

Angular Contact Ball Bearing

Miniature angular contact ball bearing-727C



Bearing designations	727C
Boundary dimensions (mm)	
a	7
d	22
D	7
B	-
r	-
R	-
Load rating (KN)	
Cr	3360
Co	1400
Limited speed (r/min)	
Grease	67000
Oil	71000
Weight	
kg (≈)	0.013

Miniature angular contact ball Bearings

Miniature bearings can produce Miniature bearings from 705 to 7008 open type and Miniature angular contact ball bearings also known as small bearings or micro compact ball bearings are designed to operate in applications that require precision, low friction, and high rotational speed. Miniature angular contact or Spindle bearings fall between 3mm and 25mm inner diameter. Spindle bearings are single row angular contact bearings with a nominal contact angle of 15 to 25 degrees. They can be subjected to both radial and (in one direction) axial loads. The direction of the axial load is shown by a V (marking on the outer ring). Miniature spindle ball bearings are suitable for applications requiring precision, while carrying high load combined with high speed.

Miniature bearings are used in many applications, such as Linear transmission and guiding wheel, shaft, high speed electric shaft (wood carving, stone carving, Servo motor, drone, automatic production line, 5G base station small fan, motor Control probe Precision Measuring Instruments 3D Printer ,Aerospace etc.

MONTON miniature angular contact ball Bearings list:

7000Series(C, AC and A contact angle):

Open ? 7 0 5 ? 7 0 6 ? 7 0 7 ? 7 0 8 ? 7 0 9 ? 7 0 0 0 ? 7 0 0 1 ? 7 0 0 2 ? 7 0 0 3 ?
7 0 0 4 ? 7 0 0 5 ? 7 0 0 6 ? 7 0 0 7 ? 7 0 0 8 ?

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Reale?706-ZZ?708-2RS?7000-2RS?7001-2RS?7002-2
7003-2RS?7004-2RS?7005-2RS?7006-2RS?7007-2RS
7008-2RS.

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7200Series(C ,AC and A contact angle):Open?

7 2 3 ? 7 2 4 ? 7 2 5 ? 7 2 6 ? 7 2 7 ? 7 2 8 ? 7 2 9 ? 7 2 0 0 ? 7 2 0 1 ? 7 2 0 2 ?
~~7 2 0 3~~ ? 7 2 0 4 ? 7 2 0 5 ? 7 2 0 6 ? 7 2 0 7 ? 7 2 0 8 ? 7 2 0 9 ? 7 2 1 0 ? 7 2 1 1 ?
 Sealed? 7 2 0 2 - 2 R S ? 7 2 0 5 - 2 R S ? 7 2 0 6 - 2 R S.

71800Series(C ,AC and A contact angle):

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Open? 71800? 71801? 71802? 71803? 71804? 71805? 7181
71816?
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Sealed? 71800-2RS ?71801-2RS ?71802-2RS ?71803-2RS
 71804-2RS ?71805-2RS
 71900Series(C ,AC and A contact angle):
 Open? 719/4 ?719/5 ?719/6 ?719/7 ?719/8 ?719/9 ?71900 ?
 71901 ?71902 ?71903 ?71904 ?71905 ?
 Sealed? 71900-2RS ?71901-2RS ?71902-2RS
 Our normal stock items:
 706 ?708 ?709 ?7000 ?7001 ?7002 ?719/6 ?719/8 ?71900 ?

MONTON Miniature Angular Contact ball bearings have following

1. Precision level: P4 (ABEC7)
2. Rings: Rings made Gcr15 bearing steel, 440C Stainless or 52100 Chromium steel;
3. Balls: Steel or ceramic balls;
4. Cage: Solid retainer made from fiber-reinforced phenolic resin, peek;
5. Contact angle: 15° (C) or 25° (E) contact angles
6. Paired with three predefined preload classes (L, M, or S) or to a customer request;
7. Oil or grease lubrication;
8. Open and seals both available;
9. Cleanroom assembly, lubrication, and packaging.

Miniature angular contact bearings are critical components in high-speed and high-precision applications. Their design and working principles enable them to handle both axial and radial loads. they have excellent performance characteristics in harsh environments. The choice of material and design of the bearing determine the load capacity and speed rating of the bearing. With their small size and high load capacity, miniature angular contact bearings play a applications.



Contact MONTON for more information.