

Installation of high speed precision angular contact ball bearings

High-speed precision angular contact ball bearings are mainly used for high-speed rotating applications with light loads. High-precision bearings, high-speed, low-temperature, low-rise vibration and a certain service life are required. The support members of the high-speed electric spindle are often used in pairs, and are the key components of the high-speed electric spindle of the inner surface grinding machine.

Main Specifications:

1. Bearing accuracy index: exceeds GB/307.1-94 P4 accuracy
2. High-speed performance indicators: dmN value $1.3\sim 1.8 \times 10^6$ /min
3. Service life (average): >1500 ha

The service life of high-speed precision angular contact ball bearings has a lot to do with installation. Pay attention to the following items:

1. The bearing installation should be carried out in a dust-free and clean room. The bearings should be carefully selected. The bearing spacers should be ground. Under the premise of keeping the inner and outer ring spacers high, the parallelism of the spacers should be controlled at $1\mu m$. the following;
2. The bearing should be cleaned before installation. When cleaning, the inner ring slope is upward, the hand is sensitive, there is no sense of stagnation, after drying, put the specified amount of grease, if it is oil mist lubrication, put a small amount of oil mist oil;
3. The bearing should be installed with special tools, and the force is even, it is strictly prohibited to knock;
4. Bearing storage should be clean and ventilated, no corrosive gas, relative humidity not exceeding 65%, and should be regularly rust-proof for long-term storage.