

LYC[®]

— 中国 · 洛轴 —

转 / 动 / 中 / 国 / 推 / 动 / 世 / 界 /
Rotating China Empowering the world



冶金、轧机轴承

Metallurgical Rolling
Mill Bearings

中国第一套特大型轧机轴承生产企业
The First Extra Large-size Rolling Mill Bearings Enterprise in China





专业源于知识

Specialty from knowledge

专业铸就品质

Specialty achieve quality



为用户创造价值

Creating value for customers

为用户提供解决方案

Provide solution for customers

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.

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



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 Reformation, 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 .



轴承三座标测量仪

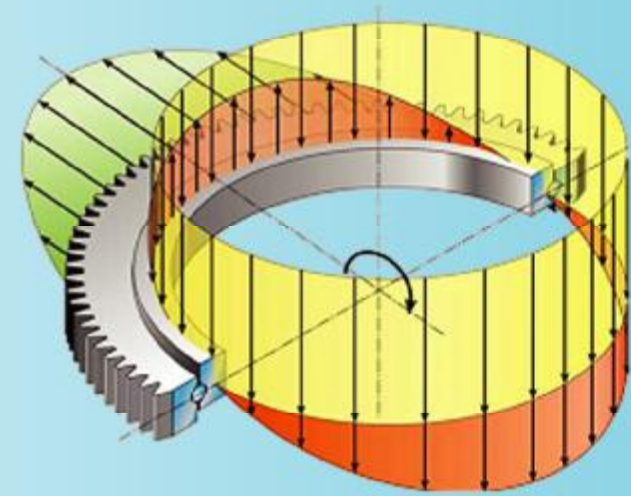
Three Coordinate
Measure Equipment

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.

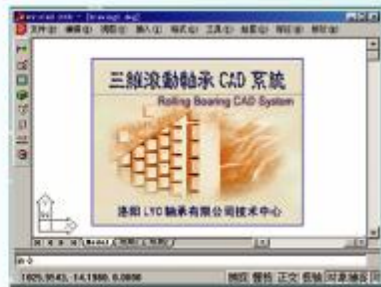
洛阳 LYC 轴承有限公司在产品领域，成功地将计算机技术应用于轴承新产品设计及分析 CAD/CAE、生产工艺设计 CAPP、轴承性能试验 CAT 等方面，独立开发了具有自主知识产权的《滚动轴承三维计算机辅助设计系统 RBDSver5.0》。

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

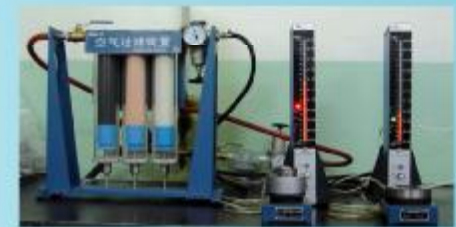
Advanced inspection instrument

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.



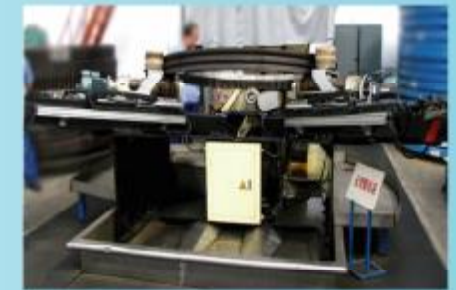
6.5 米测长仪
6.5 m dimension inspection



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



英国引进的泰勒明圆度仪
Tyler Profile Instrument from UK



英国引进的泰勒索夫轮廓仪
Talor 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.



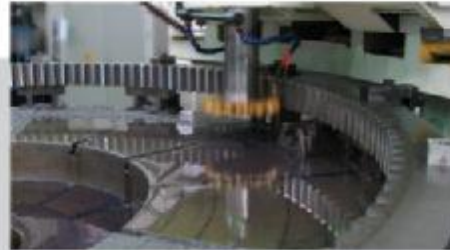
5 米数控立车

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



洛阳 LYC 轴承有限公司研制生产了我国第一套特大型轧机轴承。在冶金轧机轴承的制造方面，LYC 公司已发展成具有 17000 套/年轧机轴承的生产能力，能够生产各种规格、各种精度及特殊结构的轧机轴承，其生产规模及技术水平处于国内领先水平。LYC 公司在产品加工设备相继引进了数十台具有国际先进水平的冷、热加工设备，极大的提高了轧机轴承的制造水平。不仅能够生产普通轧机轴承，还能生产超精密的密封式、剖分式等轧机轴承。冶金轧机轴承也从单品种、简单结构，向成系列、复杂结构、高技术含量的方向发展。目前，LYC 公司每年可开发新产品品种达 300 多种，有高精度、高技术含量、高附加值的森吉米尔轧机轴承，双四列圆柱滚子轴承、密封式双、四列圆锥滚子轴承以及高速线材轧机轴承。在冶金轧机轴承方面累计为各类冶金主设备配套达千余种品种，冶金轧机轴承已成为公司主导产品中的重要部分。LYC 公司冶金轧机轴承产品广泛应用于宝钢、鞍钢、沙钢、首钢、武钢、济钢、莱钢、本钢、马钢、太钢、舞钢、攀钢、包钢、抚钢等国内主要钢铁生产企业。



LYC 生产的中国第一套特大型四列圆锥滚子轧机轴承（1959 年）

The first extra large-size rolling mill four-row bearings made by LYC in China (in 1959)



The first extra large rolling mill bearing was developed by LYC. It has production capacity of 17000pcs per year and can make various specific bearings in different precision grade of metallurgical rolling mill bearings. LYC imported dozens of international cold, hot making equipments to improve rolling mill bearing standard. Not only LYC can produce standard rolling mill bearings but also can make sealed spilt bearings. LYC able to develop over 300 new kinds of products in high precision, technical content and additional value with SM bearings, sealed double, four row tapered roller and high speed wire rolling mill bearings each year. In metallurgical areas, LYC totally provide over thousands sorts of bearings for metallurgical equipments. LYC metallurgical bearings products are widely used in Bao-steels, Anshan-steels,Wuhan-steels,Captial-steels,Panzhuhua-steels,Benxi-steels,Ma-steels,Baoto-steels,Tai-steels,Jiu-steels,Fu-steels domestic key steels enterprises etc.

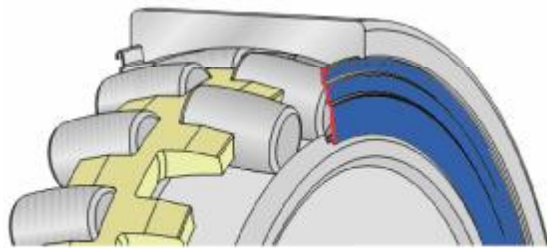
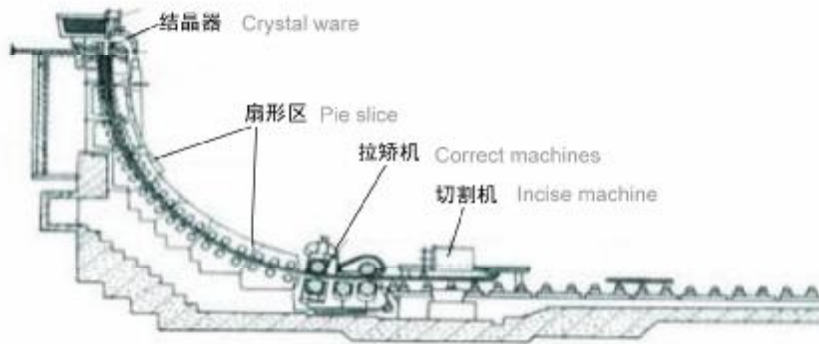


连铸机配套轴承

Link casting machines matching bearings

常用：双列调心滚子轴承
 双列调心滚子剖分轴承
 单、双列圆柱滚子剖分轴承
 滚针轴承、CARB 轴承
 剖分轴承常用于设备不易拆卸、环境温度高、轴向位移、不对中、密封等问题

Common use: Double-row spherical roller bearings
 Double-row spherical roller spilt bearings
 Single, double-row cylindrical roller spilt bearings
 Needle roller bearings、CARB bearing
 to solve the problem to disassembly the equipments, high temperature, axle displacement, unfit, sealing problem



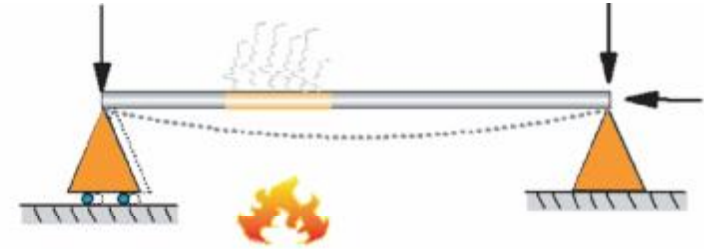
密封式调心滚子轴承

Sealing spherical roller bearings



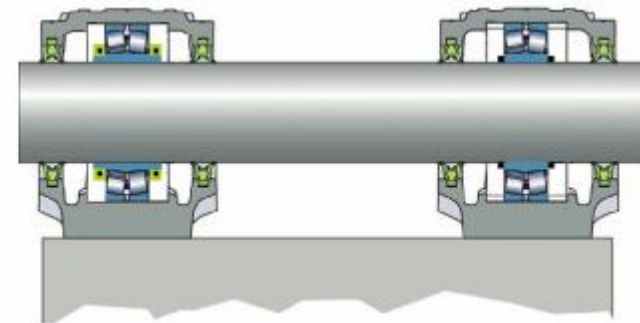
调心滚子轴承

Spherical roller bearings



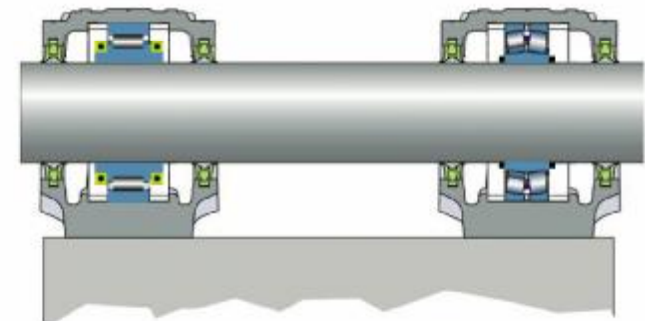
轴受热、自重及受力会产生变形（轴向位移和不对中）

Distortion by heating shaft , deadweight and load



游动端 Swim end
 旋转灵活 拆装快捷
 更好地解决不对中问题

固定端 Fix end
 Rotating agility Act shortcut
 Better to solve incorrect problem



游动端 Swim end

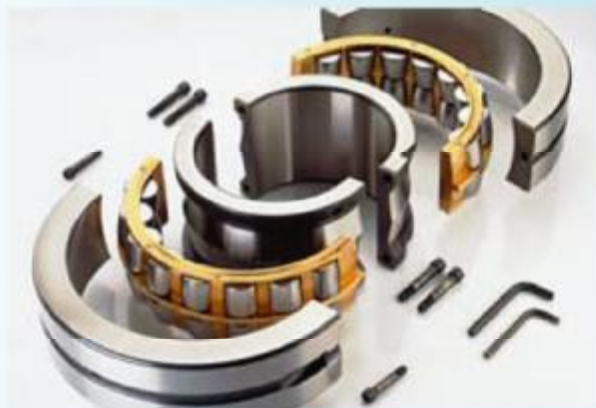
固定端 Fix end

游动灵活 拆装快捷 不降低承载
 更好地解决轴向位移问题

Rotating agility Act shortcut Not to debase load
 Better to solve axle displacement



双列调心剖分滚子轴承
Double-row spherical roller spilt bearings



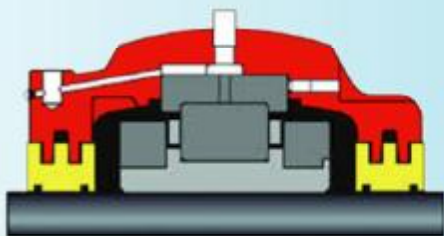
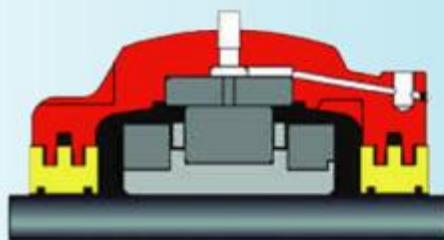
双列调心剖分滚子轴承优点:

- 具有很好的调心功能
- 完全分离式轴承（剖分轴承）
- 安装时不需移动周边设备或机器
- 安装成本低、更换方便、减少停机时间、提高维修效率
- 密封件与轴保持平行、同心
- 间隙最小，多种标准环式密封件

The advantage of double-row spherical roller spilt bearings with the function of corking suit centre well
Complete apart bearing (spilt bearing)
No need to move side equipments or machines while mounting
Low cost to mount, easy to exchange, less time to stop machine, improve service efficiency.
Seals and shaft keep parallel, concentric.



带座圆柱滚子剖分轴承
Housing cylindrical roller spilt bearings



带座圆柱滚子剖分轴承优点:

- 完全分离式轴承（剖分轴承），安装时不需移动周边设备或机器
- 安装成本低、更换方便、减少停机时间、提高维修效率
- 对轴的加工要求低，轴不需要车倒角、台阶
- 很好的解决轴向位移
- 密封件与轴保持平行、同心
- 间隙最小，多种标准环式密封件

Housing cylindrical roller spilt bearing advantage
Full apart bearing (spilt bearing), No need to move side equipments or machines while mounting
Low cost to mount, easy to exchange, less time to stop machine, improve service efficiency.
Low requirements to process shaft, no need to turn shaft chamfer, step to solve axle displacement well
Seals and shaft keep parallel, concentric.

常用：双列调心滚子轴承

Common use: Double-row spherical roller bearings

双列调心剖分滚子轴承

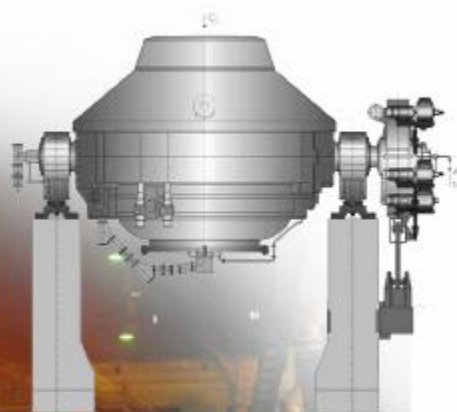
Double-row spherical roller spilt bearings

单、双列圆柱滚子轴承

Single, double-row cylindrical roller bearings

单、双列圆柱滚子剖分轴承

Single, double-row cylindrical roller spilt bearings



剖分轴承：

剖分轴承常用在使用工况特殊、主设备在安装到位后长期不能拆卸、备件更换和维护保养较为困难的场合，如转炉耳轴剖分轴承，结构复杂，加工难度大，属于高技术含量的产品。LYC 公司已成功为太钢、酒钢、鞍钢、三明钢厂、抚钢连钢、武钢、济钢、莱钢、唐钢、天钢、青岛钢铁等企业配套转炉耳轴剖分轴承数十种，并已形成产品系列化。

Spilt bearings:

Spilt bearings for special working condition , main equipments can not be displaced , changed, maintained after assembling well such as converter spilt bearings that is hard to make in complicated structure with high technical products. LYC has provided over ten kinds of converter spilt bearings and serial products for Tai-steel、Jiu- steel、An-steel、Sanmin-steel、Fu-steel & Lian-steel, Wu-steel, Ji-steel, Lai-steel, Tang-steel Tian-steel, Qingdao-steel etc..



剖分式调心滚子轴承

简化驱动端的安装，不需要将整个系统拆开。

明显降低停机时间。

剖分式调心滚子轴承与非剖分式轴承具有同样的外径和内径。

穿销式保持架能使承载能力最大化（与非剖分式轴承接近）

所有的部件都有提升孔，便于安装。

已被证明的可靠的设计与应用

Spilt spherical roller bearings

Simply drive end mounting, no need displace the whole systems

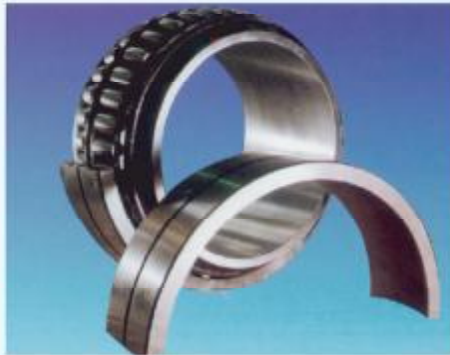
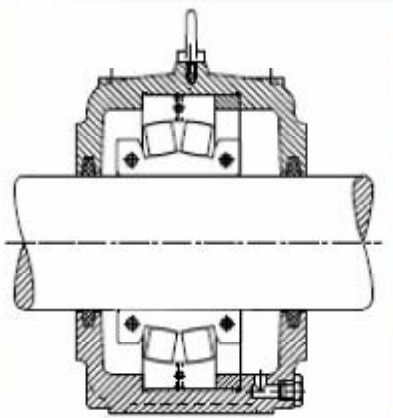
Debase to stop machine time obviously

Spilt spherical roller bearing and non spilt bearing have same out dia and inner dia

Pin cage can make max load (approaching non spilt bearings)

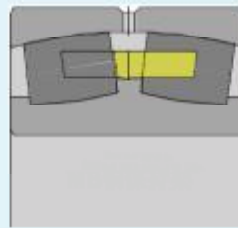
All parts have lifting hole, easy to mount

Have provided reliable design and application



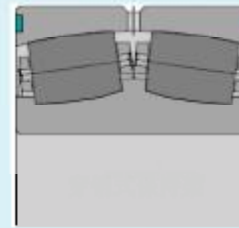
轴承常用结构形式

Common bearing structure



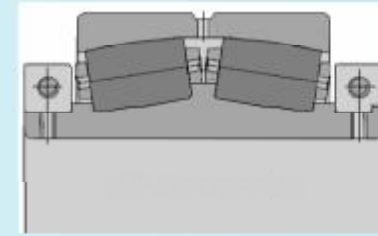
轴承常用结构形式

Common bearing structure



穿销式保持架

Pin cage



剖分式调心滚子轴承

Spilt spherical roller bearings

部分配套剖分轴承

Some spilt bearings

序号	类型	型号	外形尺寸
1	调心滚子轴承	240/850D/W33	$\phi 850 \times \phi 1220 \times 365 \times 660$
2	调心滚子轴承	230/560D/W33	$\phi 560 \times \phi 820 \times 195 \times 300$
3	调心滚子轴承	26/900D/C3W33X	$\phi 900 \times \phi 1270 \times 365 \times 470$
4	调心滚子轴承	26/750D/C4	$\phi 750 \times \phi 1090 \times 310 \times 310$
5	调心滚子轴承	240/850D-1/W33	$\phi 850 \times \phi 1220 \times 365 \times 540$
6	调心滚子轴承	230/630D/W33X	$\phi 630 \times \phi 920 \times 212 \times 330$
7	调心滚子轴承	230/950D/W33X	$\phi 950 \times \phi 1360 \times 300 \times 420$
8	调心滚子轴承	249/800D/C3W33X	$\phi 800 \times \phi 1060 \times 370$
9	调心滚子轴承	240/1060D/C3W33X	$\phi 1060 \times \phi 1500 \times 618$
10	圆柱滚子轴承	NU6/1200D	$\phi 1200 \times \phi 1520 \times 185 \times 185$
11	圆柱滚子轴承	LY-N037	$\phi 600 \times \phi 775 \times 278 \times 380$



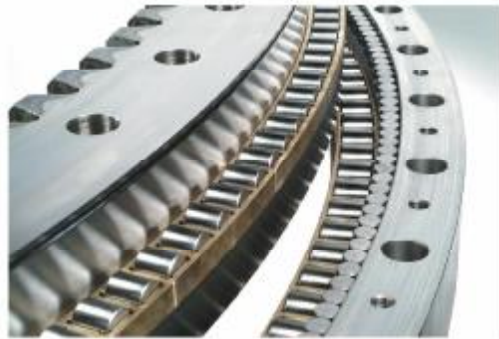
钢包回转台配套轴承 Ladle turret turntable bearings

钢包回转台转盘轴承:

钢包回转台转盘轴承要求具有较高的承载能力和高的可靠性,LYC生产的转盘轴承已经系列配套于80、100、120、150、180、200、250吨钢包回转台。

Ladle turret turntable bearings :

It require ladle turret slewing bearing with high load support capacity and high reliability . LYC slewing bearings have mated in series of 80、100、150、180、200、250tons converter ladle turret successfully .



- 中国最早研究、设计、制造转盘轴承的企业,有着四十多年的成功经验,质量可靠性处于国内领先水平。
- 起草转盘轴承标准(JB/T10471-2004),规范了国内转盘轴承设计、制造、检验和验收标准。
- 创造了外形尺寸最大、最重、结构最复杂、零件最多等中国轴承之最。

常用转盘轴承结构形式:

四点接触球转盘轴承

双排角接触推力球转盘轴承

交叉圆柱滚子转盘轴承

三排圆柱滚子组合转盘轴承

按齿分布部位又分为:

无齿式、外齿式、内齿式等不同结构

Standard slewing bearing structure:

Four—point contact slewing ball bearings

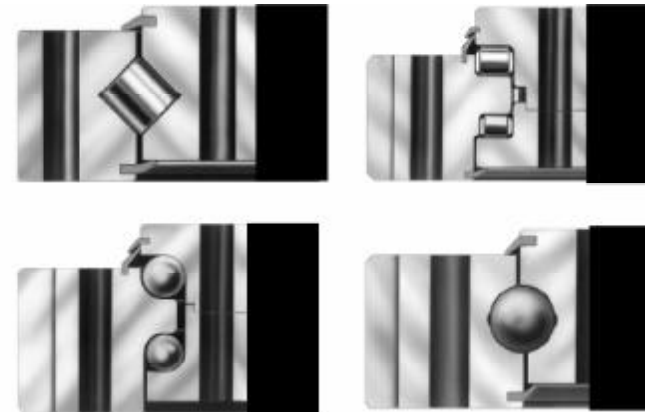
Double-row angular contact thrust slewing ball bearings

Crossed cylindrical roller slewing bearings

Three-row cylindrical roller combined slewing bearings

According to gear position divided:

Non-gear, out-gear, inner-gear etc different structure



- The earliest research, design, slewing bearing-making enterprise in China with over 40 year's experience, quality reliability is advanced in the country.
- Drafted Slewing Bearing Standard (JB/T10471-2004), criterion domestic slewing bearing design, process, test, inspection standard.
- Created the most boundary size, the heaviest, the most complicated structure, the most components in Chinese bearing industry.

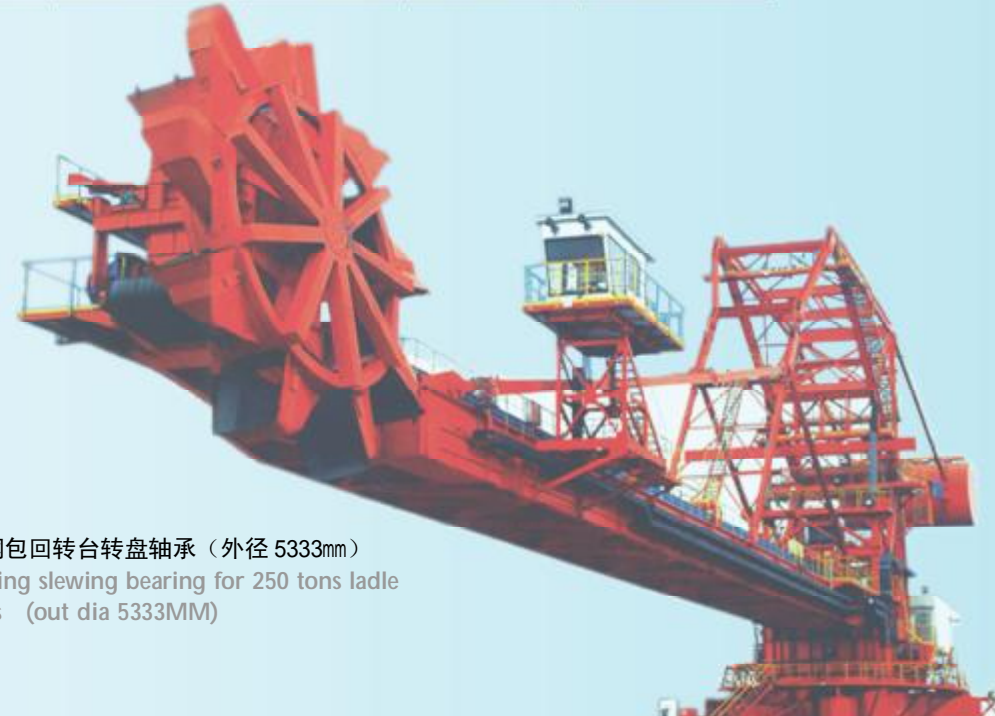


LYC 公司生产的目前国内最大的转盘轴承--外径 6250mm
LYC made the largest slewing bearing out dia 6250mm in China



部分成功配套产品:
Some successful mating products:

序号	类型	型号	尺寸	安装部位
1	三排组合滚子轴承	6397/4440	4440*5232*235	250吨钢包回转台
2	三排组合滚子轴承	6397/4246	4246*4680*233	250吨钢包回转台
3	三排组合滚子轴承	5397/4580	4680*5333*305	250吨钢包回转台
4	三排组合滚子轴承	6397/3650K	3650*4266*222	150吨钢包回转台
5	三排组合滚子轴承	6397/3870	3870*4527.6*240	200吨钢包回转台
6	三排组合滚子轴承	6397/3582	3340*3931*212	150吨钢包回转台
7	三排组合滚子轴承	6397/3340	3340*3931.2*212	150吨钢包回转台
8	三排组合滚子轴承	132.50.4000.03	3718*4400*270	100吨钢包回转台
9	交叉滚子转盘轴承	1797/3230GK4	3230*4100*240	堆取料机
10	交叉滚子转盘轴承	132.50.3550.03	3268*3933*270	堆取料机
11	交叉滚子转盘轴承	1797/2500G2	2500*2980*180	堆取料机



成功配套多家 250 吨钢包回转台转盘轴承（外径 5333mm）
Succeeded in assembling slewing bearing for 250 tons ladle turrets for many users (out dia 5333MM)



轧机配套轴承 Rolling mill bearings

常用结构形式：

- 双列、四列圆锥滚子轴承
- 双列、四列圆柱滚子轧机轴承
- 密封式四列圆锥滚子轴承
- 森吉米尔轧机轴承

Common structure:

- Double row, four row taper roller bearings
- Double row, four row cylindrical roller bearings
- Sealing four row taper roller bearings
- SM rolling mill bearings

主要应用于冶金轧机工作辊、中间辊、支撑辊及压下机构。

LYC 采用先进的长寿命设计方法,加工设备精良,材料选用考究,生产出的产品具有较高的耐磨性、抗冲击性,轴承运行安全可靠。

Mainly application for metallurgical working roll ,mid roll ,support roll and press below structure.

LYC adopt advanced long life design to process by excellent equipment, materials are strictly selected, the products are highly to bearing grinding , anti-impact, bearing performance safety and reliable.



LYC 生产的双列、四列圆锥滚子轧机轴承

LYC double-row, four row taper roller rolling mill bearings



双列、四列圆锥滚子轴承：

该类轴承由于滚子列数增加,径向负荷能力增大,同时能够承受较大的双向轴向负荷,径向、轴向负荷能力都很大,可减化辊系结构,安装及维护简单。LYC 公司生产的双列、四列圆锥滚子轧机轴承已广泛应用于国内冶金行业,并实现批量出口。

Double-row、four-row taper roller bearings:

As number of roller rows increased, radial load capacity enlarged, this kind of bearings can bear larger bilateral loads simultaneously, because radial and axial loads are larger , it can simplify roller structure, installation and maintenance are simple, LYC double-row. Four-row taper roller rolling mill bearings have been widely used in domestic metallurgical industry and start to export by lot.



四列圆柱滚子轧机轴承

Sealed cylindrical roller bearings
for rolling mill

双列、四列圆柱滚子轧机轴承:

该类轴承只能承受径向负荷，需同时配以其它推力轴承来承受轴向负荷，一般情况下，固定端采用双向推力圆锥滚子轴承承受轴向负荷，滑动端用深沟球轴承避免轴承箱脱落。LYC 公司生产的双列、四列圆柱滚子轧机轴承已广泛应用于热轧带钢、冷轧带钢、型钢、线材等生产线轧机轧辊。

Double-row、four-row cylindrical roller bearings for rolling mill :

This kind of bearings can only bear radial loads , and fit with other thrust bearings to bear axial load simultaneously , In normal condition , adopt bilateral thrust taper roller bearing on fixed end to bear axial load and deep-groove ball bearing on sliding end to avoid dropping out bearing box . LYC double-row、four-row cylindrical roller rolling mill bearings are widely used in mill rolls for production line of hot rolling steel strip, cold rolling steel strip, shaped steel , wire rod etc ,production line rolling roll.



密封轧机轴承

Sealed rolling mill bearings

密封式四列圆锥滚子轴承:

轧机轴承由于其工况条件恶劣，为了配合冶金行业的发展,开拓轧机轴承市场，LYC 公司研制了密封结构的双、四列圆锥滚子轧机轴承来改善轴承工作环境，从而提高了轴承寿命，减少了轴承更换次数，提高了生产效率，减少了润滑脂用量，减低了油污排放及处理费用。LYC 公司生产的密封式四列圆锥滚子轴承已广泛配套于热连轧、冷连轧、宽厚板等大型、高速轧制生产线轧机轧辊。

Sealed four-row tapered roller bearings:

Rolling mill bearing in hard working condition, in order to develop metallurgical rolling bearings market , LYC design sealed double-row four-row tapered roller rolling mill bearing for good condition to improve life and less to exchange to increase production capacity and reduce the use of grease and less pollution . LYC sealed four row taper roller rolling mill bearings widely used for hot and cold continues rolling mill and thick board, high speed wire rolling rolls .



森吉米尔轧机轴承

SM bearings

森吉米尔轧机轴承:

森吉米尔轧机轴承是高速、高精度薄板轧机轴承，它通常轧制 0.2—2 毫米超薄钢板，所用轴承是以几个为一组配对作为轧机支承辊，其同组轴承的内径、外径、游隙和截面高度的相互差均有严格的要求。LYC 公司已成功研制并批量生产了 20 辊森吉米尔轧机轴承。产品使用寿命达到国外进口产品的同等水平。

Sm bearings :

SM bearing is high speed precision rolling thin plate rolling mill bearings, it can make 0.2-2mm supper steel plate. A few bearings as group for supporting roll, same group bearing inner dia, out dia, clearance and section height has strict requirements. LYC has design to make 20 rolls SM bearings the life come up to the same standard. as imported bearings.



轧机轴承配套业绩

Assembling achievements of rolling mill bearings

LYC 公司作为国内冶金轧机轴承的发源地，于 1959 年试制成功了我国第一套特大型轧机轴承 777/650，结束我国不能生产特大型轧机轴承的历史。

- 1、国内首家为 1700、2150 热连轧机生产线配套；
- 2、国内首家为 1870 冷轧薄板生产线配套；
- 3、国内首家为 4200 宽厚板生产线配套；
- 4、国内首家为准高速线材轧制生产线配套；
- 5、国内首家为无缝管生产线配套；
- 6、国内首家为轨梁轧机线配套；
- 7、国内首家为火车轮毂轧制生产线配套；
- 8、国内首家为不锈钢轧制生产线配套；
- 9、国内首家为大 H 型钢轧机线配套。

LYC 公司冶金轧机轴承品种和数量不断扩展，现已形成系列化和标准化，并已**批量配套现代大型轧机 1450、1700、1780、2150 及铝箔轧机等生产线**。并在森吉米尔轴承、高速线材轴承等高精、高技术含量、高附加值行业实现突破，打破国外轴承的垄断，填补国内空白。

LYC is the birthplace of domestic rolling mill bearings , made the first extra large-size bearing No.777/650 in 1959. Ended the Chinese history that can not make extra large-size rolling mill bearing history .

1. The first domestic 1700、2150 hot tandem mill production lines assembling.
2. The first domestic 1870 cold rolling thin plate line assembling.
3. The first domestic 4200 wide thick board production lines assembling.
4. The first domestic standard high speed wire mill production lines assembling.
5. The first domestic seamless tube production line lines assembling .
6. The first domestic rail and structural steel mill production lines assembling.
7. The first domestic wheel hub mill production lines assembling.
8. The first domestic stainless mill production lines assembling.
9. The first domestic H type steel rolling mill production lines assembling.

LYC develop kinds of metallurgical rolling mill bearings in large quantities , with series and standard organization, equipped with modern large 1450、1700、1780、2150 production lines , but create SM bearings . high speed wire in high technological precision and additional value , break down oversea monopolization , fill in domestic blank .



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