

Angular Contact Ball Bearing

Miniature angular contact ball bearing-



Bearing designations	7003AC
Boundary dimensions (mm)	
a	17
d	35
D	10
B	0.3
r	0.15
R	11
Load rating (KN)	
Cr	6.4
Co	4.7
Limited speed (r/min)	
Grease	40000
Oil	60000
Weight	
kg (≈)	0.04

Miniature angular contact ball Bearings

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

Miniature bearings are used in many applications, such as Linear transmission equipment, machine tool workpiece shaft and guide wheel shaft, high speed electric shaft (wood carving, stone carving, servo motor winding, 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 ?
Sealed? 7 0 6 - Z Z ? 7 0 8 - 2 R S ? 7 0 0 0 - 2 R S ? 7 0 0 1 - 2 R S ? 7 0 0 2 - 2
7 0 0 3 - 2 R S ? 7 0 0 4 - 2 R S ? 7 0 0 5 - 2 R S ? 7 0 0 6 - 2 R S ? 7 0 0 7 - 2 R S
7 0 0 8 - 2 R S .

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):

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

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.