280 N
Static axial stiffness, preload class B	288 N/ μ m
Preload class C G_C	2560 N
Static axial stiffness, preload class C	408 N/ μ m
Preload class D G_D	5120 N
Static axial stiffness, preload class D	597 N/ μ m
Calculation factor f	1.27
Calculation factor f_1	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



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Calculation factor f_0	16.4
Mass bearing	3.64 kg