

Main Equipments

- GRM-80 cage welding line is the world most advanced technological facility for the production of cage,made by BIHLER in german.
- Wire cutting center.
- Automatic assembly inspection lines.

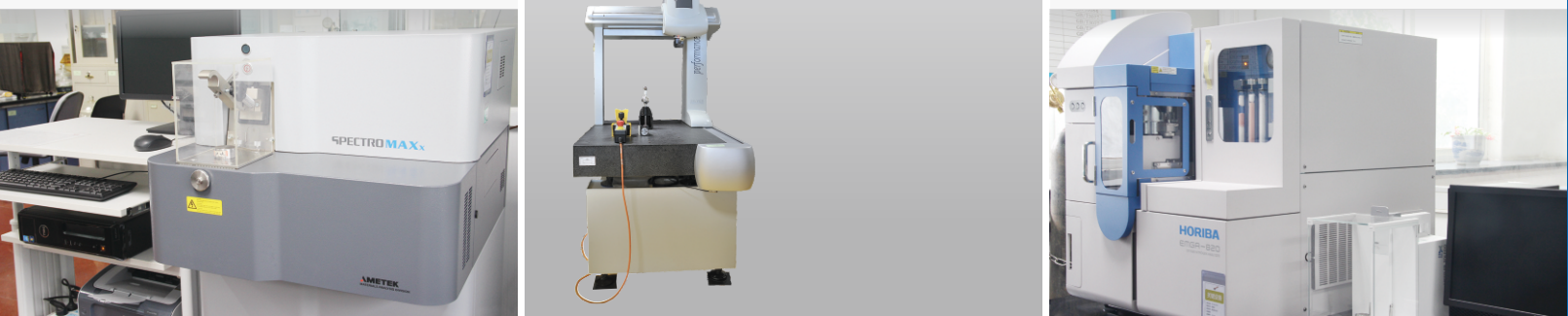


- Automatic grinding and inspection lines for needle bearing rings.
- The transfer press machine imported from England is the most advanced world technological facility for the production of drawn cups and thrust cages.
- Automatic stamping equipment imported from Japan, mainly to produce the cup of the drawn cup needle bearings.



Principal Censor Equipments

- HORIBA EMGA-820 Oxygen content analyzer
- Three-coordinates measuring machine made by HEXAGON Metrology
- Spectrometer



- High precision metallographical optical microscope made by LEICA in Germany
- T8000 contour instrument made by HOMMELWERKE in Germany
- X-ray stress detector



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SUZHOU BEARING FACTORY CO., LTD.



Manufacturing the top-quality bearings
carry forward the Zhonghua brand
>>>>



Company Profile

Suzhou Bearing Factory Co., Ltd. (SBFCN) is a national high-tech enterprise, specializing in the design and manufacture of needle roller bearings, cylindrical roller bearings and needles. The registered trademarks are "Zhonghua" and "SZZH".

The company Suzhou Bearing Factory was founded in 1958. Its main products include needle roller bearing, cylindrical roller bearing, thrust bearing, roller bearing, linear roller guide bearing, rolling element and various components. At present, it has an annual production capacity of 300 million sets of bearings and 5 billion needles.

The company's products are widely used in gearbox, engine, torque management system, new energy vehicle electric drive system, steering system, braking system, transmission shaft, air conditioning compressor and other automotive industries, but also for construction machinery, rail transit, hydraulic transmission, reduction box, power tools, household appliances and other industries. Our main customers are VW, SAIC, BOSCH, BORGWARNER, ZF, MAGNA, GKN, THYSENKRUPP, PARKER, EATON, DANFOSS etc.

Due to increasing business and enhance customer relationship in Europe, Suzhou Bearing Factory Co., Ltd set up new branch Suzhou Bearing GmbH in Stuttgart Germany from 2018.

The company has established a strict quality management system, passed the IATF16949 quality management system certification and ISO45001, ISO17025 system certification, with professional product design and development system and project synchronous research and development capabilities. The company is taking the vision of to be a most competitive supplier for needle roller bearings, cylindrical roller bearings and needle rollers, dedicating to provide most professional products and services for all customers.

Our Products

Drawn Cup Needle Roller Bearing

- » SBFCN - The outer ring of drawn cup needle roller bearing is formed by a precision stamping with thin steel plate. It has an extremely small radial dimension, but a high load carrying capacity. It applies to some cases where the mounting space is limited and the housing bore is not suitable to be a raceway. It applies to some cases where the hardened shaft after grinding used as a raceway. After it assembled to the housing bore, there is no need for additional axial positioning.
- » This type of needle roller bearing generally does not have an inner ring. And if the inner ring needed, it can be selected from this catalog. If not, it can be put forward to our engineering department.



Needle Roller Bearing

- » SBFCN - Needle roller bearing can bear a high radial load. The inner ring of this type of bearing is optional. Generally, it is composed of a machined outer ring, an assembly set of needle rollers and cage, and a separable inner ring.



Thrust Bearing, Thrust Washer

- » SBFCN - Thrust bearing is composed of a thrust cage assembly with needle rollers or cylindrical rollers and thrust washers. So it can be classified into two types: thrust needle roller bearing and thrust cylindrical roller bearing. The needle rollers or the cylindrical rollers are retained and guided by the cage. It can be assembled to be many different combinations when used with different types or series of washers. If the contacting surface of the mating part is suitable as a raceway, then the washer can be cancelled .



Cylindrical Roller Bearing

- » SBFCN - The rollers of cylindrical roller bearing are guided by the rib of inner ring or outer ring. And the rollers have a line contact to the raceway. Therefore, it has a higher radial load capacity and is suitable for a high-speed rotation.
- » There are many types of cylindrical roller bearings can be provided. Based on the internal structure, there are N type, NF type, NJ type, NU type, NUP type, NCL type, RN type (cylindrical roller bearing without outer ring) and RNU type (cylindrical roller bearing without inner ring).



Radial Needle Roller and Cage Assembly

- » SBFCN - Radial needle roller and cage assembly is an independent rolling bearing unit. The distance between two guiding surfaces of its cage is wide, which can not only accurately guide the needle rollers, but also maintain the correct positions of needle rollers. This type of bearing applies to some case where the shaft surface and housing bore surface can be a raceway. But a specified dimensional accuracy and geometrical accuracy should be achieved after a machining process, so a high rotation accuracy in the minimum space can be ensured.



Yoke Type Track Needle Roller Bearing

- » SBFCN - The yoke type track needle roller bearing has an outer ring with thick wall. The track roller can roll directly on the raceway and can also bear a very high radial load. The outer surface of the track roller can be a cylindrical surface or an arc surface, and the arc surface can avoid an edge stress .



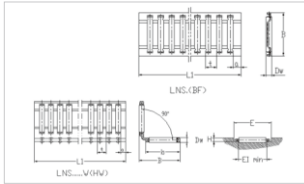
Linear Motion Needle Roller Bearing-Recirculating Roller guidance system

- » SBFCN - The recirculating roller guidance system is composed of a hardened high-precision body, some high-precision rollers, guiding blocks and end shields, etc. This type of bearing has a reasonable design, a high precision, a large load capacity, a small friction, a good rigidity, a long service life and is convenient for a maintenance and replacement.
- » This type of bearing system can make reciprocating linear motion on the guiding track and other surfaces. It is equipped with some horizontal and vertical mounting holes. The post code K represents that the bearing is equipped with horizontal mounting bores, and the post code K1 represents that the bearing is full complement (without isolation block). Please pay attention when ordering.



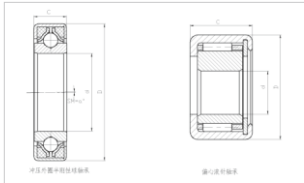
Linear Motion Needle Roller Bearing-Needle Roller and Flat Cage Assembly

- » BFCN - Needle roller and flat cage assembly can be used at the fitting position of machine tool surface and groove as a linear motion rolling bearing. L1 list in the table is a standard length, and also the assembly length can be customized according to customer requirement which can be 200mm max.
- » Needle roller and flat cage assembly can also be used in the radial bearing with the shaft journal diameter bigger than 200mm. The required length can be made according to the shaft diameter, and it can be used after shaping under uniform external forces.



Non-standard Bearing (Eccentric bearing, Semi-rigid bearing)

- » SBFCN - Non-standard bearing is different from conventional standard bearings in design. A directional development can be carried out according to customer's special requirement and application. Its internal structure and type are different to those conventional bearings.
- » Eccentric bearing applied to ABS system is composed of an eccentric inner ring and an drawn cup needle roller bearing assembly. The eccentric inner ring can provide an axial positioning and also bears an impact load. And the outer surface of drawn cup can provide a working surface to the pump piston load.
- » Semi-rigid bearing applied to the steering system column, and an elastic rubber material is assembled inside the bearing. So there will be a suitable preload and can make a stable steering and a comfortable driving performance. Some type of semi-rigid bearing also needs to meet a conductivity requirement.



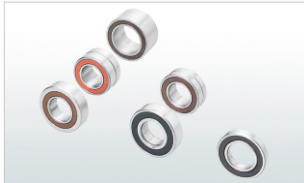
Drawn Cup One Way Clutch Needle Roller Bearing

- » SBFCN- Drawn cup one way clutch needle roller bearing has a minimum radial cross section area. It is often used to transfer a high torque and can be used as a converter, check device and an clutch, the types of bearing can be:
- 1. Drawn Cup Needle Roller Clutch (HF)
- 2. Drawn Cup Needle Roller Clutch and Bearing Assembly (HFL)



Cylindrical Roller Clutch & Ball Bearing Assembly

- » SBFCN - Cylindrical roller clutch & ball bearing assembly is composed of a cylindrical roller clutch and a deep groove ball bearing. It has an accurate positioning, a small starting torque, a low vibration, a low noise and a flexible rotation when overruning. When rotating to other direction, the locking is reliable and the torque transferred is large. This type of clutch bearing assembly is specially developed for main engines of some automatic washing machines. It also applies to converters and check devices that transfer a high torque.



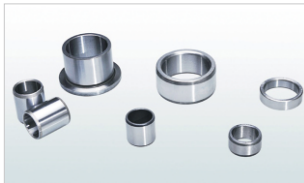
Crossed Roller Bearing

- » SBFCN - Crossed roller bearing is a compact bearing with rollers orthogonally arranged between the inner ring and the outer ring. The rolling element has a line contact to the raceway, so the elastic displacement caused by load is very slight. And it can support a radial load and an axial load at the same time. Compared to the regular bearings, the crossed roller bearing has smaller cross-sectional area and a higher load capacity.
- » Both the inner and outer rings are integrated structure (non-split) with a high precision and a high rigidity. In addition, a separator is installed between rollers. It rotates smoothly and applies to parts with high rotation speed.



Inner Ring

- » SBFCN - The inner ring is built through heat treatment and a precision machining. The dimensional tolerance and geometrical accuracy can meet the national standards. There are generally a guiding chamfer at both sides which is helpful for mounting. It applies to some cases where the shaft cannot be hardened or cannot directly be used as a raceway. When the inner ring is used with our needle roller bearing without inner ring, a normal working clearance can be achieved.
- » The tolerance of our LR inner ring is bigger than that of IR inner ring, and our LR inner ring is generally used with our drawn cup needle roller bearing.



Rolling element

- » Needle rollers: SBFCN supplies a wide variety and many types of needle rollers. It is made of bearing steel, with a hardness HRC 60-65 and a surface roughness Ra 0.2 max.
- » Cylindrical rollers: SBFCN supplies a big variety of cylindrical rollers: Dw: 3-61, Lw: 5-60. The cylindrical rollers are made of bearing steel GCr15 with a hardness HRC 60-65. Or it is made of bearing steel GCr15SiMn with a hardness HRC 60-64 and surface roughness Ra0.2 max.
- » Pins: SBFCN also supplies a large number of pins for power tools and other application. Pins are generally made of bearing steel, and its accuracy, surface hardness and roughness meets relevant industrial standards or customer requirements.

