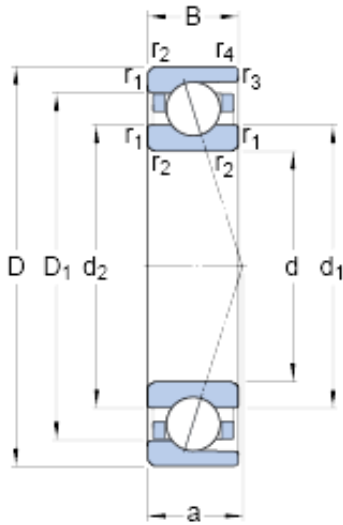




BEARING-MALAYSIA SDN.BHD.



7020 ACD/HCP4A Bearing 2D drawings and 3D CAD models

100 mm x 150 mm x 24 mm SKF 7020
ACD/HCP4A angular contact ball bearings

Bearing No. 7020 ACD/HCP4A

Size	150x100x24 mm
Bore Diameter	150 mm
Outer Diameter	100 mm
Width	24 mm
d	100 mm
D	150 mm
B	24 mm
d ₁	115.4 mm
d ₂	115.4 mm
D ₁	134.6 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
a	41.3 mm
d _a - min.	107 mm
d _b - min.	107 mm
D _a - max.	143 mm
D _b - max.	146 mm
r _a - max.	1.5 mm
r _b - max.	1 mm
d _n	118.7 mm
Basic dynamic load rating - C	79.3 kN
Basic static load rating - C ₀	80 kN
Fatigue load limit - P _u	3 kN
Limiting speed for grease	9500 r/min



BEARING-MALAYSIA SDN.BHD.

Lubrication	
Limiting speed for oil lubrication	15000 mm/min
Ball - D_w	15.875 mm
Ball - z	22
G_{ref}	16.2 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	500 N
Preload class B - G_B	1000 N
Preload class C - G_C	2000 N
Preload class D - G_D	4000 N
Calculation factor - f	1.16
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	300 N/micron
Preload class B	394 N/micron
Preload class C	524 N/micron
Preload class D	710 N/micron



BEARING-MALAYSIA SDN.BHD.

d_1	115.4 mm
d_2	115.4 mm
D_1	134.6 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a min.	107 mm
d_b min.	107 mm
D_a max.	143 mm
D_b max.	146 mm
r_a max.	1.5 mm
r_b max.	1 mm
d_n	118.7 mm
Basic dynamic load rating C	79.3 kN
Basic static load rating C_0	80 kN
Fatigue load limit P_u	3.05 kN
Attainable speed for grease lubrication	9500 r/min
Attainable speed for oil-air lubrication	15000 r/min
Ball diameter D_w	15.875 mm
Number of balls z	22
Reference grease quantity G_{ref}	16.2 cm ³
Preload class A G_A	500 N
Static axial stiffness, preload class A	300 N/ μ m
Preload class B G_B	1000 N
Static axial stiffness, preload class B	394 N/ μ m
Preload class C G_C	2000 N
Static axial stiffness, preload class C	524 N/ μ m
Preload class D G_D	4000 N
Static axial stiffness, preload class D	710 N/ μ m



BEARING-MALAYSIA SDN.BHD.

class D	
Calculation factor f	1.16
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	1.05 kg