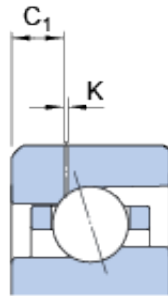
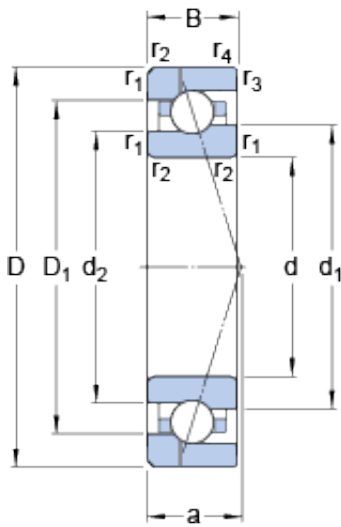




## DEARING OF AMERICA CORP.



100 mm x 150 mm x 24 mm SKF 7020  
ACE/P4AH1 angular contact ball bearings

Bearing No. 7020 ACE/P4AH1

7020 ACE/P4AH1 Bearing 2D drawings and 3D CAD models

Size	150x100x24 mm
Bore Diameter	150 mm
Outer Diameter	100 mm
Width	24 mm
d	100 mm
D	150 mm
B	24 mm
d <sub>1</sub>	117.38 mm
d <sub>2</sub>	114.2 mm
D <sub>1</sub>	132.61 mm
K	0.5 mm
C <sub>1</sub>	7.82 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	1 mm
a	41.4 mm
d <sub>a</sub> - min.	107 mm
d <sub>b</sub> - min.	107 mm
D <sub>a</sub> - max.	143 mm
D <sub>b</sub> - max.	144.4 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	120.4 mm
Basic dynamic load rating - C	42.3 kN
Basic static load rating - C <sub>0</sub>	38 kN



## DEARING OF AMERICA CORP.

Fatigue load limit - $P_u$	1.4 kN
Limiting speed for grease lubrication	11200 r/min
Limiting speed for oil lubrication	17500 mm/min
Ball - $D_w$	12.7 mm
Ball - $z$	27
$G_{ref}$	17 cm <sup>3</sup>
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 - $G_A$	390 N
Preload class B - $G_B$	1150 N
Preload class C - $G_C$	2310 N
Calculation factor - $f$	1.12
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	220 N/micron
Preload class B	330 N/micron
Preload class C	435 N/micron
$d_1$	117.38 mm
$d_2$	114.2 mm



## DEARING OF AMERICA CORP.

$D_1$	132.61 mm
$C_1$	7.82 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.	144.4 mm
$r_a$ max.	1.5 mm
$r_b$ max.	1 mm
$d_n$	120.4 mm
Basic dynamic load rating C	42.3 kN
Basic static load rating $C_0$	38 kN
Fatigue load limit $P_u$	1.43 kN
Attainable speed for grease lubrication	11200 r/min
Attainable speed for oil-air lubrication	17500 r/min
Ball diameter $D_w$	12.7 mm
Number of balls z	27
Reference grease quantity $G_{ref}$	17 cm <sup>3</sup>
Preload class A $G_A$	390 N
Static axial stiffness, preload class A	220 N/ $\mu$ m
Preload class B $G_B$	1150 N
Static axial stiffness, preload class B	330 N/ $\mu$ m
Preload class C $G_C$	2310 N
Static axial stiffness, preload class C	435 N/ $\mu$ m
Calculation factor f	1.12
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1



## DEARING OF AMERICA CORP.

Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.06
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	1.26 kg