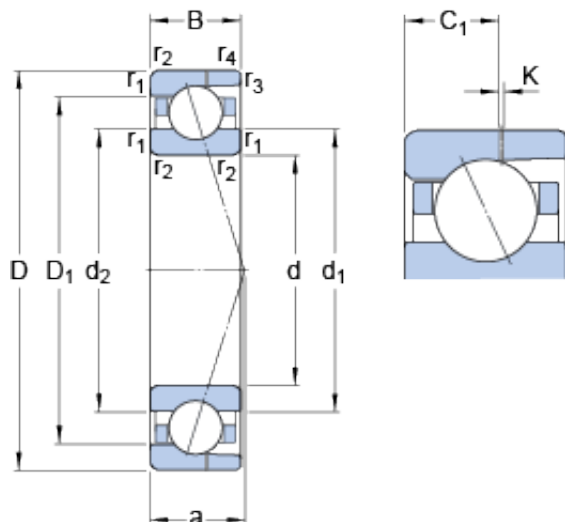




BEARING-MALAYSIA SDN.BHD.



25 mm x 47 mm x 12 mm SKF 7005 ACD/HCP4AH angular contact ball bearings

Bearing No. 7005 ACD/HCP4AH

7005 ACD/HCP4AH Bearing 2D drawings and 3D
CAD models

Size	47x25x12 mm
Bore Diameter	47 mm
Outer Diameter	25 mm
Width	12 mm
d	25 mm
D	47 mm
B	12 mm
d ₁	32.1 mm
d ₂	32.1 mm
D ₁	39.9 mm
K	0.5 mm
C ₁	7.25 mm
r _{1,2} - min.	0.6 mm
r _{3,4} - min.	0.3 mm
a	14.5 mm
d _a - min.	28.2 mm
d _b - min.	28.2 mm
D _a - max.	43.8 mm
D _b - max.	45 mm
r _a - max.	0.6 mm
r _b - max.	0.3 mm
d _n	33.4 mm
Basic dynamic load rating - C	9.2 kN
Basic static load rating - C ₀	5 kN



BEARING-MALAYSIA SDN.BHD.

Fatigue load limit - P_u	0.212 kN
Limiting speed for grease lubrication	40000 r/min
Limiting speed for oil lubrication	60000 mm/min
Ball - D_w	6.35 mm
Ball - z	14
G_{ref}	1.02 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	60 N
Preload class B - G_B	120 N
Preload class C - G_C	240 N
Preload class D - G_D	480 N
Calculation factor - f	1.05
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1.02
Preload class A	71 N/micron
Preload class B	92 N/micron
Preload class C	119 N/micron



BEARING-MALAYSIA SDN.BHD.

Preload class D	159 N/micron
d_1	32.1 mm
d_2	32.1 mm
D_1	39.9 mm
C_1	7.25 mm
$r_{1,2}$ min.	0.6 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	28.2 mm
d_b min.	28.2 mm
D_a max.	43.8 mm
D_b max.	45 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
d_n	33.4 mm
Basic dynamic load rating C	9.23 kN
Basic static load rating C_0	5 kN
Fatigue load limit P_u	0.212 kN
Attainable speed for grease lubrication	40000 r/min
Attainable speed for oil-air lubrication	60000 r/min
Ball diameter D_w	6.35 mm
Number of balls z	14
Reference grease quantity G_{ref}	1.02 cm ³
Preload class A G_A	60 N
Static axial stiffness, preload class A	71 N/ μ m
Preload class B G_B	120 N
Static axial stiffness, preload class B	92 N/ μ m
Preload class C G_C	240 N
Static axial stiffness, preload class C	119 N/ μ m



BEARING-MALAYSIA SDN.BHD.

Preload class D G_D	480 N
Static axial stiffness, preload class D	159 N/ μ m
Calculation factor f	1.05
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1.02
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	0.07 kg