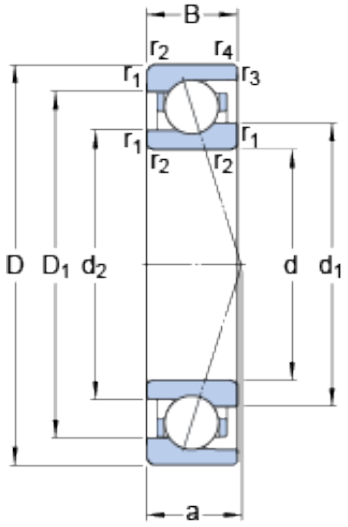
Loyal | 71900 ACE/HCP4A



Bearing No. 71900 ACE/HCP4A

D	22 mm
d	10 mm
B	6 mm
a	7.2 mm
Ball - z	11
Size (mm)	22x10x6
Width (mm)	6
Mass bearing	0.008 kg
d_n	14.8 mm
d_n	14.8 mm
D_1	17.92 mm
d_1	14 mm
d_2	13.26 mm
D_1	17.92 mm
d_2	13.26 mm
d_1	14 mm
Bearing number	71900 ACE/HCP4A
Preload class A	28 N/micron
G_{ref}	0.1 cm3
Preload class C	54 N/micron
Preload class B	41 N/micron
Number of balls z	11
Bore Diameter (mm)	22
r_b max.	0.15 mm
r_a max.	0.3 mm
D_b max.	21.2 mm
D_a max.	20 mm
d_a min.	12 mm
d_b min.	12 mm

Outer Diameter (mm)	10
D_b - max.	21.2 mm
d_a - min.	12 mm
Calculation factor e	0.68
Calculation factor f	1.03
r_b - max.	0.15 mm
D_a - max.	20 mm
r_a - max.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$r_{1,2}$ min.	0.3 mm
Ball - D_w	3.175 mm
d_b - min.	12 mm
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.15 mm
Calculation factor - e	0.68
Calculation factor - f	1.03
Basic dynamic load rating C	1.95 kN
Ball diameter D_w	3.175 mm
Preload class B G_B	50 N
Preload class C G_C	100 N
Basic dynamic load rating - C	2 kN
Preload class A G_A	17 N
Preload class B - G_B	50 N
Preload class C - G_C	100 N
Preload class A - G_A	17 N
Fatigue load limit P_u	0.032 kN
Calculation factor f_1	0.98
Calculation factor f_{2C}	1.08
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01

Calculation factor f_{2B}	1.04
Limiting speed for oil lubrication	165000 mm/min
Fatigue load limit - P_u	0.032 kN
Calculation factor - f_1	0.98
Calculation factor - Y_2	1.41
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - Y_0	0.76
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.08
Calculation factor - f_{2B}	1.04
Limiting speed for grease lubrication	109000 r/min
Basic static load rating C_0	0.78 kN
Static axial stiffness, preload class B	41 N/µm
Static axial stiffness, preload class A	28 N/µm
Attainable speed for grease lubrication	109000 r/min
Static axial stiffness, preload class C	54 N/µm
Basic static load rating - C_0	0.78 kN
Attainable speed for oil-air lubrication	165000 r/min
Reference grease quantity G_{ref}	0.1 cm³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor	0.38

(single, tandem) Y_0	
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