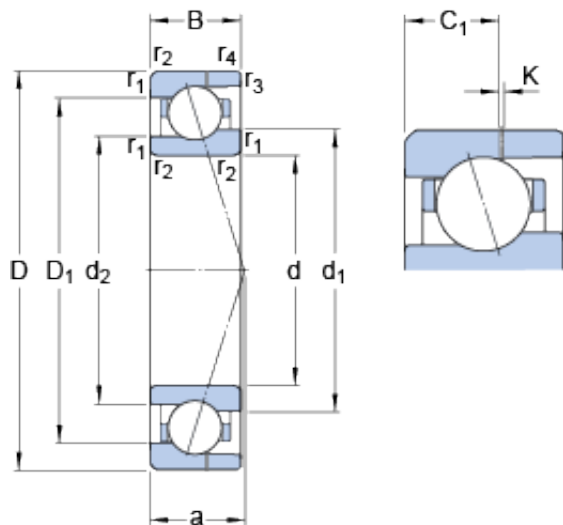




ISOSTATIC BEARING LIMITED

71903 ACE/P4AH SKF High Speed Angular Contact Ball Bearings

Bearing No. 71903 ACE/P4AH



71903 ACE/P4AH Bearing 2D drawings and 3D CAD models

Size	30x17x7 mm
Bore Diameter	30 mm
Outer Diameter	17 mm
Width	7 mm
d	17 mm
D	30 mm
B	7 mm
d ₁	21.1 mm
d ₂	20.1 mm
D ₁	25.9 mm
K	0.5 mm
C ₁	4.35 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	9.6 mm
d _a - min.	19 mm
d _b - min.	19 mm
D _a - max.	28 mm
D _b - max.	29.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	22 mm
Basic dynamic load rating - C	3.2 kN
Basic static load rating - C ₀	1.5 kN



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Fatigue load limit - P_u	0.063 kN
Limiting speed for grease lubrication	63000 r/min
Limiting speed for oil lubrication	95000 mm/min
Ball - D_w	3.969 mm
Ball - z	13
G_{ref}	0.2 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	29 N
Preload class B - G_B	87 N
Preload class C - G_C	175 N
Calculation factor - f	1.05
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.04
Calculation factor - f_{2C}	1.07
Calculation factor - f_{HC}	1
Preload class A	35 N/micron
Preload class B	55 N/micron
Preload class C	71 N/micron
d_1	21.1 mm
d_2	20.1 mm



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D_1	25.9 mm
C_1	4.35 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	19 mm
d_b min.	19 mm
D_a max.	28 mm
D_b max.	29.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	22 mm
Basic dynamic load rating C	3.19 kN
Basic static load rating C_0	1.46 kN
Fatigue load limit P_u	0.063 kN
Attainable speed for grease lubrication	63000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	13
Reference grease quantity G_{ref}	0.2 cm ³
Preload class A G_A	29 N
Static axial stiffness, preload class A	35 N/ μ m
Preload class B G_B	87 N
Static axial stiffness, preload class B	55 N/ μ m
Preload class C G_C	175 N
Static axial stiffness, preload class C	71 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	0.99
Calculation factor f_{2A}	1



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Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.07
Calculation factor f_{HC}	1
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	0.016 kg