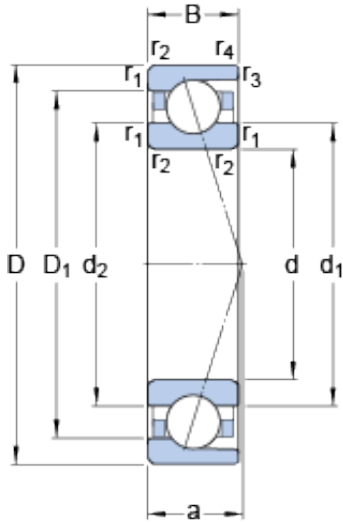




# EYA Bearing Roller Industry Co.,Ltd



71944 CD/HCP4A Bearing 2D drawings and 3D CAD models

## SKF 71944 CD/HCP4A angular contact ball bearings

Bearing No. 71944 CD/HCP4A

Size	300x220x38 mm
Bore Diameter	300 mm
Outer Diameter	220 mm
Width	38 mm
d	220 mm
D	300 mm
B	38 mm
d <sub>1</sub>	244.7 mm
d <sub>2</sub>	244.7 mm
D <sub>1</sub>	275.3 mm
r <sub>1,2</sub> - min.	2.1 mm
r <sub>3,4</sub> - min.	1 mm
a	54 mm
d <sub>a</sub> - min.	231 mm
d <sub>b</sub> - min.	231 mm
D <sub>a</sub> - max.	289 mm
D <sub>b</sub> - max.	295 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	251.4 mm
Basic dynamic load rating - C	221 kN
Basic static load rating - C <sub>0</sub>	300 kN
Fatigue load limit - P <sub>u</sub>	7.8 kN
Limiting speed for grease	5300 r/min



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Lubrication	
Limiting speed for oil lubrication	7500 mm/min
Ball - $D_w$	25.4 mm
Ball - $z$	29
$G_{ref}$	84 cm <sup>3</sup>
Calculation factor - $f_0$	16.5
Preload class A - $G_A$	850 N
Preload class B - $G_B$	1700 N
Preload class C - $G_C$	3400 N
Preload class D - $G_D$	6800 N
Calculation factor - $f$	1.28
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.07
Calculation factor - $f_{2C}$	1.12
Calculation factor - $f_{2D}$	1.18
Calculation factor - $f_{HC}$	1.04
Preload class A	248 N/micron
Preload class B	340 N/micron
Preload class C	481 N/micron
Preload class D	705 N/micron
$d_1$	244.7 mm
$d_2$	244.7 mm
$D_1$	275.3 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	231 mm
$d_b$ min.	231 mm
$D_a$ max.	289 mm



## EYA Bearing Roller Industry Co.,Ltd

$D_b$ max.	295 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	251.4 mm
Basic dynamic load rating C	221 kN
Basic static load rating $C_0$	300 kN
Fatigue load limit $P_u$	7.8 kN
Attainable speed for grease lubrication	5300 r/min
Attainable speed for oil-air lubrication	7500 r/min
Ball diameter $D_w$	25.4 mm
Number of balls z	29
Reference grease quantity $G_{ref}$	84 cm <sup>3</sup>
Preload class A $G_A$	850 N
Static axial stiffness, preload class A	248 N/ $\mu$ m
Preload class B $G_B$	1700 N
Static axial stiffness, preload class B	340 N/ $\mu$ m
Preload class C $G_C$	3400 N
Static axial stiffness, preload class C	481 N/ $\mu$ m
Preload class D $G_D$	6800 N
Static axial stiffness, preload class D	705 N/ $\mu$ m
Calculation factor f	1.28
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12
Calculation factor $f_{2D}$	1.18
Calculation factor $f_{HC}$	1.04



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Calculation factor $f_0$	16.5
Mass bearing	5.56 kg