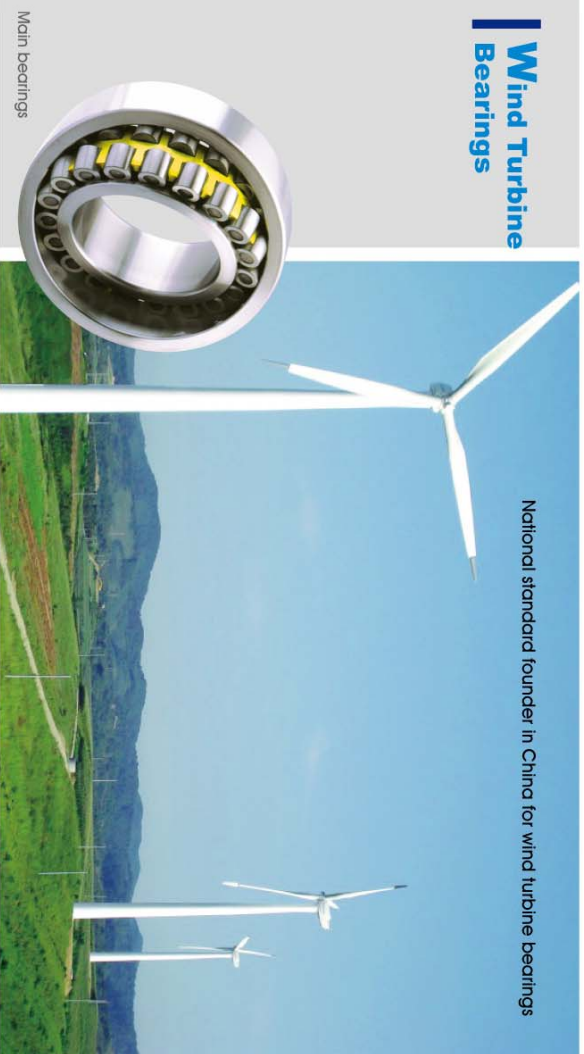


## Wind Turbine Bearings



National standard founder in China for wind turbine bearings

Main bearings

LYC developed its first blade bearing for a 600 KW wind turbine in 1997, which has operated continuously in this field for over 12 years. During the past years, LYC has successfully developed yaw bearings, blade bearings, main bearings and accelerator bearings for wind turbines of 600 KW, 660 KW, 750 KW, 1.3 MW, 1.5 MW and 2.0 MW. In 2008, to compete in the growing clean energy market, LYC introduced its pitch and yaw bearings for 2.5 MW wind generators.



Gearbox system bearings

Because of leadership and contribution to this industry, LYC became the national standard founder in China for wind turbine bearings.

## Slewing Bearings



LYC began manufacturing slewing bearings in the 1970's. During this period LYC has developed a wealth of experience and knowledge. Typical types of bearings produced by LYC are the three row roller bearing, roller/ball combination bearings, four point contact ball bearings, and double row ball bearings, etc. They cover 1,500 types, with a maximum outer diameter of 6300 mm. The rotational accuracy can be defined in to high precision if so requested.

LYC slewing bearings are widely applied

in lift and transport machinery, excavation equipment, construction machinery, port machinery, wind power & solar energy generator, and ladle turret applications etc.



CT machine slewing bearings

OD 6.07m slewing bearings



Three-row roller slewing bearings

## Main Applications

- Port equipment
- Mining equipment
- Medical equipment
- Cements equipment
- Wind energy power
- Metallurgical machinery
- Aerospace
- Heavy lifting
- Stacker & reclaimer equipment

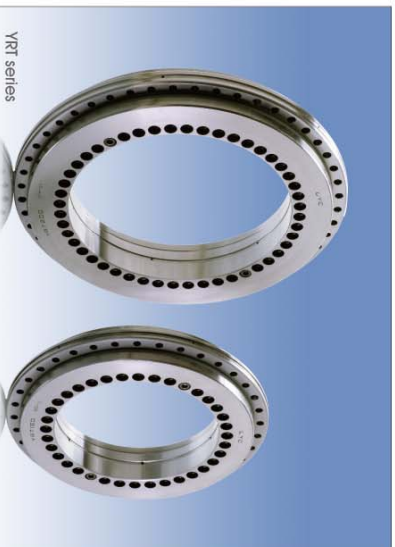


## Precision Bearings

LYC's precision bearing production lines provide the ability to produce different classes of precision bearings namely in the classes of P2, P4, P5, P6. LYC's main bearings type B3-706, B3-707 for boring mills have been awarded the Golden National Quality award, which represents the highest level in the Chinese bearing industry. Other main bearings including outer diameters of 1,600mm these are used in 400 tons CNC lathes, they reach a tolerance class of 0.005mm.



Bearings for electrical motor



YRT series

LYC also produces the YRT bearings with diameters from 80 to 1,030mm, which have high precision, high rigidity, high load and low friction torque. Additionally, YRT bearings can carry radial load, bi-directional axial load and overturning moment. Typical applications are for revolving dial, chuck, milling head, measuring and test equipment.



High precision & special bearings

## Main Applications

- Aerospace
- Grinding machine tool
- Electrical motor
- Water pump
- Household appliance



Thin-section bearings

## Rolling Mill Bearings

Large-size rolling mill bearings



LYC developed the first extra-large rolling mill bearing in China in 1959. LYC has the production capacity for these types of bearings for up to 17,000 pieces per year and can produce various bearings in different precision classes and rotational accuracy (P2, P4 class). LYC has the ability to develop more than 400 new products yearly. LYC provides over one thousand different bearing types on equipment supplied to the metallurgical industry, such as SM bearings, sealed double and four row taper roller bearings for rolling mills and high-speed wire rolling mills, split bearings for turntrons.

Sealed rolling mill bearings



Four-row roller rolling mill bearings



Split bearings

## Main Applications

- Continuous casting machine
- Conveyor belt
- High-speed wire rolling mill
- Reduction drive
- Ladle turret
- Coller



Bearings for high-speed wire rolling mill



SM bearings