

LYC[®]

— 中国·洛轴 —



风力发电机轴承 Windturbine bearings

中华人民共和国机械行业标准《滚动轴承 风力发电机轴承》(JB/T10705-2007)主要起草单位

China Machinery Industry Standard <<Rolling Bearing Windturbine Bearing>> (JB/T10705-2007) main constituting unit



中国最具影响力轴承品牌

The most influenced Chinese bearings brand

中国最具市场竞争力品牌

The most competitive Chinese bearings brand



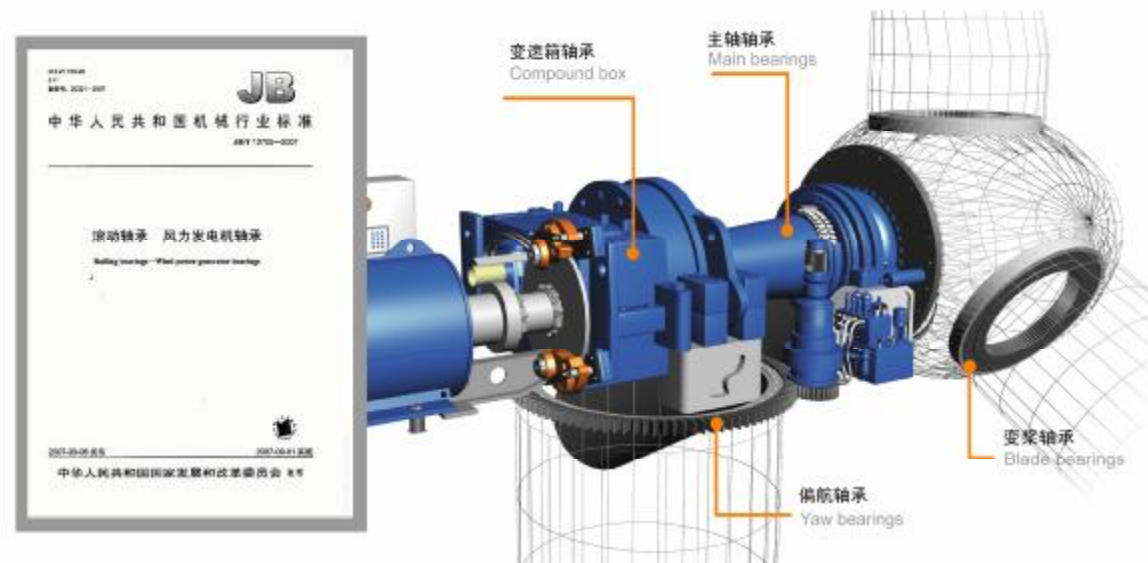
中国最具影响力轴承品牌 中国最具市场竞争力品牌

The most influenced Chinese bearings brand

The most competitive Chinese bearings brand

洛阳 **LYC** 轴承有限公司作为国内专业轴承制造企业，是中国轴承行业规模最大的综合性轴承制造企业之一，可为用户提供九大类型、各种精度等级的滚动轴承 1 万余种，最小内径 10 毫米，最大外径 6.3 米，产品广泛应用到各个领域。洛阳 **LYC** 轴承有限公司拥有国家级技术中心，可协助用户选型、设计、研制各种特殊结构、特殊性能、特殊用途的滚动轴承。洛轴 **LYC** 整体通过了 ISO9001 质量体系认证，其中轿车轴承生产线及生产的“**LYDS**”品牌轴承还通过了 QS9000、VDA6.1 和 ISO/TS16949 质量体系认证，**LYC** 产品有 1 种获得国家精品轴承称号，2 种获得国家金质奖，5 种获得国家银质奖、70 多种获得省、部优质产品奖。同时为国家多项重点工程提供配套轴承。

As professional manufacturing enterprise, Luoyang **LYC** Bearing Co., Ltd is one of the largest comprehensive bearing manufacturers in China. It can produce more than 10000 kinds of rolling bearings with 9 categories and all kinds of precision classes, with least inner diameter 10mm, maximal outer diameter 6.3m. **LYC** products are widely used in various fields meantime. Luoyang **LYC** Bearing Co., Ltd has its own national class technical center. It can select type, design and develop any bearings with special structure, functions and purposes according to the customer's requirements. The company overall passed ISO9001 quality system certificate, among them, the production lines for automobile bearings and “**LYDS**” brand bearings have passed QS9000, VDA6.1 and ISO/TS16949 quality system certificate. **LYC** products won the national golden prize for its 2 types bearings and silver prize for 5 types of bearings. More than 70 kinds of bearings honored the prize of high quality products from the provincial government. One kind gained elaborate bearings title. At the same time **LYC** provides bearings for many national major projects.





领导关怀

Under the great care and support of leadership



50-60 年代的洛轴
LYC in 50-60



70-80 年代的洛轴
LYC in 70-80



90 年代的洛轴
LYC in 90



新世纪的洛轴
LYC in 90

公司自建厂 50 年来，有国家第一代领导人周恩来、刘少奇、朱德等莅临我厂参观考察指导工作，在建厂初期给予了极大关注和支持；前国家主席江泽民、国务院总理朱镕基在北京国防科技展览亲临洛轴展位参观指导，国家领导人邓小平、李鹏、邹家华、李长春等也曾亲自来洛指导工作，对 **LYC** 公司为国家建设事业作出的贡献及成绩给以了充分的肯定。

Plant since the past 50 years, the first generation of national leaders of Zhou Enlai, Liu Shaoqi, Zhu De and others visited our factory for guide, in the early plant has been given attention and support; former President Jiang Zemin, Premier Zhu Rongji in National Defense Science and Technology Beijing exhibition booths to visit in person at Los axis and gave us guidance. The national leader Deng Xiaoping, Li Peng, Zou Jiahua, Li Changchun, Luo, etc., also came personally to guide the work of **LYC** for the cause of nation-building contributions and achievements. Give us full of affirmation.

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中国最具市场竞争力品牌

The most competitive Chinese bearings brand



1959年10月12日，中共中央副主席、国务院总理周恩来视察洛轴。

On Oct 12 1959, vice chairman of the CCCPC, premier Zhou En-lai visited **LYC**.



1960年4月21日，中共中央副主席、中华人民共和国主席刘少奇视察洛轴

On Apr 21 1960, vice chairman of the CCCPC, president Liu Shao-qi inspected **LYC**



1961年3月26日朱德元帅视察洛轴

On Mar 26 1961, Marshal Zhu De inspected **LYC**.



1964年4月17日，中共中央政治局常委，总书记邓小平视察洛轴

On April 17 1964, the standing committee of CCCPC, general-secretary Deng Xiao-ping visited **LYC**



江泽民等国家领导人在 2000 年国防军工协作配套成果展示上检阅洛轴参展的军工轴承。

Jiang Ze-min and other state leaders inspected **LYC** military industry bearings at the national defense coordination achievements exhibit in the year 2000.



朱镕基同志视察洛轴

Comrade Zhu Rongji visited **LYC**



吴邦国、李长春同志视察洛轴

Wu Bangguo, Li Changchun, visited **LYC**



李鹏同志视察洛轴

Comrade Li Peng, visited **LYC**



技术能力

Technical capacity

洛阳 **LYC** 轴承有限公司技术中心是国家发改委、财政部、国家税务总局、海关总署的享受优惠政策的国家级企业（集团）技术中心之一。主要从事轴承产品的研发设计及轴承应用技术；冷、热加工工艺与装备；测试技术与仪器；轴承寿命试验及其性能测试分析；金属与非金属材料应用；清洗、防锈润滑技术与材料；计算机应用技术和技术经济信息等方面的研究。技术中心具有完备的科研设施和研究开发手段，建有热工实验室、理化检测室、轴承寿命试验室、计算机室、科技情报声像室和图书馆等，有当今国际上技术先进，国内轴承行业领先的科研用仪器。

洛阳 **LYC** 轴承有限公司技术实力雄厚，加工设备精良、质量保证体系完善、检测手段先进，在产品集成化、单元化、个性化、系统化以及新结构、新材料、新技术方面取得了多项成果，形成了铁路轴承、汽车轴承、风能轴承、冶金轴承等一批高技术含量、高附加值、高精度的优势产品群。

The technical center of Luoyang **LYC** Bearing Co., Ltd is one of the enterprise technical centers that enjoy preferential policy from National Development Reform Commission, Bureau of Finance Committee, National Tax Affairs Bureau and General Customs Administration approval. It engages in developing and designing new products, renewing and rebuilding old products, bearing application technology, cold & hot-processing craft and accoutrements. Meanwhile it engages in technology test and instruments, bearing life experiment and performance test analysis, metal and nonmetallic material application, clean & anti-rust lubrication technique and material, research of computer application technology and technical economic information etc. **LYC** technical center has complete facilities and methods, it has built heat-treatment laboratory, physics and chemistry examination room, bearing life testing laboratory, computer room, scientific and technical information audio-visual room and library etc. **LYC** technical center owns research instruments with international advanced technology and domestic bearing industry leading level. **LYC** technology is powerful, it has perfect processing equipments, quality assurance system and advanced test methods. It gets plenty of achievements in integration, modular, personalization, systematization and new structure, new material, new technology aspects etc. It has formed a set of high-technology contend, high additional value, high accuracy new advantage product groups including railway bearings, automobile bearings etc windmill bearings, metallurgical bearings.



轴承三坐标测量仪

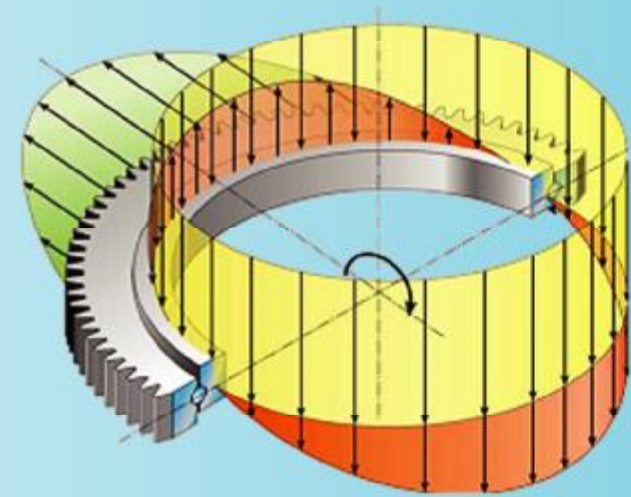
Three Coordinate
Measure Equipment

LYC 独立研发的《通用轴承 CAPP 系统》采用先进的 CAPP 理念，及独创的适合轴承行业特点的框架式和模板式编程技术，使工艺决策过程既方便快捷，又能够迅速生成各类生产用图纸及工艺文件。使产品设计实现智能化，使 **LYC** 产品结构更优化，品质更完美，性能更可靠，最大限度地满足用户使用要求。

LYC independently develop 《Common Bearing CAPP systems》，adopt advanced CAPP theory, create bearing characteristics frame and model programme , it makes working process conveniently and swiftly, form kinds of drawings and documents, to design intelligent products for **LYC** products perfectly, reliable to comply with user's max demand.

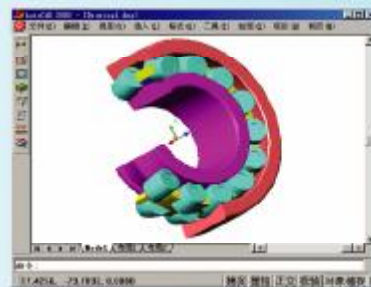
洛阳 **LYC** 轴承有限公司在产品设计领域，成功地将计算机技术应用于轴承新产品设计及分析 CAD/CAE、生产工艺设计 CAPP、轴承性能试验 CAT 等方面，独立开发了具有自主知识产权的《滚动轴承三维计算机辅助设计系统 RBSver5.0》。

LYC successfully apply computer in designing bearing new products design, analysis CAD/CAE, working process CAPP, bearing function test CAT etc, independently develop own intellectual property right 《Rolling Bearing 3 Coordinate Computer Assistant design System RBSver5.0》



根据轴承受力及运行状态建立转盘轴承承载曲线，进行产品寿命预测计算及选型

Slewing bearing load curve in stress and rotation, to select type and life calculation





品质保证

Quality Assurance

LYC 品牌轴承的生产过程建立有一套完整的、持续有效的质量管理体系，并经国内外权威机构评审获得证书。以有效运行的质量管理体系，促进产品质量不断提高。公司 1987 年被评为国家一级计量单位，多次被评为国家一级计量先进单位，1999 年获国家质量技术监督局授予的“完善计量检测体系确认”单位称号。中心拥有二十多项最高计量标准装置，拥有满足轴承生产加工要求的各种精密检测设备和近百种计量标准器。



Our company was regarded as the national first class measuring enterprise in 1987 and won this title many times soon after. Meanwhile, our company won the title of “The unit of perfect measuring system” in 1999. Our center has more than 20 highest-level measurement standard devices, and also has different kinds of precision testing instruments and about 100 kinds of measurement standard instruments which can meet the need of bearing processing and producing.



国内目前最大的风机（变桨）轴承实验机

此试验机为洛阳 **LYC** 轴承有限公司独立研发，拥有自主知识产权，可完全模拟变桨轴承在风机上的安装及运行状态，可对变桨轴承的启动力矩、密封性能、平衡性及耐久性等性能进行测试，满足了用户对风电轴承高可靠性的个性化需求。

The domestic largest wind generator (pitch) bearing testing machine at present

The testing machine is independently researched and developed by Luoyang **LYC** bearing Corp.Ltd It owns proprietary intellectual property rights, and can completely imitate the mounting and operation state of pitch bearing on the wind generator, and test the performance such as start moment, sealability, equilibrium and durability etc. of the pitch bearings. This machine satisfied the customers' individual requirement of high reliability toward wind power bearings.

先进的检测仪器

Advanced inspection instrument

洛阳 **LYC** 轴承有限公司采用国际先进的检测、计量、材料、理化、轴承检测、监控设备仪器以及在线检测分析设施，从每一道工序入手，确保质量万无一失，拥有寿命实验室，用以检测轴承的各种性能，同时拥有国内先进的三坐标仪、电子扫描显微镜、测长仪、圆度仪、轮廓仪等一大批先进检测设备。齐备的检测设备在质保体系中发挥着不可替代的重要作用。

LYC has full sets of perfect quality assurance system and advanced inspection & analysis facilities. **LYC** 's quality controls are traced from the chemical composition and mechanical properties to production processes of turning, heat treatment, grinding and assembly. The flow is all under supervision in order to ensure final products have excellent quality. **LYC** ranks the best position in sampling inspection annually held by China Bearing Industry Association; **LYC** quality assurance dept is regarded as the provincial-class quality inspection center, which includes physical and chemical lab, length lab, examination lab, thermoelectric rooms etc.



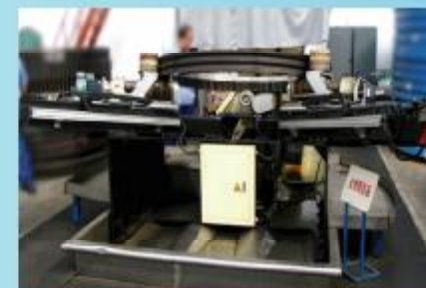
6.5 米测长仪
6.5 m dimension inspection



薄壁轴承气动测量仪
Thin-section bearing pneumatic measuring instrument



荧光磁粉探伤机
fluorescent magnetic particle
inspection machine



轴承套圈磁粉探伤
Bearing ring magnetic powder flaw detector



三维坐标测量仪器
Three Coordinate Measure Equipment



英国引进的电子扫描显微镜
Horizontal Metallographic Microscope
from UK



英国引进的泰勒朗圆度仪
Tyler Profile Instrument from UK



英国引进的泰勒索夫轮廓仪
Talar Contourgraph from UK



转盘轴承装备能力

Skewing Bearings Equipments

洛阳LYC轴承有限公司拥有：6.4米立车，5米数控立车等多台大型立车，同时还拥有5米滚齿机，40多台大型锤齿机，高、中频淬火机，数控钻床，荧光磁粉探伤机及轴承套圈磁粉探伤机等和6米中频淬火设备，具有强大的高精度特大型轴承加工能力，牢牢占据国内特大型轴承市场。优质产品的制造必须有先进的工艺和装备做保证。

LYC owns: 6.4M vertical lathe, 5M CNC stand lathes, 5M hob, 40 sets large shaping gears machines high、middle frequency induction machines, CNC drilling machines, fluore MT and rings MT and 6M middle frequency equipments.



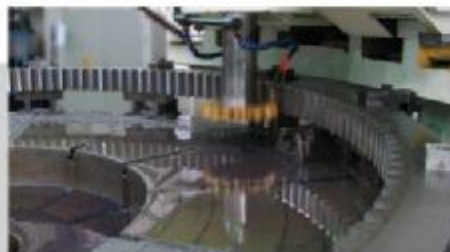
5米数控立车

5M CNC vertical lathe



3.5米数控立车

3.5M CNC vertical lathe



4.5米锤齿机

4.5M shaping gear machine



6.3米立车

6.3M vertical lathe



6.5米淬火机

6.5M quenching machine

洛阳 **LYC** 轴承有限公司拥有多条国内一流的轴承生产线。精密生产线：是精密品、低噪音的生产基地，拥有十三条国内一流水准的才磨超自动线，技术先进、装备精良，设备配置 60 米/秒的高速磨削，提高了磨加工效率；采用 CNC 交流伺服恒功率磨削控制系统，提高了磨床的控制精度。汽车轴承生产线：引进了多条国际先进生产线。铁路轴承生产线：是铁道部批准的专业生产铁路客、货、机车轴承生产线，产品的精加工工序全部采用引进的世界上最先进的多功能数控复合设备，达到世界先进水平。军工轴承生产线：是我国海、陆、空、航天轴承定点生产基地。风电轴承生产线：是我国最早生产风电轴承企业，是目前国内唯一能为风力发电机轴承全部配套的企业。冶金轴承生产线：1959 年研制了我国第一套特大型轧机轴承，可生产各种类型的冶金轧机轴承，精度等级可达到 P4 级，背衬轴承精度可达到 P2 级。特大型轴承生产线：是我国特大型轴承的生产基地，拥有各种生产设备 400 余台，其中进口高精度设备占 20%以上，可以加工直径 $\Phi 400$ - $\Phi 6300$ mm 各类型轴承，生产品种已达 3000 多种。投资 25 亿的新洛轴工程首期规划建设的风电轴承、军工精密轴承、汽车轴承生产线 09 年底将试车投产。



引进的进口大型磨床，可以加工 2.8 米外径，精度可以控制在 0.005mm 以内
The introduction of large-scale import grinder, can be processed outside diameter 2.8 meters, precision can be controlled within 0.005mm

Luoyang **LYC** Bearing Co., Ltd has domestic outstanding precision production lines, is the basement of precise products, low-noise products. With 13 domestic the first-class standard automatic grinding, super-grinding excellent equipments by 60m/s high speed turning in high grinding efficiency, improve grinding precision with CNC servo grinding control system. Luoyang Dongsheng Bearing Co., Ltd is joint-venture by LYC holdings, imported full sets international advanced technology and production equipments(with 4 Japanese NTN tapered roller bearing lines, and 8 Germany tapered roller lines), LYC has the most advanced cylindrical roller precise bearings production lines in China. Extra large-size bearings special production basement, with over 300 sets equipments, 20% high precision equipment are imported, can process out dia $\phi 400$ - $\phi 6300$ mm kinds of bearings owning 3000 sorts. The railway bearing production lines approved by China Railway Ministry approved, powerful special technical production lines, major in making bearings of passenger train, cargo train, locomotive. The precise processes are adopted the most advanced multi digital control combined equipments, that comes up the world advanced standard.



5 米滚齿机

5m gear hobbing machine



特大型轴承生产线

Large bearing production line



风电轴承生产线

Wind power bearing production line



龙门移动式数控钻铣

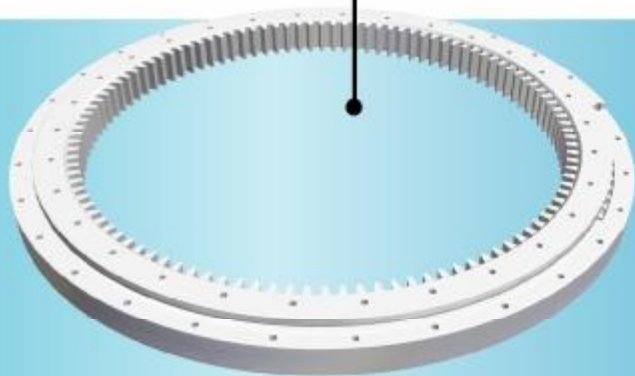
CNC mobile milling machine

安装于风力发电机组机舱底座总成的偏航机构，用于准确适时地调整风机的迎风角度，并将雷电传导至地面，承受负荷为：径向负荷、轴向负荷和倾覆力矩。要求密封性能好、可靠性高、运转灵活及平稳性好、表面防腐、寿命超过 20 年等。该类轴承一般采用特大型四点接触球或交叉圆柱滚子转盘轴承。

LYC extra large bearings four-point contact or cross cylindrical roller slewing bearings seat in yaw structure of the bottom of the windmill generator to adjust the angle of wind timely, letting the thunder to the earth, The major load supported radial load, axial load and tilting moment. The requirements come up to good seal, reliability, rotate nicely and stably, the surface anti-corrosion for over 20 years life.

偏航轴承

Yaw bearings



位于叶轮主轴，工作负荷高，并要求能够补偿主轴的变形。因此，该轴承应具有良好的调心性能、较高的负荷容量，以及较长的使用寿命。一般采用通过优化设计的调心滚子轴承。

LYC spherical roller bearings seat in main shaft of blade with high load, fit for deformation of shaft. The bearing has spherical function, high load capacity and longer working life.

位于叶片的变桨系统总成，用于调整叶片的迎风方向，主要承受径向负荷、轴向负荷和倾覆力矩。要求该轴承具有良好的密封性能、高可靠性、表面防腐，并且运转灵活、寿命超过 20 年等。该类轴承一般采用特大型四点接触球或双排球转盘轴承。

LYC extra large four-point contact balls or double-row balls slewing bearings seat in the systems of blade, mainly support radial, axle load and tumbling moments. The requirements come up to good seal, reliability, rotate nicely and stably, the surface anti-corrosion for over 20 years life.

变桨轴承

Blade bearings

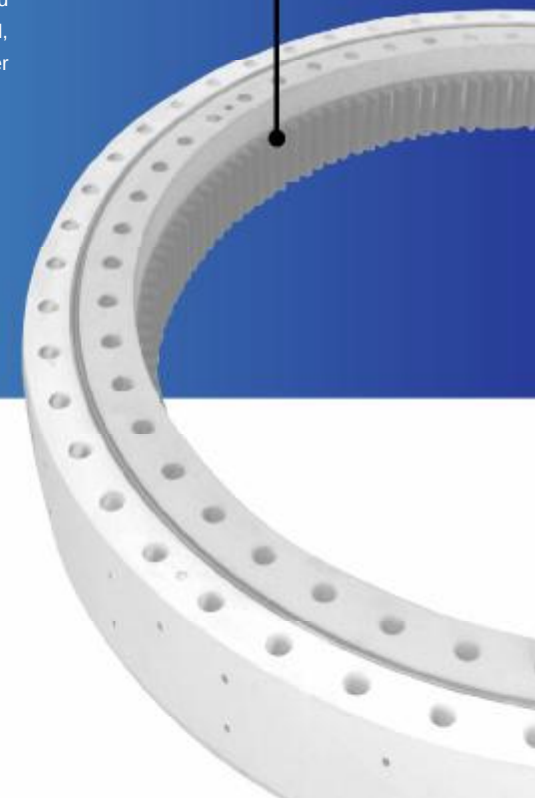


主轴轴承

Main bearings

变速箱轴承

Compound box bearings



部分风机轴承产品目录 Some windturbine bearing lists

序号	产品型号	外型尺寸d×D×B	结构形式	机型
1	FD-1797/985	Φ984×Φ1289.5×114	外齿交叉圆柱滚子转盘轴承	300KW
2	1797/1722	Φ1720xΦ2074x123	外齿交叉圆柱滚子转盘轴承	600KW
3	2787/1758	Φ1680xΦ2038x135	内齿四点接触球转盘轴承	750KW
4	1788/1877	Φ1877×Φ2195.2×111	外齿四点接触球转盘轴承	750KW
5	2787/1833	Φ1764×Φ2178×140	内齿四点接触球转盘轴承	850KW
6	2787/2057	Φ1988×Φ2299×109	内齿四点接触球转盘轴承	1MW
7	LY-S70 LTV	Φ2064×Φ2730×120	内齿L型齿圈	1.25MW
8	LY-S82 LTV	Φ2222×Φ2880×125	外齿L型齿圈	1.5MW
9	1788/2617K	Φ2617×Φ3002.4×137	外齿四点接触球转盘轴承	1.5MW
10	014.60.2500.03K	Φ2220×Φ26782×144	无齿四点接触球转盘轴承	1.25MW
11	9787/2135	Φ2135×Φ2616×185	外齿双排球转盘轴承	1.5MW
12	9787/2135K1	Φ2135×Φ2616×185	外齿双排球转盘轴承	1.5MW
13	1788/2617K1	Φ2617×Φ3002.4×137	外齿四点接触球转盘轴承	1.5MW
14	2787/2553	Φ2469.6×Φ2908×137	内齿四点接触球转盘轴承	1.5MW
15	1788/2617	Φ2617×Φ3002.4×137	外齿四点接触球转盘轴承	1.5MW
16	9787/2135K2	Φ2135×Φ2616×185	外齿双排球转盘轴承	1.5MW
17	9787/2135K1	Φ2135×Φ2616×185	外齿双排球转盘轴承	1.5MW
18	2787/2553	Φ2469.6×Φ2908×137	内齿四点接触球转盘轴承	1.5MW
19	2787/2121	Φ2034×Φ2500×169	内齿四点接触球转盘轴承	2MW
20	9787/2135K1	Φ2135×Φ2616×185	外齿双排球转盘轴承	1.5MW

偏航轴承在风力发电机中的应用

Yaw bearing application in windturbine generators

序号	产品型号	外型尺寸d×D×B	结构形式	机型
21	9787/2570	Φ2570×Φ3139×195	外齿双排球转盘轴承	2MW
22	2787/2760	Φ2640×Φ3180×144	内齿四点接触球转盘轴承	2MW
23	2787/1833	Φ1764×Φ2178×140	内齿四点接触球转盘轴承	850KW
24	1787/2833	Φ2833×Φ3256×145	外齿四点接触球转盘轴承	2MW
25	9787/2570	Φ2570×Φ3139×195	外齿双排球转盘轴承	3MW
26	1787/1948	Φ1948×Φ2390×130	外齿四点接触球转盘轴承	1MW
27	2787/2845	Φ2757.6×Φ3250×135	内齿四点接触球转盘轴承	3MW

序号	产品型号	外型尺寸d×D×B	结构形式	机型
1	787/1184	Φ1184×Φ1524×125	无齿四点接触球转盘轴承	600KW
2	FD-1797/574	Φ573×Φ816×90	外齿交叉圆柱滚子转盘轴承	300KW
3	8787/1716K3	Φ1657.3×Φ2080×182	内齿双排球转盘轴承	1.5MW
4	2787/1140	Φ1092×Φ1480×126	内齿四点接触球转盘轴承	750KW
5	8787/1344	Φ1284×Φ1635×142	内齿双排球转盘轴承	850KW
6	8787/1716	Φ1657.3×Φ2080×168	内齿双排球转盘轴承	1.5MW
7	8787/1716K2	Φ1657.3×Φ2080×168	内齿双排球转盘轴承	1.5MW
8	8787/1716K	Φ1657.3×Φ2080×168	内齿双排球转盘轴承	1.5MW
9	8787/1716K1	Φ1657.3×Φ2080×168	内齿双排球转盘轴承	1.5MW
10	8787/1195	Φ1142×Φ1550×160	内齿双排球转盘轴承	1.25MW
11	8787/2000	Φ1944×Φ2400×169	内齿双排球转盘轴承	2MW
12	8787/1727	Φ1652×Φ2053×150	内齿双排球转盘轴承	2MW

变桨轴承在风力发电机中的应用

pitch Bearing wind turbine generators in the application

工作承诺：对顾客反馈的质量问题，24 小时内必须答复，48 小时内赶赴现场处理。
最大限度地满足顾客需求。

For quality feedback , it must be replied within 24hours , the staff handle on the spots within 48hours . Farthest meet demand of customers.

部分风机轴承产品目录

Some windturbine bearing lists

序号	产品型号	外型尺寸d×D×B	结构形式	机型
1	NCF2888V/P5S0	Φ440×Φ540×60	满装单列圆柱滚子轴承	1.5MW 增速机
2	NCF18/530V/P5S0	Φ530×Φ650×56	满装单列圆柱滚子轴承	1.5MW 增速机
3	NCF18/670V/P5S0	Φ670×Φ820×69	满装单列圆柱滚子轴承	1.5MW 增速机
4	23060CA/S0W33	Φ300×Φ460×118	调心滚子轴承	1.5MW 增速机
5	22340CA/S0W33	Φ200×Φ420×138	调心滚子轴承	1.5MW 增速机
6	NCF18/530V	Φ530×Φ650×56	满装单列圆柱滚子轴承	1.5MW 增速机
7	NCF28/670V	Φ670×Φ820×88	满装单列圆柱滚子轴承	1.5MW 增速机
8	NNCF5044CV/C3	Φ220×Φ340×160	满装双列圆柱滚子轴承	1.5MW 增速机
9	NU1072EM	Φ360×Φ540×82	单列圆柱滚子轴承	1.5MW 增速机
10	NU2326EM/C3	Φ130×Φ280×93	单列圆柱滚子轴承	1.5MW 增速机
11	NU2336M/C3	Φ180×Φ380×126	单列圆柱滚子轴承	1.5MW 增速机
12	NU2338EXM1/C3	Φ190×Φ400×132	单列圆柱滚子轴承	1.5MW 增速机
13	NU326EM/C3	Φ130×Φ280×58	单列圆柱滚子轴承	1.5MW 增速机
14	QJ326N2M	Φ130×Φ280×58	四点接触球轴承	1.5MW 增速机
15	QJ334N2M	Φ170×Φ360×72	四点接触球轴承	1.5MW 增速机
16	Z-535808/DF	Φ400×Φ540×86	成对单列圆锥滚子	1.5MW 增速机
17	NU226EM	Φ130×Φ230×40	单列圆柱滚子轴承	1.5MW 增速机
18	FD-NCF18/710V	Φ710×Φ870×74	满装单列圆柱滚子轴承	2MW 增速机
19	FD-NCF18/560V	Φ560×Φ680×56	满装单列圆柱滚子轴承	2MW 增速机
20	FD-NJG2344VH	Φ220×Φ460×145	满装单列圆柱滚子轴承	2MW 增速机

齿轮箱轴承在风力发电机中的应用

The application of Gear Box Bearing in the wind generator

序号	产品型号	外型尺寸d×D×B	结构形式	机型
21	FD-NU1088EM	Φ440×Φ650×94	单列圆柱滚子轴承	2MW 增速机
22	FD-31088X2-1/DF	Φ440×Φ650×(96×2)	成对单列圆锥滚子	2MW 增速机
23	FD-NU2344EM	Φ220×Φ460×145	单列圆柱滚子轴承	2MW 增速机
24	FD-30344/DF	Φ220×Φ460×(97×2)	成对单列圆锥滚子	2MW 增速机
25	FD-NU224EM	Φ120×Φ215×40	单列圆柱滚子轴承	2MW 增速机
26	NNCF5060V/P53 DR S0	Φ300×Φ460×218	成对用满装双列圆柱滚子轴承	3MW 齿轮箱
27	NCF18/800V/P53 CNL S0	Φ800×Φ980×82	满装单列圆柱滚子轴承	3MW 齿轮箱
28	NJ2334EM/P53 DB S0	Φ170×Φ360×120	成对用单列圆柱滚子轴承	3MW 齿轮箱
29	306/500/P5 S0	Φ500×Φ670×85	单列圆锥滚子	3MW 齿轮箱

序号	产品型号	外型尺寸d×D×B	结构形式	机型
1	5397/1315	Φ1315xΦ1725x262	无齿三排圆柱滚子转盘轴承	750KW
2	240/800CAP6/W33	Φ800×Φ11500×345	调心滚子轴承	1.5MW
3	240/630CA/W33	Φ630xΦ920x290	调心滚子轴承	1.25MW
4	3519/800X2	Φ800×Φ1060×285	双列圆锥滚子轴承	1.5MW
5	3519/710X2	Φ710×Φ950×248	双列圆锥滚子轴承	1.5MW
6	230/800/W26	Φ800×Φ1150×258	调心滚子轴承	1.5MW
7	240/630 CA/W33	Φ630×Φ920×290	调心滚子轴承	1.5MW
8	239/670 CA/W33	Φ670×Φ900×170	调心滚子轴承	1.5MW
9	240/530 CA/W33	Φ530×Φ780×250	调心滚子轴承	1.5MW
10	240/600 CA/W33S0	Φ600×Φ870×272	调心滚子轴承	1.5MW
11	NU19/1250	Φ1250×Φ1630×170	单列圆柱滚子轴承	1.5MW
12	3519/950	Φ950×Φ1250×300	双列圆锥滚子轴承	1.5MW
13	230/710 CA/W33	Φ710×Φ1030×236	调心滚子轴承	2MW
14	241/600 CA/W33	Φ600×Φ980×375	调心滚子轴承	2MW
15	N6/1200/W26	Φ1200×Φ1520×185	单列圆柱滚子轴承	1.5MW
16	LY-3048	Φ1370×Φ1780×276	双列圆锥滚子轴承	1.5MW

主轴轴承在风力发电机中的应用

Main bearings in application of wind turbine generators

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