



# Huaxin Bearing Co., Ltd



71832 ACD/HCP4 Bearing 2D drawings and 3D CAD models

## 160 mm x 200 mm x 20 mm SKF 71832 ACD/HCP4 angular contact ball bearings

Bearing No. 71832 ACD/HCP4

Size	200x160x20 mm
Bore Diameter	200 mm
Outer Diameter	160 mm
Width	20 mm
d	160 mm
D	200 mm
B	20 mm
d <sub>1</sub>	173.35 mm
d <sub>2</sub>	173.35 mm
D <sub>1</sub>	186.7 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	52.1 mm
d <sub>a</sub> - min.	166 mm
d <sub>b</sub> - min.	166 mm
D <sub>a</sub> - max.	194 mm
D <sub>b</sub> - max.	196.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	175.6 mm
Basic dynamic load rating - C	50.7 kN
Basic static load rating - C <sub>0</sub>	75 kN
Fatigue load limit - P <sub>u</sub>	2.4 kN
Limiting speed for grease	6000 r/min



## Huaxin Bearing Co., Ltd

Lubrication	
Limiting speed for oil lubrication	9500 mm/min
Ball - $D_w$	11.112 mm
Ball - $z$	38
$G_{ref}$	14 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 - $G_A$	450 N
Preload class B - $G_B$	1350 N
Preload class C - $G_C$	2690 N
Calculation factor - $f$	1.42
Calculation factor - $f_1$	0.97
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.09
Calculation factor - $f_{2C}$	1.17
Calculation factor - $f_{HC}$	1.02
Preload class A	390 N/micron
Preload class B	617 N/micron
Preload class C	848 N/micron
$d_1$	173.35 mm
$d_2$	173.35 mm
$D_1$	186.7 mm
$r_{1,2}$ min.	1.1 mm



## Huaxin Bearing Co., Ltd

$r_{3,4}$ min.	0.6 mm
$d_a$ min.	166 mm
$d_b$ min.	166 mm
$D_a$ max.	194 mm
$D_b$ max.	196.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	175.6 mm
Basic dynamic load rating C	50.7 kN
Basic static load rating $C_0$	75 kN
Fatigue load limit $P_u$	2.36 kN
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	9500 r/min
Ball diameter $D_w$	11.112 mm
Number of balls z	38
Reference grease quantity $G_{ref}$	14 cm <sup>3</sup>
Preload class A $G_A$	450 N
Static axial stiffness, preload class A	390 N/ $\mu$ m
Preload class B $G_B$	1350 N
Static axial stiffness, preload class B	617 N/ $\mu$ m
Preload class C $G_C$	2690 N
Static axial stiffness, preload class C	848 N/ $\mu$ m
Calculation factor f	1.42
Calculation factor $f_1$	0.97
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.09
Calculation factor $f_{2C}$	1.17
Calculation factor $f_{HC}$	1.02



## Huaxin Bearing Co., Ltd

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	1.1 kg