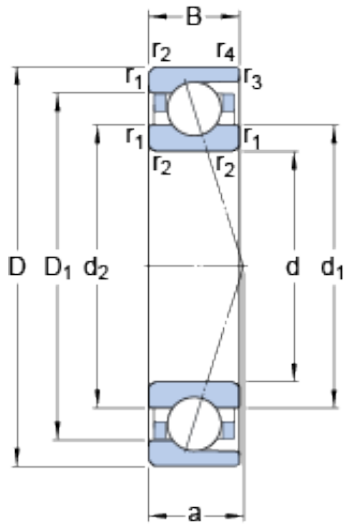




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71938 ACD/HCP4A Bearing 2D drawings and 3D CAD models

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

Bearing No. 71938 ACD/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	69.2 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	163 kN
Basic static load rating - C ₀	208 kN
Fatigue load limit - P _u	5.8 kN
Limiting speed for grease	5300 r/min



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Lubrication	
Limiting speed for oil lubrication	8000 mm/min
Ball - D_w	22.225 mm
Ball - z	28
G_{ref}	57 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	1000 N
Preload class B - G_B	2000 N
Preload class C - G_C	4000 N
Preload class D - G_D	8000 N
Calculation factor - f	1.27
Calculation factor - f_1	0.98
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.17
Calculation factor - f_{HC}	1.04
Preload class A	505 N/micron
Preload class B	665 N/micron
Preload class C	886 N/micron
Preload class D	1210 N/micron



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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
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	163 kN
Basic static load rating C_0	208 kN
Fatigue load limit P_u	5.85 kN
Attainable speed for grease lubrication	5300 r/min
Attainable speed for oil-air lubrication	8000 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	1000 N
Static axial stiffness, preload class A	505 N/ μ m
Preload class B G_B	2000 N
Static axial stiffness, preload class B	665 N/ μ m
Preload class C G_C	4000 N
Static axial stiffness, preload class C	886 N/ μ m
Preload class D G_D	8000 N
Static axial stiffness, preload class D	1210 N/ μ m



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class D	
Calculation factor f	1.27
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.17
Calculation factor f_{HC}	1.04
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	3.64 kg