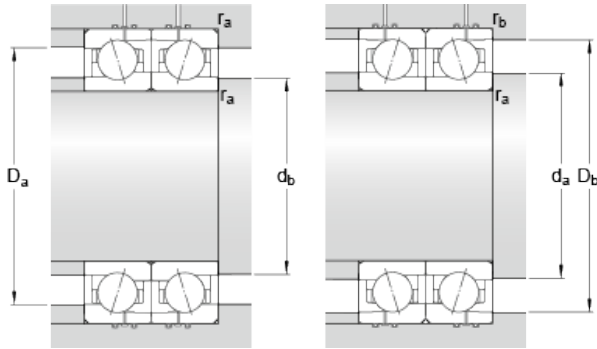




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SKF 71900 ACE/P4AH Angular Contact Ball Bearings, Super-Precision

Bearing No. 71900 ACE/P4AH

71900 ACE/P4AH Bearing 2D drawings and 3D CAD models

d	10 mm
D	22 mm
B	6 mm
d ₁	14 mm
d ₂	13.26 mm
D ₁	17.92 mm
K	0.5 mm
C ₁	3.65 mm
r _{1,2} min.	0.3 mm
r _{3,4} min.	0.15 mm
a	7.2 mm
d _a min.	12 mm
d _b min.	12 mm
D _a max.	20 mm
D _b max.	21.2 mm
r _a max.	0.3 mm
r _b max.	0.15 mm
d _n	14.8 mm
Basic dynamic load rating C	1.95 kN
Basic static load rating C ₀	0.78 kN
Fatigue load limit P _u	0.032 kN
Attainable speed for grease lubrication	93000 r/min
Attainable speed for oil-air lubrication	140000 r/min
Ball diameter D _w	3.175 mm



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Number of balls z	11
Reference grease quantity G_{ref}	0.1 cm ³
Preload class A G_A	17 N
Static axial stiffness, preload class A	25 N/ μ m
Preload class B G_B	50 N
Static axial stiffness, preload class B	37 N/ μ m
Preload class C G_C	100 N
Static axial stiffness, preload class C	48 N/ μ m
Calculation factor f	1.03
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
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