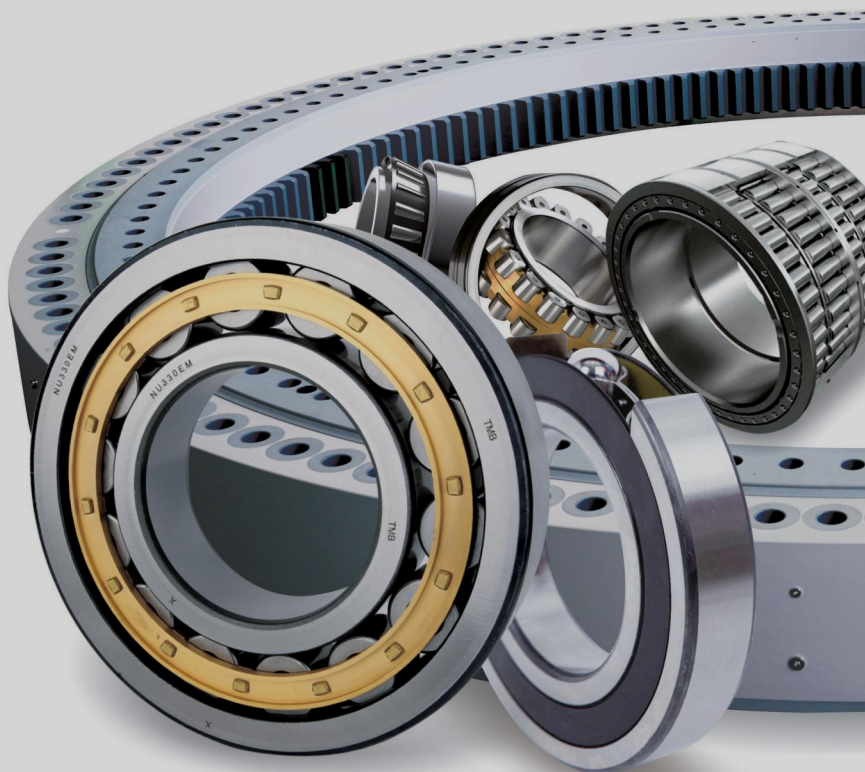


**TMB**® 运转无忧  
Never Stop Running

# 轴承综合型录



**深沟球轴承**

247

---

**圆柱滚子轴承**

305

---

**角接触轴承**

409

---

**圆锥滚子轴承**

445

---

**球面滚子轴承**

559

---

**自调心球轴承**

619

---

**推力球轴承**

639

---

**圆柱滚子推力轴承**

665

---

**球面滚子推力轴承**

677

---

**关节轴承**

693

---



# 轴承综合型录



# 目录

公司寄语 .....	04
生产基地 .....	05
品牌力量 .....	07
合作伙伴 .....	08
全产业链 .....	09
制造实力 .....	11
公司产品 .....	14
应用领域 .....	18
研发实力 .....	22



## 公司寄语

三十年风雨兼程，天马轴承的每一点进步与成长都离不开社会各界友人的关心与帮助，离不开广大客户的信赖和支持，对此，天马人将永怀感恩之心。

今天，我们迈入了一个全球化的时代，全球化的轴承市场是我们走向长远的有力支撑，我们努力为客户提供高附加值的产品，让客户满意是我们的服务宗旨，同时持续为社会创造更高价值。天马虽声名远扬，却从不敢懈怠，始终坚持以全部的心力，努力打造一流企业为目标，朝着“振兴民族轴承工业，打造中华民族品牌”宏伟目标迈进。

展望未来，为践行肩负起振兴民族轴承工业的使命，天马人将迎来更加艰苦卓绝的挑战！公司秉承“开拓、创新、团结、务实”的企业精神，坚持“品牌战略，质量取胜”的方针，立足长远，致力于为广大用户提供优质产品，畅享无忧的售后服务，并不断创新，推出优化新产品，以坚定的信念，脚踏实地，开拓进取，努力创造价值，勇攀高峰。

我们追求稳健经营，诚信为本，我们砥砺前行，为实现天马梦、中国梦前行，共创伟业。

Thirty-years' march forward regardless of hardship , Every progress and growth made by TMB cannot separate from care and help from friends of all walks of life,trust and support from our csutomers .TMB will always be grateful to it.

Today, we have entered an era of globalization. The global bearing market is a strong support for our long-term progress. We strive to provide our customers with high-value-added products. It is our purpose to satisfy our customers and continue to create higher values for society. Although Tianma is famous for its reputation, it has never dared to slack off. It has always adhered to all efforts to build first-class companies as its goal and moved toward the ambitious goal of "revitalizing the National bearing industry and building the Chinese national brand".

Looking forward to the future, in order to carry out the mission of revitalizing the National bearing industry, Tianma people will usher in more arduous challenges! The company adheres to the spirit of "pioneering, innovating, uniting, and pragmatic", adheres to the principle of "brand strategy, quality winning", and is committed to providing high-quality products for users in the long run, enjoying free after-sales service, and constantly innovating. To launch the optimization of new products, with a firm belief, down-to-earth, pioneering, hard to create value, bravely climb the peak.

We pursue for steady and healthy management and take integrity as the foundation.We forge ahead to realize TMB dream ,Chinese dream and create great achievement.



## 浙江生产基地

浙江天马轴承集团有限公司（以下简称公司）是一家致力于研发、生产、销售高端稀土轴承材料、高氮钢与长寿命精密轴承的国家高新技术企业、中国轴承行业龙头企业，拥有30年的发展历史，是国内轴承行业唯一集高端轴承材料、长寿命精密轴承和精密装备于一体的复合型精密轴承制造企业。公司注册资本18亿元，占地近1000亩，具有年产3亿套精密轴承的生产能力。公司依托高端材料，专业生产十大类共6000多个品种的轴承产品。公司主导产品为短圆柱滚子轴承、深沟球轴承、圆锥滚子轴承、调心滚子轴承、风力发电轴承、角接触球轴承、铁路轴承、石油机械轧机轴承等。其中短圆柱滚子轴承、深沟球轴承、风电、铁路等产品国内市场占有率一直位居行业前列。产品广泛应用于航空、风电、铁路、高端数控机床、新能源汽车、轨道交通、船舶、机械、纺织、冶金等众多领域。

Zhejiang Tianma Bearing Group Co., Ltd. (hereinafter referred to as the company) is a national high-tech enterprise dedicated to R&D, production and sales of high-end rare earth bearing materials, high-nitrogen steel and long-life precision bearings, China's leading bearing industry enterprises, with a 30-year history of development, is the only domestic bearing industry set of high-end bearing materials. Compound precision bearing manufacturer is a composite precision bearing, long life precision bearing and precision equipment. The company has a registered capital of 1 billion 800 million yuan, covering an area of nearly 1000 mu, with an annual production capacity of 300 million sets of precision bearings. The company relies on high-end materials, specializing in the production of ten categories of more than 6000 varieties of bearing products. The company's leading products are short cylindrical roller bearings, deep groove ball bearings, tapered roller bearings, self-aligning roller bearings, wind power generation bearings, angular contact ball bearings, railway bearings, petroleum machinery rolling mill bearings and so on. Short cylindrical roller bearings, deep groove ball bearings, wind power, railway and other products have been in the forefront of the domestic market share. Products are widely used in aviation, wind power, railway, high-end CNC machine tools, new energy vehicles, rail transit, ships, machinery, textiles, metallurgy and many other fields.

公司设有国家认定企业技术中心、国家认可实验室、院士工作站、博士后科研工作站、省级新材料研发中心和市级高端精密轴承研发中心。

The company has a national certified enterprise technology center, national accredited laboratory, academician workstation, postdoctoral research workstation, provincial new material research and development center and municipal high-end precision bearing research and development center.

公司在浙江、四川、江苏、贵州等地拥有生产基地，产品畅销全国，并远销德美日韩等发达国家和地区。公司自有品牌“TMB”为中国名牌、中国驰名商标、最具市场竞争力品牌。公司有完备的质量管理体系、环境管理体系和职业健康安全管理体系。公司先后荣获“中国机械工业百强企业”、“中国民营500强”等称号。

The company has production bases in Zhejiang, Sichuan, Jiangsu, Guizhou and other places. The products are sold well all over the country, and are exported to Germany, the United States, Japan and South Korea and other developed countries and regions. The company's own brand "TMB" is China's famous brand, China's well-known trademark and the most competitive brand in the market. The company has complete quality management system, environmental management system and occupational health and safety management system. The company has won the title of "top 100 enterprises in China's machinery industry" and "top 500 private enterprises in China".

**1,800,000,000** 元      **4,500,000,000** 元      **2000** 亩  
 公司注册资本      年产值      公司占地

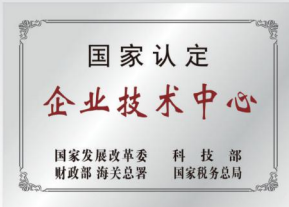
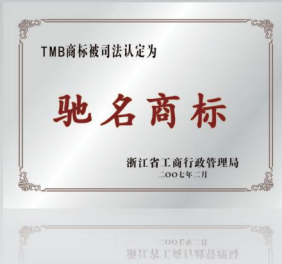


## 四川生产基地

成都天马精密机械有限公司位于四川省成都市，占地600余亩，专业生产高端轴承材料、铁路轴承、风力发电轴承、工程机械轴承等，具有年产600万套精密轴承的生产能力，依托先进的制造技术和优质的产品，赢得了国内外众多用户的认可与信赖，产品远销美国、德国、丹麦等十多个国家和地区，产品广泛应用于铁路、风力发电、工程机械、吊机、港机等重大领域。

Chengdu Tianma Precision Machinery Co., Ltd. is located in Chengdu, Sichuan Province, covering an area of more than 600 mu, specializing in the production of high-end bearing materials and railway bearings, wind power bearings, construction machinery bearings, etc., with an annual production capacity of 6 million sets of precision bearings, relying on advanced manufacturing technology and high-quality products, won numerous at home and abroad. Users' recognition and trust, products are exported to the United States, Germany, Denmark and more than ten countries and regions, products are widely used in railways, wind power generation, construction machinery, cranes, port machinery and other major areas.





## Brand strength 品牌力量

公司自有品牌“TMB”为中国名牌、中国驰名商标、最具市场竞争力品牌。  
公司有完备的质量管理体系、环境管理体系和职业健康安全管理体系。公司先后荣获“中国机械工业百强企业”、“中国民营500强”等称号。

The company's own brand "TMB" is China's famous brand, China's well-known trademark and the most competitive brand in the market. The company has complete quality management system, environmental management system and occupational health and safety management system. The company has won the title of "top 100 enterprises in China's machinery industry" and "top 500 private enterprises in China".

# TMB®

## Important partners

### 重要合作伙伴

互利共赢共谋发展-尊重合作伙伴利益诉求-谋求长期深度合作-相信专业,共筑领先价值-诚实守信,坦诚相待。

Mutual benefit, win-win development and common development - respect for the interests of partners and seek long-term deep integration Make believe professional and build the leading value - honesty, trustworthiness and honesty.



SIEMENS

Vestas  
No.1 in Modern Energy



金风科技  
GOLDWIND

KOBELCO  
KOBELCO CONSTRUCTION MACHINERY



Nabtesco



CATERPILLAR®



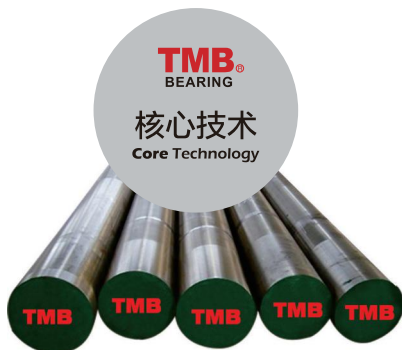
Rexroth  
Bosch Group



CARRARO DRIVETECH



# Whole Industry Chain 全产业链



钢材 (棒料、冷拉型钢、盘圆)  
Steel (bar, cold drawn steel, Pan Yuan)



精密钢球  
Precision Steel Ball

精密滚柱  
Precision Roller



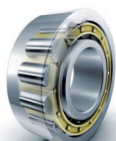
轴承套圈  
Bearing Ring

全产业链: "材料、轴承、装备"于一体的全产业链, 形成公司无可替代的核心竞争力。

公司自主研发的高端轴承材料将用于长寿命精密轴承的用材, 材料通过锻造、退火进入车加工或冷辗成型进行热处理, 然后再通过磨超装等工序完成成品轴承的制造; 轴承将为装备提供高精度专用轴承; 装备作为生产精密轴承的专业高精度装备; 轴承加工过程中产生的余料作为高端轴承材料循环利用, 形成了公司完整的全产业链。

Whole industry chain: "materials, bearings, equipment" in one of the whole industry chain, forming the company's irreplaceable corecompetitiveness.

High-end bearing materials developed by the company will be used for long-life precision bearings, materials through forging, annealing into turning or cold rolling forming for heat treatment, and then through the grinding and overloading process to complete the manufacture of finished bearings; bearings will provide high-precision special bearings for equipment; equipment as the production of precision bearings Professional high-precision equipment; bearing processing surplus material as high-end bearing material recycling, forming a complete company industry chain.



短圆柱滚子轴承  
Short Cylindrical Roller Bearings



深沟球轴承  
Deep Groove Ball Bearing



圆锥滚子轴承  
Tapered Roller Bearing



调心滚子轴承  
Spherical Roller Bearings

**TMB**®

运转无忧  
Running Smoothly

**全产业链**

Whole Industry Chain Model

## 国内领先的生产设备 Leading Domestic Production Equipment

公司拥有目前轴承行业最为先进的材料冶炼、电渣重熔、轧制、辗扩设备若干台，轴承产品的锻、车、热处理、磨、超、装等工序自动化生产线若干条，确保了TMB牌产品的高品质、企业的健康发展。

The company has the most advanced material smelting, electroslag remelting, rolling, rolling and rolling equipment in the bearing industry at present, and several automatic production lines for forging, car, heat treatment, grinding, super-loading and other processes of bearing products, which ensure the high quality of TMB products and the healthy development of enterprises.



锻加工生产线  
Forging Production Line



高端热处理设备  
High-end Heat Treatment Equipment



智能化车加工生产线  
Intelligent Processing Production Line



热处理生产线  
Heat Treatment Line



风电轴承生产线 Wind Power Bearing Production Line



智能化磨超装生产线 Intelligent Grinding And Super Finishing Production Line



精密电机轴承生产线  
Precision Motor Bearing  
Production Line



TOYO磨超装自动线  
Toyo Processing And Assembling  
Production Line



智能化装配线  
Intelligent  
Assembly Line





微型球轴承  
Miniature Ball  
Bearing



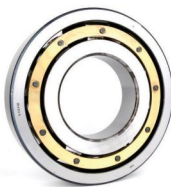
开式深沟球轴承  
Open Deep Groove Ball  
Bearing



密封深沟球轴承  
Sealed Deep Groove  
Ball Bearings



角接触球轴承  
Angular Contact Ball  
Bearings



大型深沟球轴承  
Large deep groove ball  
bearings



四点接触球轴承  
Four Point Contact Ball  
Bearing



压缩机轴承  
Compressor  
Bearing



圆柱滚子轴承  
Cylindrical Roller  
Bearings



电机轴承  
Motor Bearing



调心滚子轴承  
Spherical Roller  
Bearings



双列滚子轴承  
Double Row Roller  
Bearing



非标轴承  
Nonstandard Bearing

## 全系列产品

Full Range Of Products

## 广泛的产品范围 专业的轴承制造者

公司生产的TMB牌精密轴承覆盖10大类6000多个品种，产品内径小到5mm，外径大到12m，尺寸跨度居全国之最。其中，短圆柱滚子轴承、深沟球轴承、铁路轴承、风电轴承等国内市场占有率多年来一直稳居行业前列。以客户为中心的理念及专业的长寿命轴承制造水平，使天马成为全球范围内知名和可靠的合作伙伴。

The TMB precision bearing produced by the company covers more than 6000 varieties of 10 categories. The inner diameter of the product is less than 5mm, the outer diameter is larger than 12m, and the dimension span is the largest in the country. Among them, short cylindrical roller bearings, deep groove ball bearings, railway bearings, wind power bearings and other domestic market share has been in the forefront of the industry for many years. With the concept of customer-centered and professional manufacturing level of long-life bearings, Tianma has become a well-known and reliable partner in the world.



圆锥滚子轴承  
Tapered Roller Bearing



铁路轴承  
Railway bearing



轧机轴承  
Rolling mill bearing



推力滚子轴承  
Thrust Roller Bearing



风电轴承  
Wind Turbine Slewing  
Bearing

## Full Range Of Products

# 全系列产品

公司生产的TMB牌精密轴承覆盖10大类6000多个品种，产品内径小到5mm，外径大到12m，尺寸跨度居全国之最。其中，短圆柱滚子轴承、深沟球轴承、铁路轴承、风电轴承等国内市场占有率多年来一直稳居行业前列。以客户为中心的理念及专业的长寿命轴承制造水平，使天马成为全球范围内知名和可靠的合作伙伴。

The TMB precision bearing produced by the company covers more than 6000 varieties of 10 categories. The inner diameter of the product is less than 5mm, the outer diameter is larger than 12m, and the dimension span is the largest in the country. Among them, short cylindrical roller bearings, deep groove ball bearings, railway bearings, wind power bearings and other domestic market share has been in the forefront of the industry for many years. With the concept of customer-centered and professional manufacturing level of long-life bearings, Tianma has become a well-known and reliable partner in the world.



▲ 圆柱滚子轴承 Cylindrical Roller Bearings



深沟球轴承 Deep Groove Ball Bearings ▲

▼ 圆锥滚子轴承 Tapered Roller Bearings



角接触球轴承 Angular Contact Ball Bearings ▼





▲ 调心滚子轴承 Spherical Roller Bearings

▼ 风电回转支承 Wind Power Slewing Bearings

推力调心滚子轴承 Thrust Spherical Roller Bearings ▼



◀ 微型轴承  
Miniature Bearings

**Industrial Solutions**  
**应用领域**



**新能源汽车领域**  
**New energy vehicle**



汽车轴承  
Automobile Bearing



铁路轴承  
Railway bearing

**铁路领域** **Railway**

天马在铁路工程领域拥有30多年的专业经验。我们与车辆制造商和运营商紧密合作，为铁路货车、客车和轨道交通开发及生产多种轴承，多年来国内市场占有率稳居第一。目前，公司正在研发高铁轴承产品，并取得了一定的成果。

Tianma has more than 30 years of professional experience in railway engineering. We work closely with vehicle manufacturers and operators to develop and produce a wide range of bearings for railway freight cars, passenger cars and rail transit. Over the years, our domestic market share has been the highest. At present, the company is developing high-speed rail bearing products and has achieved some results.



# 风力发电领域

天马是国内最大和种类最齐全的风电轴承制造商，产品覆盖0.1MW-10MW的偏航、变桨、增速机、主轴等陆用与海用风电轴承，产品畅销全国各大风电场，并远销美国、德国、丹麦等国家和地区，因可靠的质量和全方位的服务，深受用户信赖。

Tianma is the largest and most comprehensive manufacturer of wind power bearings in China. Its products cover 0.1MW-10MW wind power bearings for yaw, pitch changer, accelerator, spindle and other land and sea use. Its products are sold well in the major wind farms all over the country and are exported to the United States, Germany, Denmark and other countries and regions. Users trust.



风电轴承  
Wind Turbine Slewing Bearing



## Wind power

Wide range of product applications  
Professional bearing manufacturer

## 广泛的产品应用范围 专业的轴承制造商

Wide range of product applications  
Professional bearing manufacturer



工程轴承  
Construction Machinery



## 汽车领域 Automobile



汽车轴承  
Automobile Bearing

## 工程机领域 Construction Machinery



公司生产的TMB轴承被广泛应用于铁路、风电、航空、船舶、汽车、机床、电机、矿山冶金、纺织化纤、重型机械、农用机械、工程机械、港口机械、电梯、家电等众多领域。

TMB bearings are widely used in railway, wind power, aviation, ship, automobile, machine tool, motor, mining metallurgy, textile and chemical fiber, heavy machinery, agricultural machinery, construction machinery, port machinery, elevators, household appliances and many other fields.



## 机床电机领域

Machine tool & electric motors



电机轴承  
Motor Bearing



工业轴承  
Industrial bearings

## 工业传动

Industrial transmissions







斯派克钢材光谱分析仪  
Steel Spectroscopic Analysis

## 研发实力 **Strong Scientific Research Capability**

公司除拥有齐全的轴承零件检测仪器外，还引进了德国斯派克光谱分析仪、金相分析、震动检测、粗糙度检测、圆度检测、寿命试验等多种国际先进的轴承专用检测设备、实验设备，提高轴承产品各项技术的控制力。

In addition to the complete bearing parts testing equipment, the company also introduced German SPECT spectrometer, metallographic analysis, vibration testing, roughness testing, roundness testing, life testing and other international advanced bearing special testing equipment, experimental equipment, to improve the control of bearing products technology.





Zeiss 金相检测仪 Microstructure Analyser



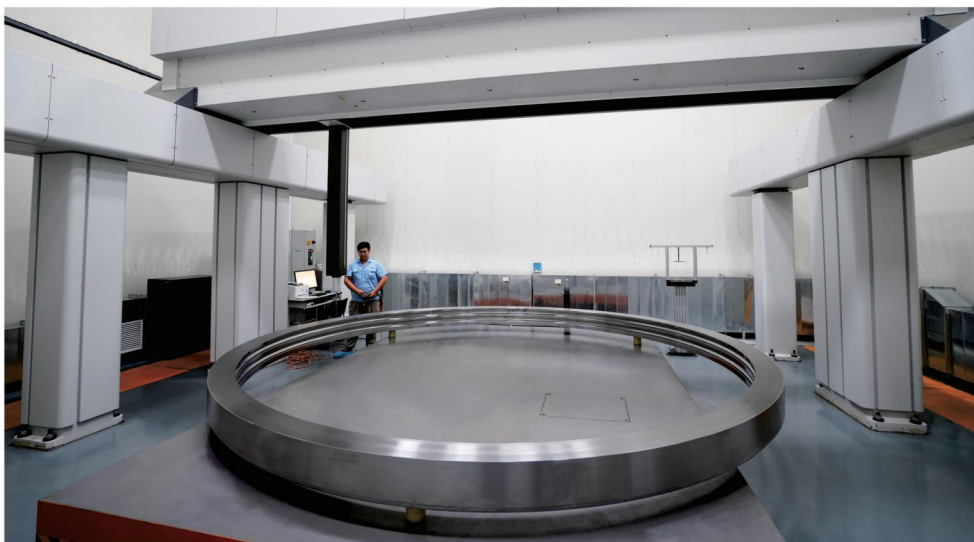
泰勒圆度仪 Taylor Roundness Tester



齿轮测量机 Gear Measuring Machine



三坐标测量机 3-Dimensional Instrument



大型三坐标测量仪  
Large Trilinear Coordinates Measuring Instrument

