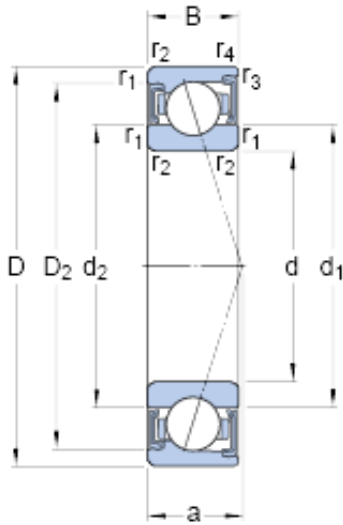




BEARING DRIVESHAFT, INC.



10 mm x 22 mm x 6 mm SKF S71900
ACD/HCP4A angular contact ball bearings

Bearing No. S71900 ACD/HCP4A

S71900 ACD/HCP4A Bearing 2D drawings and 3D
CAD models

Size	22x10x6 mm
Bore Diameter	22 mm
Outer Diameter	10 mm
Width	6 mm
d	10 mm
D	22 mm
B	6 mm
d ₁	14 mm
d ₂	14 mm
D ₂	19.8 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	6.8 mm
d _a - min.	12 mm
d _a - max.	13.6 mm
d _b - min.	12 mm
d _b - max.	13.6 mm
D _a - max.	20 mm
D _b - max.	20.6 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
Basic dynamic load rating - C	2.4 kN
Basic static load rating - C ₀	1.1 kN
Fatigue load limit - P _u	0.045 kN



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Limiting speed for grease lubrication	70000 r/min
Ball - D_w	3.175 mm
Ball - z	12
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	15 N
Preload class B - G_B	30 N
Preload class C - G_C	60 N
Preload class D - G_D	120 N
Calculation factor - f	1.03
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	32 N/micron
Preload class B	42 N/micron
Preload class C	54 N/micron
Preload class D	72 N/micron
d_1	14 mm
d_2	14 mm
D_2	19.8 mm



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$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	12 mm
d_a max.	13.6 mm
d_b min.	12 mm
d_b max.	13.6 mm
D_a max.	20 mm
D_b max.	20.6 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
Basic dynamic load rating C	2.42 kN
Basic static load rating C_0	1.06 kN
Fatigue load limit P_u	0.045 kN
Attainable speed for grease lubrication	70000 r/min
Ball diameter D_w	3.175 mm
Number of balls z	12
Preload class A G_A	15 N
Static axial stiffness, preload class A	32 N/ μ m
Preload class B G_B	30 N
Static axial stiffness, preload class B	42 N/ μ m
Preload class C G_C	60 N
Static axial stiffness, preload class C	54 N/ μ m
Preload class D G_D	120 N
Static axial stiffness, preload class D	72 N/ μ m
Calculation factor f	1.03
Calculation factor f_1	0.98
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12



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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	0.009 kg