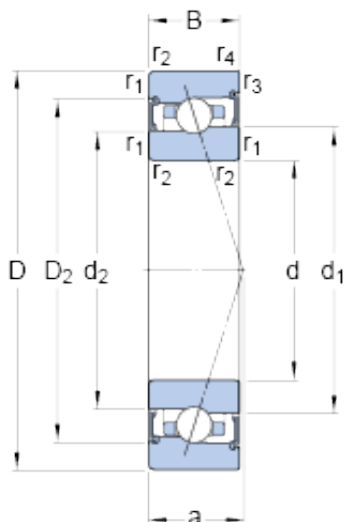




# NACHI BEARINGS TRAINING INDUSTRY



110 mm x 150 mm x 20 mm SKF S71922  
ACB/HCP4A angular contact ball bearings

Bearing No. S71922 ACB/HCP4A

S71922 ACB/HCP4A Bearing 2D drawings and 3D CAD models

Size	150x110x20 mm
Bore Diameter	150 mm
Outer Diameter	110 mm
Width	20 mm
d	110 mm
D	150 mm
B	20 mm
d <sub>1</sub>	124.42 mm
d <sub>2</sub>	122.5 mm
D <sub>2</sub>	139 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	46.9 mm
d <sub>a</sub> - min.	116 mm
d <sub>a</sub> - max.	123.8 mm
d <sub>b</sub> - min.	116 mm
d <sub>b</sub> - max.	121.9 mm
D <sub>a</sub> - max.	144 mm
D <sub>b</sub> - max.	146.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	24.7 kN
Basic static load rating - C <sub>0</sub>	25.5 kN
Fatigue load limit - P <sub>u</sub>	0.95 kN



## NACHI BEARINGS TRAINING INDUSTRY

Limiting speed for grease lubrication	12000 r/min
Ball - $D_w$	8.731 mm
Ball - $z$	37
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 - $G_A$	145 N
Preload class B - $G_B$	290 N
Preload class C - $G_C$	870 N
Calculation factor - $f$	1.14
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.08
Calculation factor - $f_{HC}$	1.01
Preload class A	192 N/micron
Preload class B	248 N/micron
Preload class C	379 N/micron
$d_1$	124.42 mm
$d_2$	122.5 mm
$D_2$	139 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	116 mm



## NACHI BEARINGS TRAINING INDUSTRY

$d_a$ max.	123.8 mm
$d_b$ min.	116 mm
$d_b$ max.	121.9 mm
$D_a$ max.	144 mm
$D_b$ max.	146.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	32.5 kN
Basic static load rating $C_0$	40.5 kN
Fatigue load limit $P_u$	0.95 kN
Attainable speed for grease lubrication	12000 r/min
Ball diameter $D_w$	8.731 mm
Number of balls z	37
Preload class A $G_A$	145 N
Static axial stiffness, preload class A	192 N/ $\mu$ m
Preload class B $G_B$	290 N
Static axial stiffness, preload class B	248 N/ $\mu$ m
Preload class C $G_C$	870 N
Static axial stiffness, preload class C	379 N/ $\mu$ m
Calculation factor f	1.14
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.08
Calculation factor $f_{HC}$	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor (single, tandem) $Y_0$	0.38



## NACHI BEARINGS TRAINING INDUSTRY

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	0.87 kg