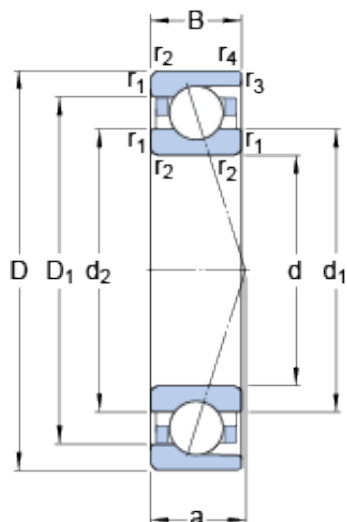




# UNF BRAINGS SALES JAPAN CO.,LTD.



## 160 mm x 220 mm x 28 mm SKF 71932 ACD/HCP4A Double Row Cylindrical Roller Bearings

Bearing No. 71932 ACD/HCP4A

Size	220x160x28 mm
Bore Diameter	220 mm
Outer Diameter	160 mm
Width	28 mm
d	160 mm
D	220 mm
B	28 mm
d <sub>1</sub>	178.5 mm
d <sub>2</sub>	178.5 mm
D <sub>1</sub>	201.5 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	58.5 mm
d <sub>a</sub> - min.	169 mm
d <sub>b</sub> - min.	169 mm
D <sub>a</sub> - max.	211 mm
D <sub>b</sub> - max.	215 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	183.5 mm
Basic dynamic load rating - C	124 kN
Basic static load rating - C <sub>0</sub>	153 kN
Fatigue load limit - P <sub>u</sub>	4.8 kN

71932 ACD/HCP4A Bearing 2D drawings and 3D CAD models



## UNF BRAINGS SALES JAPAN CO.,LTD.

Limiting speed for grease lubrication	6300 r/min
Limiting speed for oil lubrication	9500 mm/min
Ball - $D_w$	19.05 mm
Ball - $z$	28
$G_{ref}$	33 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 - $G_A$	800 N
Preload class B - $G_B$	1600 N
Preload class C - $G_C$	3200 N
Preload class D - $G_D$	6400 N
Calculation factor - $f$	1.27
Calculation factor - $f_1$	0.98
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.07
Calculation factor - $f_{2C}$	1.12
Calculation factor - $f_{2D}$	1.17
Calculation factor - $f_{HC}$	1.04
Preload class A	446 N/micron
Preload class B	588 N/micron
Preload class C	788 N/micron
Preload class D	1076 N/micron



## UNF BRAINGS SALES JAPAN CO.,LTD.

$d_1$	178.5 mm
$d_2$	178.5 mm
$D_1$	201.5 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	169 mm
$d_b$ min.	169 mm
$D_a$ max.	211 mm
$D_b$ max.	215 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	183.5 mm
Basic dynamic load rating C	124 kN
Basic static load rating $C_0$	153 kN
Fatigue load limit $P_u$	4.75 kN
Attainable speed for grease lubrication	6300 r/min
Attainable speed for oil-air lubrication	9500 r/min
Ball diameter $D_w$	19.05 mm
Number of balls z	28
Reference grease quantity $G_{ref}$	33 cm <sup>3</sup>
Preload class A $G_A$	800 N
Static axial stiffness, preload class A	446 N/ $\mu$ m
Preload class B $G_B$	1600 N
Static axial stiffness, preload class B	588 N/ $\mu$ m
Preload class C $G_C$	3200 N
Static axial stiffness, preload class C	788 N/ $\mu$ m
Preload class D $G_D$	6400 N
Static axial stiffness, preload class D	1076 N/ $\mu$ m



## UNF BRAINGS SALES JAPAN CO.,LTD.

class D	
Calculation factor f	1.27
Calculation factor $f_1$	0.98
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{2D}$	1.17
Calculation factor $f_{HC}$	1.04
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	2.23 kg