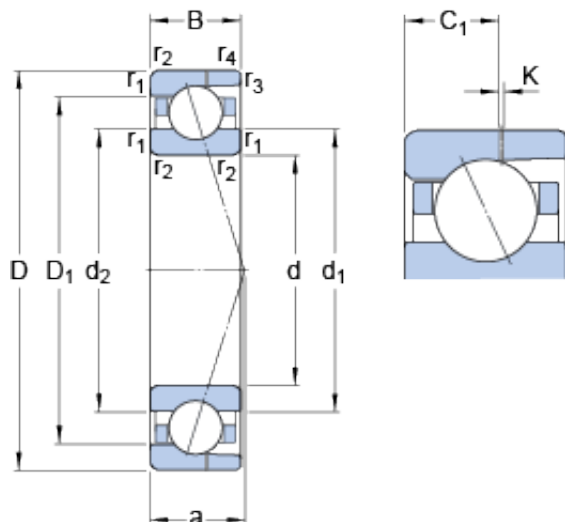




## NTN Bearing Driveshaft do Brasil



9 mm x 24 mm x 7 mm SKF 709 CD/P4AH  
angular contact ball bearings

Bearing No. 709 CD/P4AH

709 CD/P4AH Bearing 2D drawings and 3D CAD models

Size	24x9x7 mm
Bore Diameter	24 mm
Outer Diameter	9 mm
Width	7 mm
d	9 mm
D	24 mm
B	7 mm
d <sub>1</sub>	14.1 mm
d <sub>2</sub>	14.1 mm
D <sub>1</sub>	18.9 mm
K	0.5 mm
C <sub>1</sub>	4.25 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.2 mm
a	5.7 mm
d <sub>a</sub> - min.	11 mm
d <sub>b</sub> - min.	11 mm
D <sub>a</sub> - max.	22 mm
D <sub>b</sub> - max.	22.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.2 mm
d <sub>n</sub>	15.1 mm
Basic dynamic load rating - C	3.6 kN
Basic static load rating - C <sub>0</sub>	1.6 kN



## NTN Bearing Driveshaft do Brasil

Fatigue load limit - $P_u$	0.068 kN
Limiting speed for grease lubrication	80000 r/min
Limiting speed for oil lubrication	120000 mm/min
Ball - $D_w$	3.969 mm
Ball - $z$	10
$G_{ref}$	0.18 cm <sup>3</sup>
Calculation factor - $f_0$	8.8
Preload class A - $G_A$	10 N
Preload class B - $G_B$	20 N
Preload class C - $G_C$	40 N
Preload class D - $G_D$	80 N
Calculation factor - $f$	1.02
Calculation factor - $f$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.09
Calculation factor - $f_{HC}$	1
Preload class A	11 N/micron
Preload class B	15 N/micron
Preload class C	20 N/micron
Preload class D	29 N/micron
$d_1$	14.1 mm
$d_2$	14.1 mm
$D_1$	18.9 mm
$C_1$	4.25 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
$d_a$ min.	11 mm



## NTN Bearing Driveshaft do Brasil

$d_b$ min.	11 mm
$D_a$ max.	22 mm
$D_b$ max.	22.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.2 mm
$d_n$	15.1 mm
Basic dynamic load rating C	3.58 kN
Basic static load rating $C_0$	1.6 kN
Fatigue load limit $P_u$	0.068 kN
Attainable speed for grease lubrication	80000 r/min
Attainable speed for oil-air lubrication	120000 r/min
Ball diameter $D_w$	3.969 mm
Number of balls z	10
Reference grease quantity $G_{ref}$	0.18 cm <sup>3</sup>
Preload class A $G_A$	10 N
Static axial stiffness, preload class A	11 N/ $\mu$ m
Preload class B $G_B$	20 N
Static axial stiffness, preload class B	15 N/ $\mu$ m
Preload class C $G_C$	40 N
Static axial stiffness, preload class C	20 N/ $\mu$ m
Preload class D $G_D$	80 N
Static axial stiffness, preload class D	29 N/ $\mu$ m
Calculation factor f	1.02
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05



## NTN Bearing Driveshaft do Brasil

Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	8.8
Mass bearing	0.015 kg