



**15 mm x 32 mm x 9 mm SKF 7002 ACE/P4A
angular contact ball bearings**

Bearing No. 7002 ACE/P4A

7002 ACE/P4A Bearing 2D drawings and 3D CAD models

Size	32x15x9 mm
Bore Diameter	32 mm
Outer Diameter	15 mm
Width	9 mm
d	15 mm
D	32 mm
B	9 mm
d ₁	20.65 mm
d ₂	19.5 mm
D ₁	26.9 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	10.1 mm
d _a - min.	17 mm
d _b - min.	17 mm
D _a - max.	30 mm
D _b - max.	30.6 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	21.9 mm
Basic dynamic load rating - C	4.2 kN
Basic static load rating - C ₀	1.8 kN
Fatigue load limit - P _u	0.078 kN
Limiting speed for grease	63000 r/min



BEARING MANUFACTURING DE MEXICO,S.A.D...

Lubrication	
Limiting speed for oil lubrication	95000 mm/min
Ball - D_w	4.762 mm
Ball - z	12
G_{ref}	0.5 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	38 N
Preload class B - G_B	115 N
Preload class C - G_C	230 N
Calculation factor - f	1.03
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.06
Calculation factor - f_{HC}	1
Preload class A	40 N/micron
Preload class B	59 N/micron
Preload class C	66 N/micron
d_1	20.65 mm
d_2	19.5 mm
D_1	26.9 mm
$r_{1,2}$ min.	0.3 mm



BEARING MANUFACTURING DE MEXICO, S.A.D...

$r_{3,4}$ min.	0.15 mm
d_a min.	17 mm
d_b min.	17 mm
D_a max.	30 mm
D_b max.	30.6 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	21.9 mm
Basic dynamic load rating C	4.23 kN
Basic static load rating C_0	1.83 kN
Fatigue load limit P_u	0.078 kN
Attainable speed for grease lubrication	63000 r/min
Attainable speed for oil-air lubrication	95000 r/min
Ball diameter D_w	4.762 mm
Number of balls z	12
Reference grease quantity G_{ref}	0.5 cm ³
Preload class A G_A	38 N
Static axial stiffness, preload class A	40 N/ μ m
Preload class B G_B	115 N
Static axial stiffness, preload class B	59 N/ μ m
Preload class C G_C	230 N
Static axial stiffness, preload class C	66 N/ μ m
Calculation factor f	1.03
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.06
Calculation factor f_{HC}	1



BEARING MANUFACTURING DE MEXICO,S.A.D...

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	0.028 kg