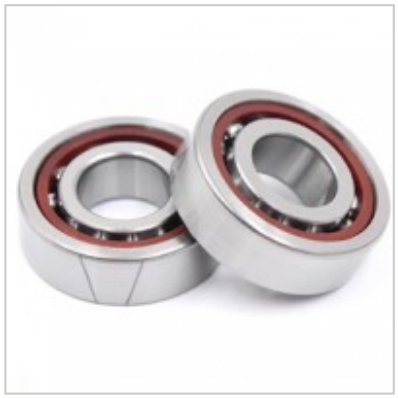
Angular Contact Ball Bearing

Miniature angular contact ball bearing-7001AC



Bearing designations	**7001AC**
Boundary dimensions (mm)	
a	12
d	28
D	8
B	0.3
r	0.15
R	9
Load rating (KN)	
Cr	4.8
Co	2.8
Limited speed (r/min)	
Grease	56000
Oil	85000
Weight	
kg (≈)	0.02

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 bearings,MONTON Miniature angular contact ball bearings are designed to operate in applications that require compactness, low friction, and high rotational precision. Miniature angular Contact or Spindle bearings fall between 3mm inner diameter and 25mm inner diameter.

Spindle bearings are single row angular contact bearings with a nominal contact angle of 15° (C) or 25° (E). 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 equipment,Machine tool workpiece shaft and grinding wheel shaft,High speed electric shaft (wood carving, stone carving, etc.),Planetary reducer,Drill head shaft, Servo motor, drone, automatic production line,5G base station small fan, motor production line winding, activity monitoring 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 ? R S ?

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 ?7 2 1 2 ?

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 2 ? 7 1 8 1 6 ?

Sealed? 7 1 8 0 0 - 2 R S ?7 1 8 0 1 - 2 R S ? 7 1 8 0 2 - 2 R S ?7 1 8 0 3 - 2 R S ?7 1 8 0 4 - 2 R S ?7 1 8 0 5 - 2 R S

71900Series(C ,AC and A contact angle):

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

Sealed? 7 1 9 0 0 - 2 R S ?7 1 9 0 1 - 2 R S ?7 1 9 0 2 - 2 R S

Our normal stock items:

7 0 6 ?7 0 8 ?7 0 9 ?7 0 0 0 ?7 0 0 1 ?7 0 0 2 ?7 1 9 / 6 ?7 1 9 / 8 ?71 9 0 0 ?7 2 9

MONTON Miniature Angular Contact ball bearings have following characteristics:

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 seales 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. Depending upon the bearing material specified, 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 crucial role in many industrial and medical applications.



Contact MONTON for more inforamtion.