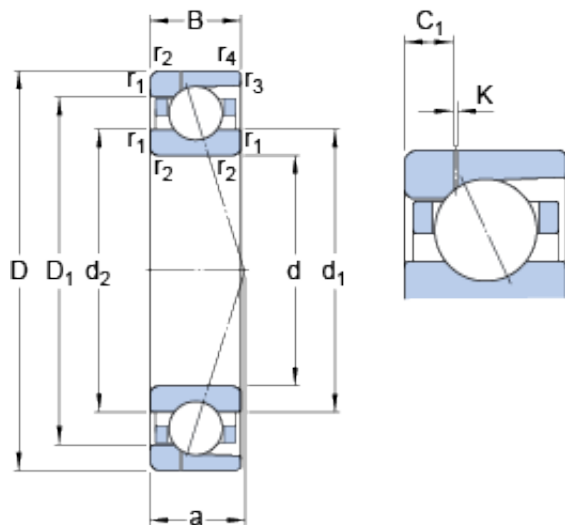




## Bearing Rolamentos do Brasil Ltda.



190 mm x 260 mm x 33 mm SKF 71938  
CD/HCP4AH1 angular contact ball bearings

Bearing No. 71938 CD/HCP4AH1

71938 CD/HCP4AH1 Bearing 2D drawings and 3D  
CAD models

Size	260x190x33 mm
Bore Diameter	260 mm
Outer Diameter	190 mm
Width	33 mm
d	190 mm
D	260 mm
B	33 mm
d <sub>1</sub>	211.6 mm
d <sub>2</sub>	211.6 mm
D <sub>1</sub>	238.4 mm
K	0.6 mm
C <sub>1</sub>	8.6 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	46.8 mm
d <sub>a</sub> - min.	199 mm
d <sub>b</sub> - min.	199 mm
D <sub>a</sub> - max.	251 mm
D <sub>b</sub> - max.	255 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	217.4 mm
Basic dynamic load rating - C	172 kN
Basic static load rating - C <sub>0</sub>	220 kN



## Bearing Rolamentos do Brasil Ltda.

Fatigue load limit - $P_u$	6.2 kN
Limiting speed for grease lubrication	6300 r/min
Limiting speed for oil lubrication	9000 mm/min
Ball - $D_w$	22.225 mm
Ball - $z$	28
$G_{ref}$	57 cm <sup>3</sup>
Calculation factor - $f_0$	16.4
Preload class A - $G_A$	640 N
Preload class B - $G_B$	1280 N
Preload class C - $G_C$	2560 N
Preload class D - $G_D$	5120 N
Calculation factor - $f$	1.27
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	210 N/micron
Preload class B	288 N/micron
Preload class C	408 N/micron
Preload class D	597 N/micron
$d_1$	211.6 mm
$d_2$	211.6 mm
$D_1$	238.4 mm
$C_1$	8.6 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
$d_a$ min.	199 mm



## Bearing Rolamentos do Brasil Ltda.

$d_b$ min.	199 mm
$D_a$ max.	251 mm
$D_b$ max.	255 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	217.4 mm
Basic dynamic load rating C	172 kN
Basic static load rating $C_0$	220 kN
Fatigue load limit $P_u$	6.2 kN
Attainable speed for grease lubrication	6300 r/min
Attainable speed for oil-air lubrication	9000 r/min
Ball diameter $D_w$	22.225 mm
Number of balls z	28
Reference grease quantity $G_{ref}$	57 cm <sup>3</sup>
Preload class A $G_A$	640 N
Static axial stiffness, preload class A	210 N/ $\mu$ m
Preload class B $G_B$	1280 N
Static axial stiffness, preload class B	288 N/ $\mu$ m
Preload class C $G_C$	2560 N
Static axial stiffness, preload class C	408 N/ $\mu$ m
Preload class D $G_D$	5120 N
Static axial stiffness, preload class D	597 N/ $\mu$ m
Calculation factor f	1.27
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.07
Calculation factor $f_{2C}$	1.12



## Bearing Rolamentos do Brasil Ltda.

Calculation factor $f_{2D}$	1.18
Calculation factor $f_{HC}$	1.04
Calculation factor $f_0$	16.4
Mass bearing	3.64 kg