

STRY CO.,LTD.

Taiyuan Heavy Industry Co., Ltd (TYHI) was founded in 1950. It's the first heavy machinery manufacturing enterprise designed and built by the nation since the establishment of new China. Currently TYHI is one of the largest 500 industrial companies in China, and one of the largest 50 industrial company in Chinese machinery industry. It's a national giant key backbone enterprise.

TYHI is famous all around the world as the first listed company in Chinese machinery industry in 1998. It's one of the most famous manufacturers of heavy machinery in China, the largest production base of hoisting equipments in China, the largest production base of excavating equipments in China, the largest production base of space launch vehicles in China, the largest production base of large rolling mills and oil film bearings in China, the largest production base of straighteners in China, and the largest production base of multi-functional revolving stages in China. It's the only special designated production base of tube rolling mills and train wheels in China. It's also has the most complete variety of forging and pressing equipments in China.

The products designed and produced by TYHI have been widely used in the sectors such as metallurgy, mine, hydropower, thermal power, wind power, nuclear power, energy, transportation, aviation, space technology, chemical industry, railway, shipbuilding industry, environment protection, transportation equipment industry, etc. Many products filled the domestic blank, awarded with China National Golden Medals, prized more than 360 national and international No.1. TYHI is praised as "National Treasure" and "Trailbreaker of National Economy". And the products have been exported to more than 50 countries and districts in the world.

TYHI has national technology center. It has professional research institutes in hoisting equipment, rolling mill equipment, forging and pressing equipment, excavator equipment, wind power equipment and coke-oven tar etc. It had the comprehensive research ability in machinery, electricity, hydraulic pressure, and transmission.

It's set in its main branches the institutes of wind power, gear drive, oil film bearing, plate flattening machine, wheel axle, pressure vessel accordingly. It also set hot and cold process department adjust with different products to control the semi-finished product, industrial processing, assembling, testing of production.

Inventions, 12 National Prize for Progress in Science and Technology, 10 Science and Technology Achievement Awards, 7 Major National Technology and Equipment Development Achievement Awards, 72 provincial and ministerial level prize for progress in science and technology, 51 achievement awards, 3 National Quality Awards. It also has 37 authorized invention patents and 50 practical new patents.

TYHI has gained customers' approval and trustfulness with first-class product, first-class quality and first-class service in the process of pursuing brilliance and creating world TZ.

In accordance with the concept of "Dedicating to the society with sincerity, making friends with good faith", we will keep growing in a practical, innovate, unite and dedicate manner, and at the meantime, we will keep up with times with innovation and show our best in the world market to expand to a globalized and a tens of billions size company.

Take advantage of equipment and invest in eco-friendly energy

As the only one company in Shanxi Province that expert in wind power equipment R&D, design and production, Taiyuan Heavy Industry Co. Ltd (TYHI) started to produce key machine parts of wind power generation equipment for both domestic and international companies since 2003, including all kinds of ambient temperature and low temperature wind electric principal axis, all kinds of drive shafts, gears, main frames of wind electric gear box, thus it accumulated rich experience of wind power key machine parts production.

TYHI started its R&D in gear box of wind power at 2005. At the beginning of 2006 independent research and development of wind power technology tracking preparation and accumulation.

The complete technology including design, technique, thermal treatment and standard of 5MW wind power gear box was introduced from RENK Company in Germany in 2007. And TYHI entrusted RENK with the technical verification of its self-developed 1.5MW wind power gear box. Till now, it has completed the design and development of 1.5MW, 2MW, 2.5MW, 3MW, 5MW wind power gear box serial products. The 1.5MW wind power gear box passed the design and type approval of China Classification Society in 2009. In 2010, its 1.5MW wind turbine generator got the design certification of China Classification Society, its 2.0MW wind turbine generator got the design certification of China Classification Society and its 3.0MW wind turbine generator got the design certification of China Classification Society in 2013. TYHI

has been tested and evaluated through China low voltage electric power research institute.

Wind Power of Taiyuan Heavy Industry Co. Ltd

Since Taiyuan Heavy Industry Co. Ltd (TYHI) started the R&D of wind power gear box in 2005 to the first 1.5MW variable-speed doubly-fed constant-frequency wind turbine generator independent design, production, installation, and experiment and adjust, connected to the network, generation of electricity in 2009, it achieved important leap in independent development of wind power turbine generator in a short time. Till now, independently developed 2MW 、 3MW and 5MW wind power turbine generator had successfully connected to the network, generated electricity and work steadily. The R&D of 6-10MW wind power turbine generator under development has achieved a big break through. Besides, Taiyuan Heavy Industry Co. Ltd. can personalize and make personalized design according to wind power resource condition of customer. It can also provide customer the complete cycle technical support in installation, adjustment and maintenance.

Now, the 1.5MW, 2MW and 3MW wind turbine generators are in batch production. TYHI had reached production capability of 1000 sets of 1.5MW-3MW wind turbine and was able to produce 1500 wind power main axis, and 1000 wind power speed-increasing gear boxes.

In 2012, formally established too heavy (Chayouzhong banner) New Energy Industrial Co., Ltd belongs to Taiyuan heavy industry Limited by Share Ltd, is a professional engaged in wind turbine wind machine, large equipment manufacturing and production equipment, electric fan manufacturing production enterprises. Company is located in Chayouzhong banner Industrial Park, covers an area of about 300000 square meters, in 2012 September, the first phase of the project has been completed and put into production, annual production scale of 500 wind generators.

Just a few years time, too heavy wind power has made a major breakthrough and leap, harvest one after another glorious victory. And has built up a huge customer base, including China Datang Group and China Huadian Group and other large enterprises, including the local energy investment company strength. By the end of 2013, the wind farm project has been built and the construction of a total of up to 750000 kilowatts, including Huadian Wulanchabu chayouzhongqi macro disk 49.5MW wind farm project; Heilongjiang Duerbote Mongolia Autonomous County

project and anda tiger Gang wind electric field 49.5MW project; a 49.5MW project in inner Mongolia the living treasure a 50MW project and the constant wind farm wind farm in Siziwangqi province; Shandong Huadian Rushan Ya Zi Zhen wind farm project, Wenden Ze Cu wind farm 49.5MW project and Haiyang e'shan wind farm project, Yantai Tianfeng Muping waterway 32MW wind farm project; Shenchi Datang Shanxi Datong dense mane beam Erqi engineering 4 1.5MW wind turbine, five even a project 48MW mountain wind farm and Shanxi Shenchi br three phase 2 2MW wind turbine.

Upholding the management concept of ðedicating sincerity to society, making friends widely in good faithö, TYHI will take hand with you to create brilliance of new energy construction with qualified products and excellent service.

TYHI Wind power advantage

- 1、 TYHI has a professional R & D team, with metallurgy, mine, chemical, power generation, transportation, construction, new energy, aerospace and other professional; wind power in professional settings, forming multi field of mechanical structure, electrical control, hydraulic control, load calculation, micro siting, fan base, tower optimization inter professional collaboration.
- 2、 TYHI with the complete development means, the main use of NX-NASTRAN, ANSYS, MSC.Marc, ADAMS, UG and SolidWorks as well as Bladed, Ansys, WT and other professional software for calculation and Simulation of manufacturing.
- 3、 TYHI has been put into use products are doubly fed 1.5MW, 2.0MW wind turbine generator and full power semi direct drive permanent magnet type 3.0MW, 5.0MW, 6.0MW wind turbine, suitable for high temperature, low temperature, inland, coastal, marine, intertidal zone, high altitude, Low wind speed and different wind resource area, and can match different diameter of the wind wheel and hub height wind resources according to wind farms.
- 4、 In manufacturing, TYHI with wind turbine key components of smelting, casting, forging, heat treatment, welding, machining, complete sets of electric control, assembly debugging, measuring and packing complete manufacturing, assembly, testing and other comprehensive ability.
- 5、 We provide quality products at the same time, also the wind farm construction, the formation of the micro siting, R & D, the late mid unit installation and debugging technology service advantage, provide a full range of supporting services for customers.
- 6、 TYHI has been fully carried out large power wind turbine design, lightweight and high reliability, the master control and remote monitoring, the blade pitch, offshore units alone



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