Single Row Angular Contact Ball Bearings
7300 Series angular contact ball bearings-7303DT,7303DF,7303DB,7303B

Bearing Numbers	
Single row	**7303B**
DB	**7303DB**
DF	**7303DF**
DT	**7303DT**
Dimensiones principales (mm)	
D	17
D	47
B	14
r (min)	1
r1(min)	0.6
Basic load ratings(N)	
Cr	14800
Cor	8000
Clasificaciones de carga básica (kgf)	
Cr	1510
Cor	820
Valor	
fo	13.7
Velocidad límite (rpm)	
Grasa	13000
Petróleo	17000
Distance of action point(mm)	
a	20.4
Abutment and fillet dimensions	
da (min)	23
Da (máx.)	41
ra (máximo)	1
Peso	
(kg)	0.118
Basic load ratings(duplex bearing) (N)	
Cr	24000
Cor	16000
Basic load ratings(duplex bearing) (kgf)	
Cr	2450
Cor	1640
Limiting Speed(duplex bearing) (rpm)	
Grasa	10000
Petróleo	14000
Distance of action point (duplex bearing)(a0)	
back-to-back arrangement	40.9
face-to-face arrangement	12.9
Installation dimensions(duplex bearing)	
db (min)	22
Db(max)	42
rb (máximo)	0.6

GQZ bearings wholesale high quality 7300 Series Single Row Angular Contact Ball Bearings

The dimensional parameters of 7300 series bearings include inner diameter of 10mm, outer diameter of 35mm and thickness of 11mm.

The 7300 series bearings belong to angular contact ball bearings, the specific models and sizes may be different, but the basic size parameters remain the same. For example, NSK 7300 bearings, 7300AC/DF angular contact ball bearings, 7300AC/DT angular contact ball bearings, NSK 7300BDB bearings, NACHI 7300 bearings, and NSK 7300BDT bearings, etc. Despite the differences in models and characteristics, their inner diameters, outer diameters, and thicknesses remain the same, at 10mm, 35mm, and 11mm respectively. These bearings are typically used in applications requiring radial and axial loads with high rotational accuracy and flexibility. In addition, some specific models of the 7300 series bearings have special lubrication properties and seal designs to meet different operating conditions and performance requirements.

7300 Angular Contact Ball Bearing Characteristics

The characteristics of 7300 angular contact ball bearings mainly include high load carrying capacity, high rotational speed, good axial and radial load carrying capacity, as well as being suitable for occasions where high precision is required.

1、High load carrying capacity: 7300 angular contact ball bearings are able to withstand both radial and axial loads, which makes it widely used in the field of industrial machinery. The bearings have a large load carrying capacity and can withstand a large number of radial and axial forces, thus dispersing the load, reducing the stress at a single contact point and prolonging the service life of the bearings.

2、High speed: Due to the design of 7300 angular contact ball bearings, the contact angle between the inner ring and outer ring is designed to be 15° or 25°, which reduces the frictional resistance and lowers the temperature rise, thus increasing the speed of the bearings. This makes it perform well in conditions that require high speed operation, such as machine tool spindles, high-speed motors and other high-precision, high speed mechanical equipment in a wide range of applications.

3、Good axial and radial load carrying capacity: 7300 angular contact ball bearings are designed to allow it to carry axial and radial loads. Although single row angular contact ball bearings can only withstand axial load in one direction, but in the radial load will cause additional axial force, so generally used in pairs to ensure stability and load carrying capacity.

4、Suitable for occasions requiring high precision: 7300 angular contact ball bearings have high precision and repeat positioning accuracy, and are suitable for mechanical equipment requiring high precision. Its manufacturing precision is very high, can use high-strength steel or ceramic material as rolling body, inner and outer ring using high-strength steel, reduce friction and wear, the internal filling of the right amount of grease, to further reduce the friction loss, so as to meet the requirements of high-precision machinery and equipment operation.

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