

TWB®



江苏帝达贝轴承有限公司

地址: 江苏省无锡锡山经济开发区蓉洋一路8号
邮编: 214192
电话: 86-510-8562 0688
传真: 86-510-8562 6208, 8562 6308, 8562 9206
邮箱: twbinfo@twb.com.cn
网址: www.TWB.com.cn

Jiangsu TWB Bearings Co., Ltd.

Address: No.8 Rongyang Yi Road, Xishan Economic
Development Zone, Wuxi, Jiangsu
Post Code: 214192
Telephone: 86-510-8562 0688
Fax: 86-510-8562 6208, 8562 6308, 8562 9206
E-mail: twbinfo@twb.com.cn
Website: www.TWB.com.cn



关注TWB官方微信

帝达贝® TWB® 是江苏帝达贝轴承有限公司之注册商标
Jiangsu TWB Bearings Co., Ltd. is the trademark owner of 帝达贝® and TWB®

©2018 江苏帝达贝轴承有限公司 · 中国印制
04-20-2018 编号: 1014E

本资料版权归本公司所有, 不得翻印, 违者必究。如有更改, 恕不另行通知。

江苏帝达贝轴承有限公司
Jiangsu TWB Bearings Co., Ltd.



公司介绍 Company Profile

江苏帝达贝轴承有限公司，专业制造TWB®品牌的高品质轴承及相关产品。公司致力于成为中国轴承企业的标杆，以先进适用的技术、稳定可靠的产品和专业周到的服务为用户提供更优性价比的解决方案。

TWB®品牌创立于1996年，主要产品包括调心滚子轴承、圆柱滚子轴承、圆锥滚子轴承、深沟球轴承、角接触球轴承、以及相关零部件等，TWB®产品广泛应用于冶金、矿山、造纸、电梯、水泥、港口起重、工程机械等行业，以优异的性能与稳定的质量赢得客户的信赖。

公司已取得ISO9001质量管理体系认证、ISO14001环境管理体系认证及OHSAS18001职业健康安全管理体系认证。公司坚持选用优质原材料，严格执行过程控制与质量监控标准，确保产品性能与品质高度一致性，为客户提供可靠的产品。同时，公司通过优化产品结构与改进工艺流程，不断提升产品性能，满足客户更高标准的要求；并且还可以通过共同开发满足客户国产化、定制化需求。

Jiangsu TWB Bearings Co., Ltd. is specialized in manufacturing various high-quality bearings and related products. Committed to becoming the benchmark of Chinese bearing companies, TWB provides optimal solutions with advanced & applicable technology, consistent & reliable bearings, and professional & comprehensive services to customers.

TWB® brand was established in 1996, with product range covering spherical roller bearings, cylindrical roller bearings, tapered roller bearings, deep groove ball bearings, angular contact ball bearings, and related parts and accessories. With excellent performance and stable quality, TWB® has been well recognized and wins customers' trust in primary metals, mining, paper, elevator, cement, crane, construction machinery, etc.

The company has obtained ISO9001 Quality Management System certification, ISO 14001 Environmental Management System certification, and OHSAS 18001 Occupational Health and Safety Management System certification. The company provides reliable products by selecting premium raw material, conducting strictly process and quality control standards, which ensure high consistency of performance and quality. Meanwhile, the company improves product performance continuously to meet higher standard requirement from customers, by optimizing product structure and improving manufacturing process, and the company could work with customers in joint effort for localization and customization requirement.



关注TWB官方微信



使命与愿景

Mission & Vision

使命

Mission

以可靠与高性价比的产品助客户提升竞争力。

Support customers to raise competitiveness with reliable and cost-effective products.

愿景

Vision

以增值的产品与服务成为目标市场和客户的首选供应商，让客户、供应商、员工和投资者获得优质的回报。

To become the first choice of bearing suppliers with value-added products and service, which contributes high quality returns for customers, suppliers, employees and investors.

发展历程

Development History

1958

无锡轴承厂建厂
Wuxi Bearing Factory established

1996

与美国托林顿合资创立TWB品牌
Joint venture with Torrington and TWB brand established

2003

铁姆肯公司并购托林顿
Torrington M&A by Timken

2008

成立帝达贝公司
TWB established

2009

新厂房落成并搬迁
New plant completion & Relocation

占地面积 35568 m²
厂房面积 25000 m²
员工人数 560
设备数控化率 90% 以上

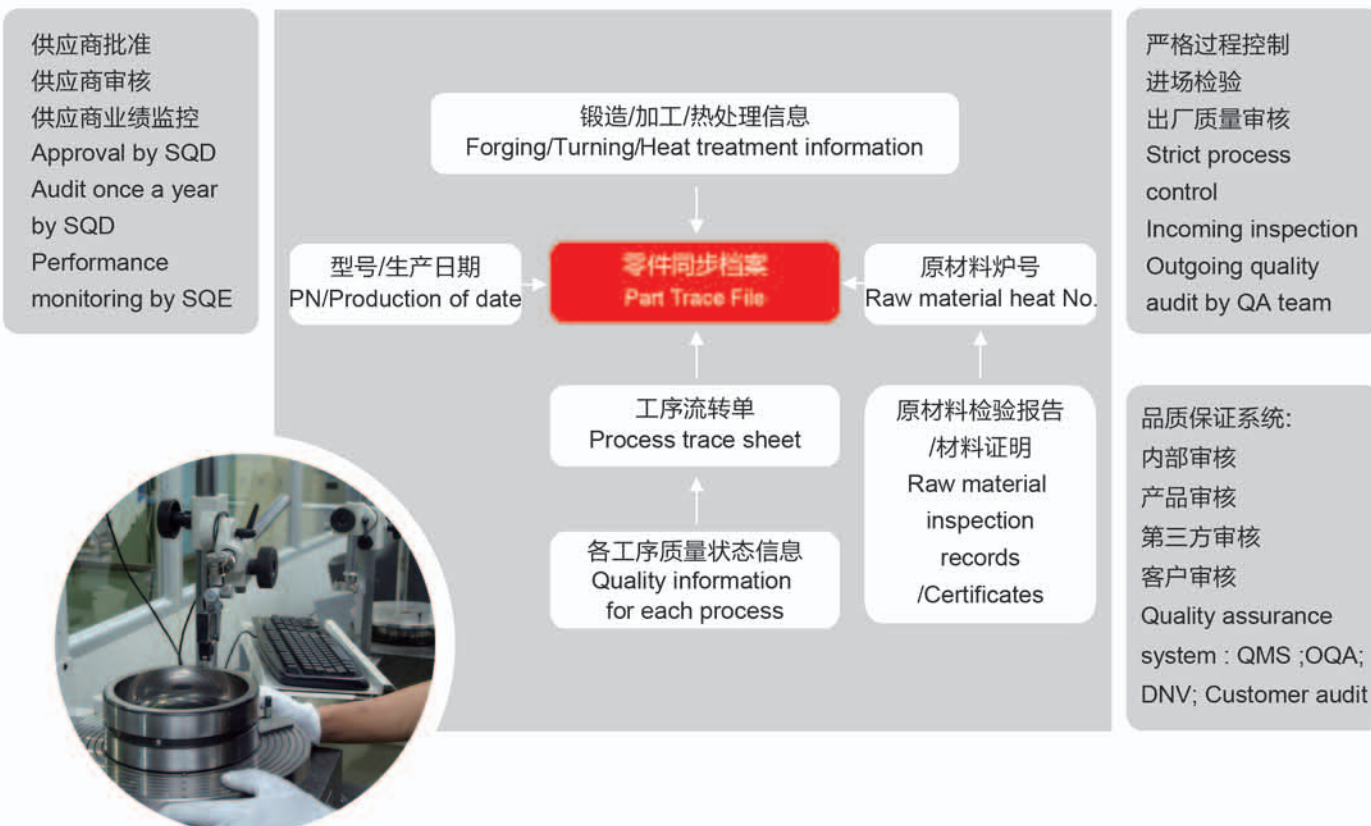
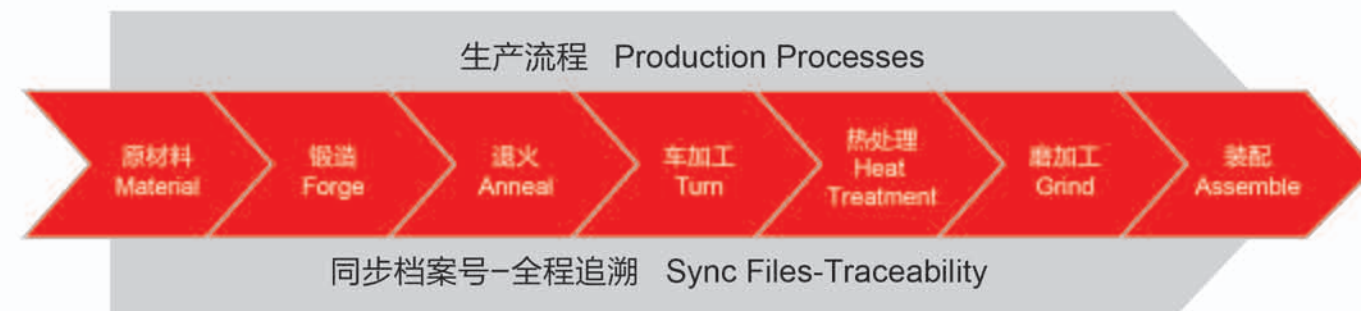
Floor area 35,568 m²
Plant area 25,000 m²
Employees 560
CNC equipment > 90%

市场覆盖 Market Coverage

业务覆盖国内**29**个省和直辖市，以及全球**14**个国家和地区出口业务占总业务量的**10**%
The business covers **29** provinces and municipalities in China, as well as **14** countries and regions around the world.
Export business accounts for **10**% of the total business volume.



严谨的质量控制 Strict Quality Control



质量控制体系 Quality Control System

ISO9001质量体系认证
ISO14001环境体系认证
OHSAS18001职业健康安全体系认证

ISO9001 Quality System Certification
ISO14001 Environment System Certification
OHSAS18001 Occupational Health & Safety
Management System Certification

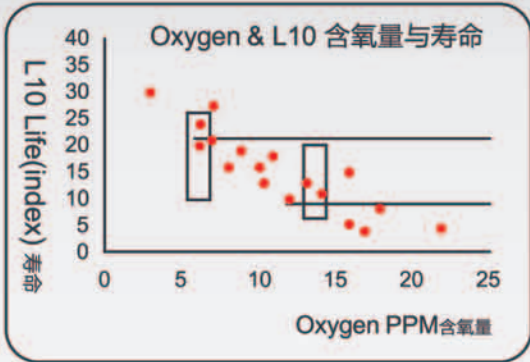


优质原材料

High-Quality Material

符合TWB专用标准的高品质原材料
 严谨的供应商批准与检测程序
 严格的进货检验程序

Approved premium material by TWB
 Rigorous supplier approving & testing procedure
 Strict incoming inspection



理化实验室

Metallurgy Lab

GNR 金属光谱仪
 蔡司金相显微镜
 NewAge碳热分析仪
 Shidai TH320洛氏硬度仪
 Leco Thermo 3460金属分析仪

GNR optical emission spectrometer
 Zeiss metallurgy microscope
 NewAge carbon heat analyzer
 Shidai TH320 rockwell hardness tester
 Leco Thermo 3460 metals analyzer



加工工艺与过程控制

Processing Technology & Process Control

精益生产布局
 封闭恒温恒湿生产车间
 先进的磨床和工艺
 先进的热处理工艺
 磨削冷却液集中循环、温度控制

Lean production layout
 Central air- conditioned Room
 Advance grinding machine & process
 Advanced heat treatment
 Coolant control & treatment center



计量设备

Metrology

霍梅尔T8000轮廓仪
 蔡司ULM600测长仪
 霍梅尔T1000粗糙度仪
 Starrett投影仪
 东京精密圆度测量仪
 东京精密粗糙度仪

Hommel T8000 profile gauge
 Zeiss ULM600 length gauge
 Hommel T1000 roughness gauge
 Starrett projector
 Roundcom 45A roundness gauge
 Surform 1400 roughness gauge

客户至上 Customer Oriented

售前服务 Pre-Sales Service	售中服务 On-Purchase Service	售后服务 After-Sale Service
参与设计、技术交流、 应用培训、选型指导 Participate in the design, Technical workshop, Application training, Selection guide	现场服务、安装指导 On-site service, Installation guide	跟踪服务、测试报告、 客户意见反馈、投诉处理 Tracking service, Test report, Customer feedback, Complaint handling



核心价值 Core Values

- 正直 Ethics & Integrity
- 品质 Quality
- 协作 Teamwork
- 卓越 Excellence

丰富的产品类型 Various Types Of Products

调心滚子轴承	深沟球轴承	圆柱滚子轴承	角接触球轴承	圆锥滚子轴承
Spherical Roller Bearing ID 25mm – OD 800mm	Deep Groove Ball Bearing ID 10mm – OD 300mm	Cylindrical Roller Bearing ID 25mm – OD 400mm	Angular Contact Ball Bearing ID 20mm – OD 300mm	Tapered Roller Bearing ID 25mm – OD 300mm



定制化产品

针对不同行业的应用要求，帝达贝还开发了不同系列的专用轴承，并可根据客户的要求定制不同的专用产品。例如：风机专用轴承(AF)，矿机专用轴承(AM)，振动筛专用轴承(AZ)等，以及其他非标轴承。

Customized products

According to the application requirements of different industries, TWB has also developed different series of special bearings, and customize different special products according to customers' requirements, such as specialized bearings for fan (AF), aggregate (AM), vibration screen (AZ), etc., and other non- standard bearings.

广泛的应用领域 Wide Range of Applications

TWB® 产品广泛用于各种工业领域
TWB® Bearings are applied in various industries

- 电梯 Elevator
- 矿山机械 Mining Machinery
- 水泥机械 Cement Machinery
- 工程机械 Construction Machinery
- 冶金 Primary Metal
- 动力传动 Power Transmission
- 流体机械 Fluid Machinery
- 起重运输 Hoisting & Conveying Machinery
- 造纸机械 Paper Machinery
- 煤矿机械 Coal Mining Machinery
- 粮食机械 Grain Machinery
- 农业机械 Agriculture Machinery
- 洗涤机械 Washing Machinery
- 纺织机械 Textile Machinery

调心滚子轴承

Spherical Roller Bearing

产品特性

- 该系列轴承可承受径向和轴向的联合载荷，能够承受较大的径向载荷，还能承受双向作用的轴向载荷，但不能承受纯轴向载荷；
- 具有良好的调心功能，可以补偿轴与轴承座之间的角度误差；
- 具有较高的承载能力，适用于高载荷场合。

设计优势

- 加强型设计，提高轴承承载能力；
- 优化滚道与滚子的接触状态，优化应力分布状态；
- 严格控制滚子分组差和零件尺寸一致性，提高了轴承的运转精度和寿命；
- 改进保持架设计，提高轴承动态特性。

主要应用

冶金、矿山机械、工程机械、港口起重机械、造纸机械、纺织机械、齿轮箱等。

Product Features

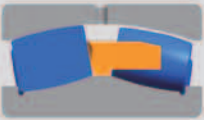
- The series of bearings can bear combined load from radial and axial side, and larger radial load, as well as bilateral axial load, axial load only is not acceptable.
- Good adjustment function can compensate the angle error between the shaft and the bearing seat.
- High bearing capacity, suitable for high load application

Design Advantage

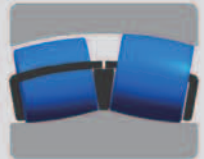
- Enhanced design which increases loading capacity.
- Optimized conformity between rings and rollers, and optimize the stress distribution state.
- Strictly control the conformity of roller group difference and the part size, improve the precision of operation and prolongs life.
- Improved cage design makes bearing dynamic performance better.

Main Applications

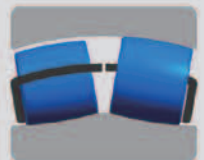
Primary Metal, aggregate, off-highway, port hoisting machinery, paper machinery, textile machinery, gearbox, etc.



CA



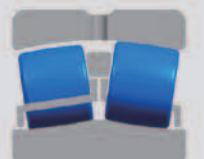
C



CT



MB



E

圆柱滚子轴承

Cylindrical Roller Bearing

产品特性

- 该系列轴承主要承受径向载荷，内、外圈均带挡边的轴承可以承受较小的轴向载荷；
- 单列圆柱滚子轴承为分离型轴承，安装与拆卸方便；
- 带保持架圆柱滚子轴承具有较高的极限转速，满装滚子轴承具有较高的承载能力；
- 单列圆柱滚子轴承可用做非定位、半定位及定位轴承。

设计优势

- 加强型设计，提高轴承承载能力，具有互换性，寿命更长；
- 采用优化的凸度滚子，优化应力分布状态，提高轴承寿命；
- 改善滚子与滚道接触和润滑状态，更合适高速运行；
- 可选用整体式保持架，可靠性高。

主要应用

电机、机床、工程机械、轻工机械、造纸机械、纺织机械等。

Product Features

- The series of bearings are mainly subjected to radial load, the inner and outer ring with the retaining edge of the bearing can bear smaller axial load.
- Single row cylindrical roller bearings is of separable bearing, easy installation and disassembly.
- The speed limit of cylindrical roller bearing with cage is high, higher loading capacity when filling all the rollers.
- Single row cylindrical roller bearings can be used for non positioning, semi positioning and positioning bearings.

Design Advantage

- Enhanced design with longer life, improve loading capacity, and interchangeability as well.
- Improved crowned rollers which optimize the stress distribution state, and prolong life.
- Improved contact and lubrication between rings and rollers, more suitable for high speed operation.
- Optional one-piece bronze cage with high reliability.

Main Applications

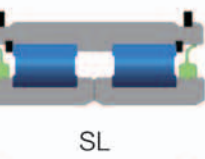
Electric motors, machine tools, off-highway, light industry machinery, paper machinery, textile machinery, etc.



NJ



NU



SL



SL

深沟球轴承 Deep Groove Ball Bearing

产品特性

- 该系列轴承主要承受径向载荷，也能承受一定的轴向载荷；
- 运转阻力小，极限转速高，旋转精度高，噪声、振动小。

结构与设计

提供全尺寸段各种结构设计，如开式轴承，单面密封轴承（-Z, -RS, -RZ），双面密封轴承（-2Z, -2RS, -2RZ），带止动槽、带或不带止动环的轴承。

主要应用

电机，机床，精密设备，化工机械，通用机械，农业机械等。

Product Features

- This series of bearings mainly bear radial load with limit axial load.
- Low running resistance with high rotational speed limit, high rotation precision with low noise and vibration.

Structure and Design

- TWB can provide full range of structural design, as open type, single side sealed type (-Z, -RS, -RZ), double side sealed type (-2Z, -2RS, -2RZ) with snap, with or without snap ring bearing.

Main Applications

Electric motors, machine tools, precise devices, chemical machinery, general machinery, agricultural machinery, etc.



开式 Open



密封式 Sealed

角接触球轴承 Angular Contact Ball Bearing

产品特性

- 能同时承受径向和轴向的联合负荷或纯轴向负荷；
- 运转阻力小，极限转速高；
- 旋转精度高；
- 噪声、振动小；
- 单列角接触球轴承只能承受一个方向的轴向力，通常成对使用平衡轴向力。

结构与设计

提供多种结构类型：单列角接触球轴承，配对角接触球轴承，双列角接触球轴承和四点接触球轴承等。

主要应用

机床、精密仪器、流体输送机械、轻工机械等。

Product Features

- To bear combined load from radial and axial side or axial side only.
- Small running resistance with high speed limit.
- High rotating precision.
- Low noise, low vibration.
- Single row bearings can only bear the axial force from one direction, usually use duplex bearing to balance axial force.

Structure Design

TWB provide different types: angular contact ball bearing of single row, matched pair and double row, four point contact angular contact ball bearings.

Main Applications

Machine tools, precise devices, fluid delivery machinery, light industry machinery, etc.



圆锥滚子轴承 Tapered Roller Bearing

产品特性

- 主要适用于承受以径向载荷为主的径向与轴向联合载荷，圆锥滚子轴承接触角越大，可承受的轴向载荷越大；
- 单列圆锥滚子轴承为分离型轴承，其内组件和外圈可以分别安装，在安装和使用过程中可以调整轴承的径向游隙和轴向游隙；
- 圆锥滚子轴承一般采用钢板冲压保持架，尺寸较大时采用钢板焊接保持架或钢制支柱实体保持架。

结构与计

包括单列圆锥滚子轴承，双列圆锥滚子轴承和四列圆锥滚子轴承等，其中有标准设计的公制轴承，也有英制轴承和根据不同工况设计的非标轴承，以适用不同应用工况。

主要应用

大型机床主轴、车轴轴箱、大功率减速器、轧钢机、支撑辊和工作辊。

Product Features

- Mainly bear combined load from radial and axial side, in which radial load is predominant.
The bigger the contact angle, the larger the axial load.
- Single row tapered roller bearing is a separable bearing. Its inner components can be assembled individually from the outer ring. Its radial and axial internal clearance can be adjusted during installation.
- Stamped steel cage is common selection for tapered roller bearing, and welded steel cage or pin-assembled cage is used for large size bearing.

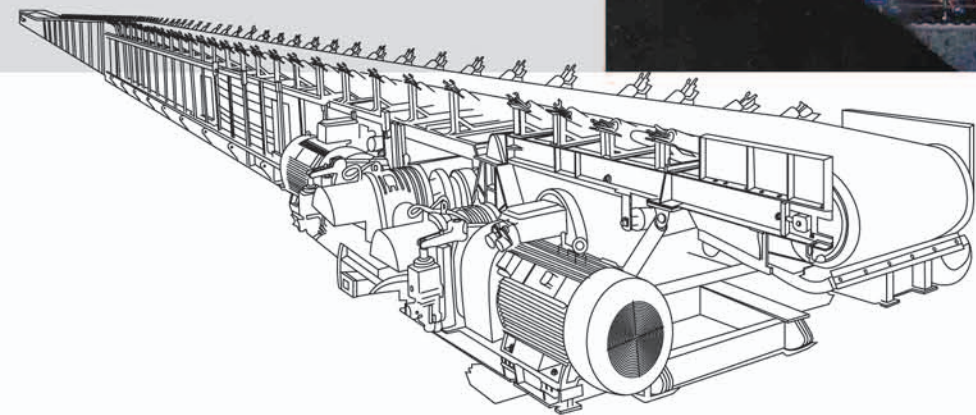
Structure and Design

- TWB tapered roller bearing has single row, double row, four-row types, including standard metric bearings and inch bearings and non-standard bearings which customized for different applications.

Main Applications

Shaft of large machine tool, wheel shaft box, large reducer, rolling mill, support roller and work roller.





煤矿机械应用 Coal Mining Machinery Applications

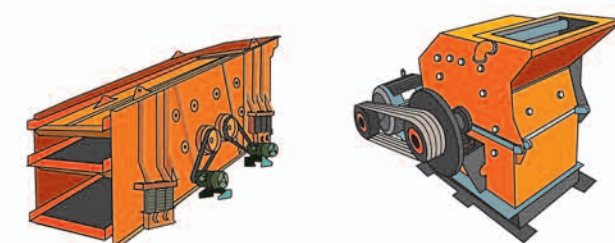
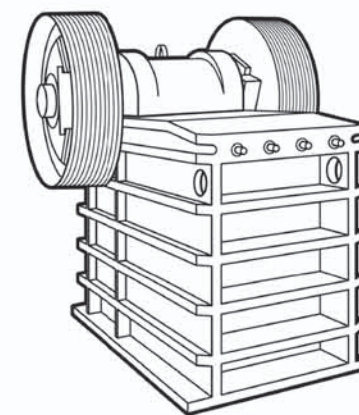
现代煤矿机械的特点是结构紧凑，安全可靠性好，设备成套使用，生产效率高。要求轴承在重负荷、高冲击、高污染条件下安全可靠运行。帝达贝根据该行业特点开发了多品种专用轴承。采用特殊轴承钢，独特的产品设计，特殊的热处理，满足在高污染、冲击负荷条件下长寿命的要求。

Modern coal-mining machinery is featured in compact structure, reliable safety, utilization of whole set, and high production efficiency. Bearing is required to run safely and reliably under heavy load, high impact and heavy pollution. TWB has developed specific kinds of products according to such application features. It adopts the special bearing steel, unique product design and special heat treatment to offer the long life bearing under the condition of extreme contamination, strong impact and heavy load.

矿山/水泥机械应用 Aggregate & Cement Applications

矿山机械恶劣的工作环境，要求轴承在高负载、多粉尘的条件下连续工作。尤其是振动筛和破碎机，其振动对轴承最具破坏性。帝达贝针对矿山机械行业的特殊应用工况，研发了矿机专用轴承，帮助矿山机械设备提高连续运行的可靠性，减少用户维护和修理的成本。

It is necessary for the mineral bearings to work continuously under high load, heavy dust due to tough working environments. The vibration from vibrating screens and crushers, in particular, most frequently causes the bearings damaged. According to the special application conditions of the mining machinery, TWB has developed bearings exclusively for mining, which enable the mining equipment to raise reliability for work continuously, so as to reduce the maintenances and repair cost.



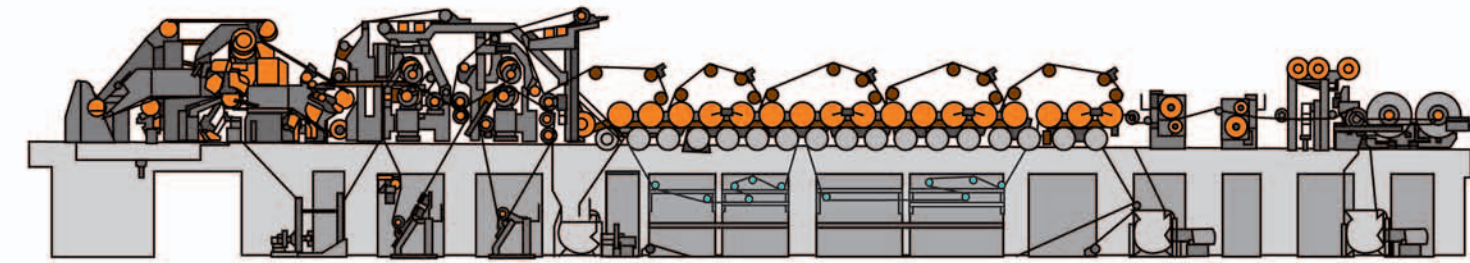
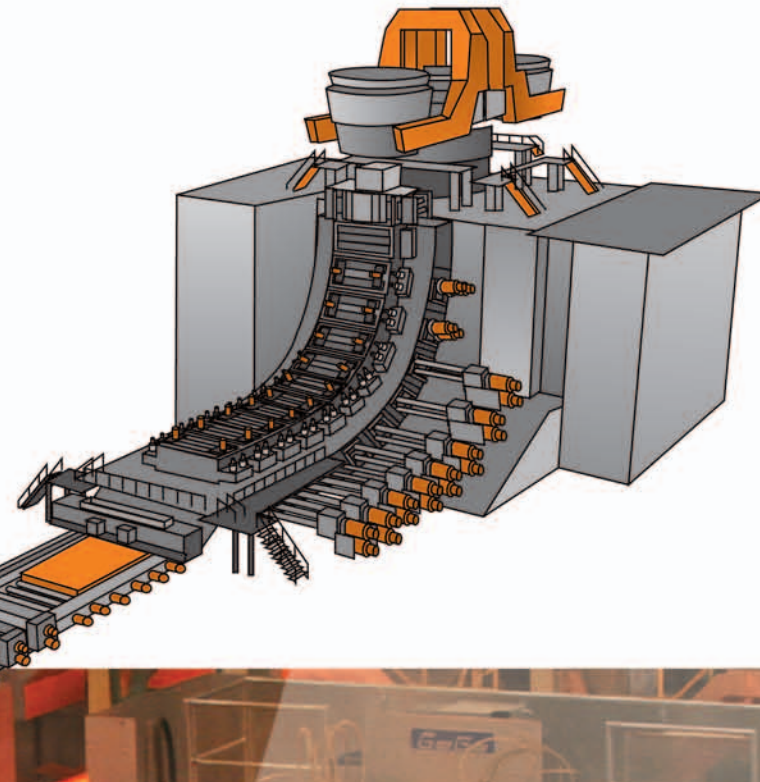
冶金行业应用 Primary Metal Applications

在冶金行业，帝达贝产品主要应用于连铸机、热轧前后及加热炉的输送辊道等。针对连铸机在高温、重载、重污染的工况条件下连续工作的应用特点，帝达贝开发了专用于连铸机的系列产品，主要应用于结晶器振动装置、扇形段及冷却段板坯输送辊道，并已在国内外多家钢厂的新生产线上成功运行。

帝达贝也是钢铁生产企业日常维修轴承的重要供应商，产品广泛应用于齿轮箱、风机及输送辊道等。

In primary metal, TWB bearings are mainly applied in continuous caster, table rolls in hot mills, conveyors of heating furnace and so on. According to the application feature as extremely high temperature, continuous operation under heavy load and heavy pollution, TWB developed a series of bearings dedicated to continuous caster, mainly for mold oscillator and table rolls of bow segments and cooling segments. Some of which have been successfully worked in new lines of domestic and oversea steel companies.

TWB is also the key bearing supplier of repairing and maintenance service in steel plants, which are widely applied in gearboxes, fans, table rolls, etc.



造纸机械应用 Paper Machinery Applications

现代造纸机械的运行特点是生产运行高度自动化，体现出高速、高质、高效及对环境友好的特点。要求轴承在承受重载、高温、高速的条件下能够长期可靠地运行。帝达贝根据造纸设备不同部位的应用特点，开发了专用系列产品。

The operational feature of modern paper-making machinery is highly automatic, which is environment-friendly with high speed, high quality, and high efficiency. The bearing must be worked in a reliable manner under high load, high temperature environment with high speed in a long time. TWB has developed specific series of products according to application feature of different parts in the paper-making machinery.

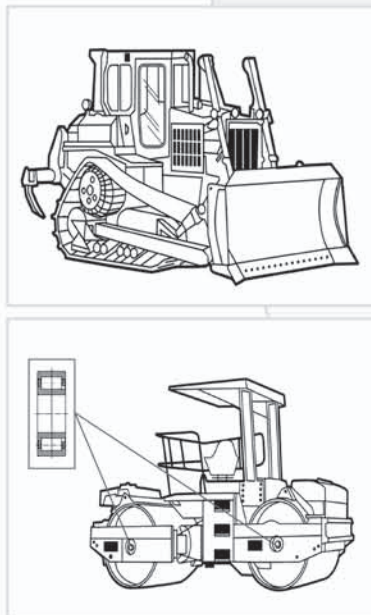


工程机械应用 Construction Applications

工程机械工业是使用一系列不同种类的高度专业化的移动式机械，这些机械在较为恶劣的环境下工作，而且需要在持续的低摩擦工作的同时，不减少载荷能力且组装调整时间最少。

帝达贝已成功开发了MEQ系列产品，解决了振动压路机因激振力大、振动频率高、连续作业导致轴承发热、烧伤而提前失效的问题。该系列产品已成功为国内外诸多知名工程机械制造商提供配套服务。

The Construction industry uses a series of highly specialized machines in variety. These machines work under the most rugged and adverse conditions, yet still require stable load capacity and minimum assembly adjustment time while consistent, low friction operation. TWB has successfully developed MEQ series bearing that has solved problems of high temperature, burning and unexpected fatigue caused by large vibrating force, high frequency and continuous operation. This series of products have been successfully supplied for several famous Construction manufacturers.



起重运输机械应用 Hoisting & Conveyer Machinery Applications

起重运输机械的工作特点是间歇性运动，各机械经常处于启动、制动和正反向运转的工作状态；其运行速度虽然不高，但经常承受重载；且长期在粉尘或海水潮湿腐蚀等恶劣环境下连续工作，要求设备必须具有高效、连续、稳定、可靠、易维护和长寿命等特点，相应对配套轴承提出了低速、重载、高可靠性及长寿命的要求。

目前，帝达贝轴承主要应用于齿轮箱、行走机构、起升机构、变幅机构、回转机构等。针对该领域的特殊应用环境，帝达贝还可提供特殊的密封设计、防腐蚀防锈的产品。

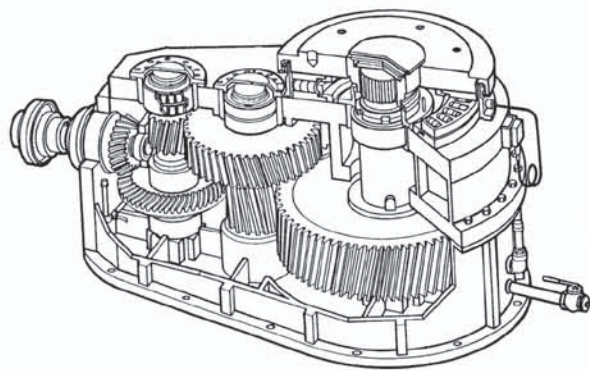
The working feature of hoisting and conveying machinery is operated periodically, i.e. the mechanisms have to start, stop and alternate directions frequently, and although the speeds are not high, but the loads are usually quite heavy. The machines have to work continuously in a dusty, moist, and marine corrosive environment, which requires machines to be efficient, stable, reliable, and well maintainable with long life. As a result, the bearings of the machine are required to be high load with good reliability, low speed with long life.

Currently, TWB bearings mainly applied in gearbox, moving mechanism, hoisting mechanism, lifting mechanism, luffing mechanism, and slewing mechanism, etc. TWB can also provide seal-designed and anticorrosive bearings to meet requirements for special application environment.

动力传动装置应用 Power Transmission Applications

齿轮箱的主要功能是变速，改变扭矩，一般不间断连续运行。要求轴承具有高可靠性、长寿命、低噪音。针对齿轮箱行业的应用特点，帝达贝选用更加纯净的轴承钢，通过提高轴承加工精度等措施开发出多个系列齿轮箱轴承。

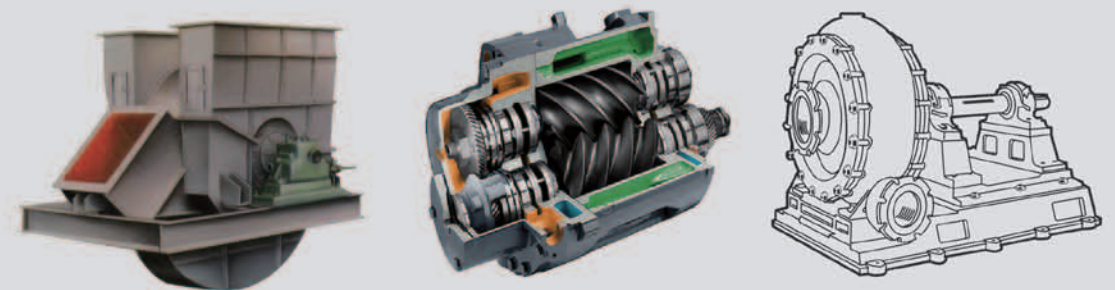
The main feature of Gearbox is speed variation and torque change. Normally it runs continuously and successively, with which requires high reliability, long life and low noise. Considering the application features of gearbox, TWB has developed gearbox bearings in different series, by improving machining precision when selected purer bearing steel.



流体机械应用 Fluid Machinery Applications

风机行业应用特点为连续、高速运行，轴承易发热，同时对轴承噪音有较高的要求。针对风机行业的运行要求，帝达贝采用特殊设计，开发出了风机专用轴承系列，既满足了风机行业对轴承的噪音要求，同时也极大地提高了轴承在风机上的使用寿命。

The application feature of fan bearing is the temperature will be soared higher after continuous operation with high speed, meanwhile the noise must be controlled as well. Aimed at the working requirements, TWB has developed a series of specialized fan bearings, which not only meet the noise requirement, but also prolong the bearing life.





电梯与扶梯应用

Elevator & Escalator Applications

帝达贝是最早进入电梯行业的轴承配套企业之一，针对低振动、低噪音、高可靠性、长寿命的应用要求开发了一系列电梯专用轴承，应用于曳引机主机、导向轮、驱动电机，具备成熟的配套经验。经过多年的良好合作，帝达贝已在全球主要电梯及配件企业建立了良好口碑。

TWB is one of the earliest bearing companies that supplies bearing for elevator industry. Series of specialized bearings for elevators are developed according to the application requirements for low noise and high reliability, long life products. TWB enjoys a good reputation after years of cooperation with key elevators and parts enterprises all over the world.