



太钢不锈
TAIGANG STAINLESS

碳钢产品
CARBON STEEL PRODUCTS

——建设全球最具竞争力的不锈钢企业
Building the most competitive stainless steel producer in the world

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2010年7月印制



太原钢铁(集团)有限公司
Taiyuan Iron and Steel Group Co., Ltd.

TISCO

建设全球最具竞争力的不锈钢企业

Building the most competitive stainless steel producer in the world



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太原钢铁(集团)有限公司(简称太钢)是中国特大型钢铁联合企业和全球最大、工艺技术装备水平最高、品种规格最全的不锈钢企业。经过70余年发展,已具备1000万吨以上钢、铁、材的生产能力,其中不锈钢产能达300万吨。2009年生产不锈钢248万吨,产量世界第一!

太钢是中国第一炉不锈钢、第一炉硅钢、第一张硅钢片的诞生地。拥有铁矿石等钢铁冶炼原料的采掘与加工、钢铁冶炼、钢铁材料压力加工、冶金设备及备件制造等方面先进技术和装备,主要产品有不锈钢、冷轧硅钢片(卷)、热连轧卷板、车轴钢、合金模具钢、军工钢等。产品广泛应用于石油化工、交通运输、建筑装饰、家用电器、医疗食品等行业及神舟系列飞船、嫦娥一号、“东风”系列火箭及核电站等高端领域,进入三峡水利、西气东输、奥运场馆及世博场馆等国家重点工程。2009年在国家认定的575所企业技术中心中,太钢技术中心排名第二,位钢铁行业首位。太钢拥有以不锈钢为核心的745项具有自主知识产权的核心技术,其中100多项达到国际先进水平。

太钢的发展战略是,加快建设全球最具竞争力的不锈钢企业,实现以不锈钢为主的品种、质量、成本、研发、节能、环保、效率、服务等各项指标达到国际一流水平,建设具有国际竞争力的大企业集团。

Taiyuan Iron and Steel (Group) Co. Ltd. (TISCO) is one of the steel giants in China and, the largest stainless producer in the world in term of capacity equipped with the most advanced facilities covering pretty wide product range. After over 70 years development TISCO has the capacity of 10 million tons of steel, which includes 3 million tons of stainless. The year of 2009 saw TISCO become No.1 stainless producer in the world with production of 2.48 million tons of stainless.

In TISCO came out the first heat of stainless steel and first heat of silicon steel as well as the first sheet of silicon in the history of China steel industry. TISCO is well equipped for mining and iron ore refining, iron and steel making, rolling and forging, metallurgical equipment and spare parts manufacturing. TISCO's products cover stainless steel of cold and hot rolling ,cold rolled silicon, hot rolled coil, axle steel, die steel and steel for military purpose etc. TISCO's products are widely used in petrochemical industry, transportation, construction decoration, home appliance, medical and food industry. TISCO's products can be also found in the national key projects such as Shenzhou spaceship, Chang'e-1 Moon Detector,Dongfeng rocket series and nuclear power,Three Gorges ,West-East natural gas transmission, and Olympic game facility as well as Shanghai world expos. In 2009TISCO technology centre ranked No.2 among the 575 state acknowledged enterprise technology institutions, and No.1 among the steel industry. TISCO owns 745 core patents in the field of stainless and over 100 patents are taken as the world class.

TISCO is aiming to become the most competitive stainless producer in the world, and achieve the first class stainless product in terms of product range, quality, cost, R&D, energy saving, environment protection, efficiency and service. For this goal TISCO is trying the first world class level and build itself into the world competitive large group company.



- ◆ 1996年，太钢技术中心成为国家认定的企业技术中心；
- ◆ 2004年，太钢技术中心荣获“国家认定企业技术中心成就奖”；设立“国家博士后科研工作站”；
- ◆ 2008年太钢获“中国钢铁工业产品开发市场开拓奖”、2007年获“中国自主创新行业十强”称号，2006年获“全国质量奖”、2005年获“山西省政府质量奖”；
- ◆ 2009年，太钢技术中心在全国575家国家认定企业技术中心中排名第2位，在冶金行业排第1位，在山西省排第1位；
- ◆ 太钢已拥有745项自主核心技术，其中100多项达到国际先进水平。

- ◆ In 1996, TISCO Technology Center is accredited by the State.
- ◆ In 2004, TISCO Technology Center was granted with Achievement Honorary Award and National Postdoctoral Program started.
- ◆ TISCO was granted with China Steel Product Market Development Award in 2008, China Top 10 of Independent Innovation Industry in 2007, National Quality Prize in 2006 and Shanxi Provincial Quality Prize in 2005.
- ◆ In 2009, TISCO Technology Center ranks No.2 among the 575 state accredited enterprise technology centers, No 1 in metallurgical industry and No.1 in Shanxi Province.
- ◆ Over 100 of 145 proprietary know-hows are internationally advanced.





构建了研发、制造、营销一体化的运行机制及完善的服务体系。
To build up an integrated system of R&D, manufacture, marketing and service.

- ◆ 为客户提供特定的成份、性能、规格设计。
To provide customized products.
- ◆ 为客户在选材和加工工艺方面提供技术支持。
Technical support to customers in material selection and fabrication.
- ◆ 交货准确及时。
Accurate and prompt delivery.
- ◆ 对客户异议，在24小时内答复。
Response to customer's claim within 24 hours.

营销理念 Marketing philosophy

为客户提供更全、更好、更快的解决方案
在长期合作中实现共赢

Win-win result is sought through long-term cooperation with an availability of better and quicker solution package to customers.

客服热线 (Hot line) : 4006531998
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太钢网站 (Web site) : <http://www.tisco.com.cn>

产品应用 Product application



石油/石化/化工 Oil/Petrochemical/Chemical

■ 管线钢

太钢生产的管线钢成功应用于西气东输二线、中亚管线、兰州-郑州-长沙成品油管线等国内重点工程项目，并且出口到亚洲、欧洲、南美等地区。

- ◆ 主要产品: B X42 - X80 S245-S555
- ◆ 交货标准: GB/T14164-2005 及项目协议标准
- ◆ 产品特点: 化学成分及力学性能稳定; 延伸率高, 焊接性能良好。

■ Tube steel

TISCO made tube steel is successfully used in some key projects of China, such as Line 2 of West-to-East Gas Transportation, Middle Asia Tube Transportation, Lanzhou-Zhengzhou-Changsha Finished Oil Tube Transportation; the tube steel is also exported to the regions in Asia, Europe and South America.

- ◆ Main product: B X42 - X80 S245-S555
- ◆ Delivery standard: GB/T14164-2005, and agreed standard
- ◆ Product features: stable chemical compositions and mechanical performances; High elongation value, very fine weld ability



天然气管线
Natural Gas Pipeline

■ 低温容器用06Ni9 (9%Ni) 合金钢板

太钢采用先进的低碳、超纯高合金冶炼装备,配合高精度宽厚板生产线,在中国首家生产出了高品质的9%Ni钢,并批量应用于中石油大连、江苏、广东等特大型LNG储罐项目上。根据国标GB/T221(钢铁产品牌号表示方法),将9%Ni钢命名为06Ni9钢,等同于美标ASTM A553/A553M中的9%Ni钢和欧标EN10028-4中的X7Ni9钢。太钢06Ni9(9%Ni)钢实物质量达到当今工业先进国家同等水平,且钢在-196℃温度条件下横(纵)冲击韧性高于国外同类产品。

■ 06Ni9 (9%Ni) alloy plate for low temperature vessel

TISCO adopted advanced low carbon, super pure high alloy smelting equipments, which cooperated with high-precision wide and thick plate producing line, launched high quality 9%Ni steel for the first time in China, which had successfully applied in the domestic super large LNG storage tanks projects, such as Sino Petrol Dalian, Jiangsu and Guangdong projects. In accordance with China National Standard GB/T221 (the grade indication method of iron and steel product), the 9%Ni steel is nominated as 06Ni9 steel, which is equivalent to 9%Ni in ASTM A553/A553M and X7Ni9 steel in EN10028-4. TISCO 06Ni9 (9%Ni) product has the quality up to the same level of current advanced industrial countries, and has better lateral(longitudinal) impact toughness under the temperature of -196℃ than same kind of product of foreign countries.

■ 油井套管用钢

太钢油井套管用钢产品已供应国内ERW钢管厂家,所制成的钢管供应国内各大油田及出口北美、中东等地。

- ◆ 主要产品: H40 J55 K55 N80
- ◆ 主要规格: 6.0~10.0mm × 1000~1800mm
- ◆ 主要特点: 规格范围广、性能稳定、成材率高。

■ Oil well bushing steel

TISCO oil well bushing-steel product has been supplied to ERW tube plants in China; tube made of the steel has been supplied to the large oil fields in China, and exported to the areas of North America and the Middle East.

- ◆ Main product: H40 J55 K55 N80
- ◆ Main specification: 6.0~10.0mm × 1000~1800mm Main
- ◆ features: wide range of specification, stable performance, high yield of finished product.



大型LNG储罐
Large LNG tanks



天然气管径
Natural Gas Pipeline

■ 低温压力容器板 Low-temperature&pressure vessel plate

太钢低温压力容器板广泛用于石油、化工及低温液体(液态氧、氮、氩、二氧化碳、乙烯、液化天然气等)贮槽等。

- ◆ 主要产品: 16MnDR 09MnNiDR 15MnNiDR 07MnMoVR 07MnMoVDR 12MnNiVR
- ◆ 产品特点: 性能稳定、加工性能优良;强度高、低温冲击韧性好。

TISCO low-temperature&pressure vessel and plate are widely used in the fields like oil, chemical, low temperature liquid(liquid oxygen, nitrogen, argon, carbon dioxide, ethylene and LNG, etc.) storage tanks, etc.

- ◆ Main products: 16MnDR 09MnNiDR 15MnNiDR 07MnMoVR 07MnMoVDR 12MnNiVR
- ◆ Product features: stable and excellent processing performance; high strength, good impact toughness under low temperature.

■ 锅炉、压力容器板

太钢锅炉、容器板广泛应用于工业锅炉、民用锅炉、压力容器、石油、化工、冶金等行业,属特种设备,从它的设计、制造(包括所使用材料的生产)到使用全过程都要接受国家行业行政主管部门的强制管理。

- ◆ 主要产品: Q245R Q345R Q370R 12CrMoVR 12Gr2MoIR 14CrMoR 15CrmoR 18MnMoNbR 13MnNiMoR SA516Gr.70。
- ◆ 产品特点: 化学成分、力学性能稳定;安全性好、寿命长;可为用户提供中板、卷切板产品。

■ Boiler, pressure vessel plate

TISCO boiler, vessel plate is widely used in the fields like industrial&civil boilers, pressure vessel, oil, chemical, and metallurgical. As special equipment, the whole procedures of designing, manufacturing(including the production of applied material) until using, shall accept the compulsory management from the administration authority of related national industries.

- ◆ Main product: Q245R Q345R Q370R 12CrMoVR 12Gr2MoIR 14CrMoR 15CrmoR 18MnMoNbR 13MnNiMoR SA516Gr.70
- ◆ Product features: stable chemical composition and mechanical performance; safety is good, long life; for users in the medium plate, cutting plate products.



低温压力容器
Low-temperature&pressure vessel



压力容器板
Pressure vessel plate

■ 高压气瓶用钢 High pressure gas bottle steel

太钢超高压气瓶钢用于制造高压气瓶，各种气体的存储和移动；在一汽大众、东风汽车、CNG汽车得到广泛应用。用太钢的超高压气瓶钢生产的气瓶取得了包括美国DOT、德国TUV、加拿大TC等二十多个国家的国际产品认证，并通过美国、德国、法国、挪威、美国、日本、中国的船级社认证，可直接出口世界五大洲四十多个国家和地区；获得中国钢铁协会“金杯奖”和国家“新产品奖”。

TISCO ultra-high pressure gas bottle steel is applied for the making of ultra-high gas bottle, the storage and transportation of various gases, which is widely adopted by China First Automobile-Volkswagen, Dongfeng Automobile, and CNG vehicles. The gas bottle made of TISCO ultra-high pressure gas bottle steel has got the international product approvals of over twenty countries including American DOT, German TUV, Canadian TC, etc., and it has passed the certification of shipbuilding classification societies of UK, Germany, France, Norway, US, Japan and China. The steel can be exported directly to more than forty countries and regions, and is awarded "Gold Cup" by China Iron&Steel Association, and national "New Product Premium".

主要产品:

◆ 30CrMoA 34CrMo4m1 (m2) (规格 200² - 320²)

交货标准:

◆ Q/TB3041-2005; Q/TX3229-2006

产品特点:

◆ 高强度、高韧性；抗疲劳性和耐低温冲击性好。

Main products:

◆ 30CrMoA 34CrMo4m1(m2) (specification 200² - 320²)

Delivery standard:

◆ Q/TB3041-2005; Q/TX3229-2006

Product features:

◆ High strength, high toughness; Fatigue-resistant, low temperature impact-resistant performance



高压气瓶
High gas bottle



■ 油井用钢 Oil well steel

太钢油井用钢用于制造石油钻采工具中的加重钻铤和无磁钻铤。广泛用于中石油、中海油石油钻探行业，并通过了美国API认证，出口到欧美国家。

主要产品:

◆ AISI4145H-A(加重钻铤) TNMS501(无磁钻铤) (规格 φ 230 - φ 290)

TISCO steel for oil well is applied for the making of oil drilling tools such as heavy-duty drill collars and non-magnetic drill collars. The steel, which passes the certification of U.S. API and is exported to European and American countries, is widely applied in the oil drilling industry of Sino Petrol, and China Ocean Oil.

Main products:

◆ AISI4145H-A (heavy-duty drill collars)

交货标准:

◆ Q/太新072-2008; Q/太新091-2008

产品特点:

◆ 强度高、耐冲击、韧性好；超低磁导率、耐腐蚀性强

TNMS501(non-magnetic drill collars) (specification φ 230 - φ 290)

Delivery standard:

◆ Q/Taixin 072-2008; Q/Taixin 091-2008

Product features:

◆ High strength, impact-resistant, good toughness; super-low magnetic conductivity, good corrosion-resistant performances



油井用钢
Oil well steel



电力 Power

■ 火电 水电

太钢电站锅炉用钢主要应用于火电、水电设备，电站锅炉用一般耐热结构件、支撑件、锅炉辅机结构件、风力发电塔筒等。与上电、东电、哈电三大动力集团共同开发电站用钢新产品，替代进口，实现产品100%国产化。

主要产品：

- ◆ 12Cr1MoV 15CrMo 1Cr6Si2Mo CORTEN-B SA387系列 SA204B(C) 10Cr9Mo1VNbN(T91) SA387Gr12CL2等。

■ Thermal power, hydropower

TISCO hydroelectric station boiler steel is mainly applied at the fields like thermal power, hydropower equipment, the common heat resistant structural component of hydroelectric station boiler, supporting component, structural component of boiler accessory machinery, wind power generating tower shaft, etc. TISCO newly developed power station steel products jointly with three main power groups of Shanghai Electric, Northeast Electric and Harbin Electric have replaced the imported products, and realized the products 100% locally made.

Main product:

- ◆ 12Cr1MoV 15CrMo 1Cr6Si2Mo CORTEN-B SA387 series SA204B(C) 10Cr9Mo1VNbN(T91) SA387Gr12CL2 etc.

Product features:

- ◆ excellent high temperature resistant, oxidizing resistant, high temperature steam corrosion resistant performance;
- ◆ excellent weld ability, cold and hot processing performance;
- ◆ excellent lateral and longitudinal tension performance;
- ◆ no inclusion, no crack, with similar creep and endurance limit
- ◆ high roughness and strength

产品特点：

- ◆ 良好的耐高温氧化、耐高温蒸汽腐蚀性能；
- ◆ 良好的焊接和冷、热加工性能；
- ◆ 产品横向、纵向拉伸性能优良；
- ◆ 无夹杂、无裂纹、具有蠕变极限与持久强度数值相近；
- ◆ 高韧性、高强度。

■ 核电

太钢碳钢核电工程用钢主要应用于岭澳二期、阳江、宁德、福清等大型核电站工程用一般耐热结构件、支撑件等；并与上电、东电、哈电三大动力集团积极开发核电用钢新产品，替代进口，实现核电用钢产品100%国产化。

主要产品：

- ◆ P265GH、P295GH等。

产品特点：

- ◆ 良好的耐高温氧化、良好的焊接和冷、热加工性能；
- ◆ 产品横向、纵向拉伸性能优良；
- ◆ 无夹杂、无裂纹、具有蠕变极限与持久强度数值相近的特点；
- ◆ 高韧性、高强度性能的特点。



岭澳二期核电站
Ling'ao Phase II nuclear power station



阳江核电站
Yangjiang nuclear power station



宁德核电站
Ningde nuclear power station

■ Nuclear power

TISCO nuclear power engineering carbon steel is mainly applied in common heat resistant structure component, support component, etc. in large-scale nuclear power station projects as Ling'ao Phase II, Yangjiang, Ningde and Fuqing, etc.; TISCO newly developed nuclear power steel products jointly with three main power groups of Shanghai Electric, Northeast Electric and Harbin Electric have replaced the imported products, and realized nuclear power steel products 100% locally made.

Main product:

- ◆ P265GH、P295GH etc.

Product features:

- ◆ excellent high temperature resistant, oxidizing resistant performance;
- ◆ excellent weld ability, cold and hot processing performance;
- ◆ excellent lateral and longitudinal tension performance;
- ◆ no inclusion, no crack, with similar creep and endurance limit
- ◆ high roughness and strength



三峡水电站
Sanxia Hydropower Station



火电用钢
Thermal power steel



福清核电站
Fuqing nuclear power station



核电用结构钢
Structural steel in nuclear power station

■ 风力发电 Wind power generation

太钢碳钢产品广泛用于风力发电行业，主要用于风力发电设备的塔架及部分核心部件。

主要产品：

- ◆ Q345E (Z15、Z25) S275NL (Z15、Z25)

产品特点：

- ◆ 性能稳定、加工性能优良；
- ◆ 强度高、低温冲击韧性好。

TISCO carbon steel products are widely used in wind power generating industry, and mainly used in pylon of power generating equipments and part of core components.

Main products:

- ◆ Q345E (Z15、Z25) S275NL (Z15、Z25)

Product features:

- ◆ stable performance, excellent processing performance;
- ◆ high strength, and good impact toughness under low temperature



风力发电
Wind power generation



整体（机仓）总装中
Integrated (engine chamber) assembling



球铁轮毂
SG wheel hub

■ 高压锅炉管坯 High-pressure boiler tube billet

太钢高压锅炉管坯还用于制造高压锅炉管，电站锅炉内受热面部件，电站锅炉的水冷壁、省煤器、过热器和再热器。太钢的高压锅炉管坯T91和T92制成的无缝钢管，应用于哈尔滨锅炉厂、上海锅炉厂和东方锅炉厂等国内知名企业的超（超）临界机组上。

主要产品：

- ◆ T91 T92 (规格 $\Phi 60\text{mm}-\Phi 110\text{mm} \times 6000\text{mm}-8200\text{mm}$)

交货标准：

- ◆ Q/太新017-2010; Q/太新026-2007

产品特点：

- ◆ 车光交货，具有抗蠕变、抗疲劳，耐高温氧化与腐蚀等性能



电站锅炉
Power station boiler



压力容器
Pressure vessel

TISCO high pressure boiler blanks are used in the making of high pressure boiler tubes, components inside power station boilers whose surface exposed to heat radiation, the water cooling wall of power station boilers, coal-saving unit, superheaters and reheaters. The seamless steel pipes made of high pressure boiler pipe blanks of T91 and T92 have been applied in the super (super) critical units of well-known enterprises, such as Harbin Boiler Plant, Shanghai Boiler Plant and Dongfang Boiler Plant.

Main products:

- ◆ T91 T92 (specification $\Phi 60\text{mm}-\Phi 110\text{mm} \times 6000\text{mm}-8200\text{mm}$)

Delivery standard:

- ◆ Q/Taixin 017-2010; Q/Taixin 026-2007

Product features:

- ◆ Bright turned delivery, with creep-resistant, fatigue-resistant, heat&oxidation-resistant, corrosion-resistant performances

■ 发电设备 Power generating equipment

太钢冷轧硅钢产品主要应用于发电设备行业发电机制造，在国内“三大动力”集团东电、哈电、上电得到广泛的应用。

火电：

太钢50TW250-310产品广泛应用于“三大动力”60万KW、30万KW汽轮发电机组；正在研发100万KW汽轮发电机组用厚涂层冷硅产品。

水电：

太钢50TW270产品成功应用于哈电26.25万KW水轮发电机项目，目前，哈电正在试用50TW250应用于30KW抽水蓄能发电机组，是国产硅钢在水电项目的最好业绩。

核电：

已开发100万KW核电用50TW310厚涂层产品（杜邦1151E）。

风电：

广泛应用于风力发电机知名企业永济电机、兰州电机、湘潭电机等。

主要产品：

- 50TW250-400

产品特点：

- 钢质纯净、磁性能稳定；
- 板型良好、厚度均匀，同板差小，叠装系数高；
- 涂层种类齐全。

The cold-rolled silicon steel products are mainly used for the manufacture of power generator in power generating equipment industry, especially widely used in "three Main Power Group" in home such as Northeast Electric, Harbin Electric and Shanghai Electric.

Thermal power:

TISCO products of 50TW250-310 are widely used for 600 KW, 300 KW steam turbine generator units in "three Main Power Group"; cold-rolled silicon steel products with thick coating for one million KW turbine generator units are under developing.

Hydro power:

TISCO products of 50TW270 have been used in the project of 262.5 thousand KW water turbine power generator units successfully. So far, Harbin Electric is testing 50TW250 for 30 KW power generator unit with water pumping energy accumulation, which reaches the best achievements among the application of home-made silicon steel on the projects of hydro power.

Nuclear power:

products with thick coating (Dupont 1151E) has been developed for one million KW nuclear power.

Wind power:

being widely used in well-known wind power enterprises——Yongji Electric Motor, Lanzhou Electric Motor, Xiangtan Electric Motor, etc.

Main products:

- 50TW250-400

Products features:

- high steel purity, stable magnetic property;
- good profile, uniform thickness, low thickness tolerance, high lamination factor;
- wide category of coating.



■ EI片 EI chip

广泛应用于空调、VCD、音响等家用电器及程控交换机、UPS电源、各种机械电子、邮电通讯等行业的各种电源仪器、仪表、设备装置。

主要产品:

Being widely used in domestic appliances such as air-conditioner, VCD and acoustics devices, etc., and all kinds of power apparatus, instruments and equipments in the fields of program-controlled commutator, UPS, various mechanical and electronic, as well as post and communication industries.



■ 电动机 Electromotor

产品可覆盖全部电动机行业，广泛应用于上海电机、沈阳电机、华力电机等知名企业。

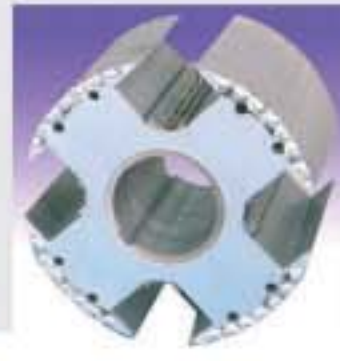
主要产品:

◆ 50TW250 - 1000

Products can be applied in all electromotor industry, and widely used in many famous enterprises such as Shanghai Electric Motor, Shenyang Electric Motor and Huali Electric Motor.

Main products:

◆ 50TW250 - 1000



■ 电焊机、电动工具 Electric welder, electric facility

太钢产品在电焊机及电动工具行业得到广泛应用，目前应用知名企业有：凯尔达电焊机有限公司、金鼎电动工具有限公司、永康佳美电动工具有限公司等。

TISCO products have been widely used in welding machines and electric facility industry. So far, the famous enterprises which are the customers of TISCO include Karda Welding Machine Ltd, Jinding Electric Facilities Ltd, and Yongkangjiamei Electric Facilities Ltd.



■ 仪器、仪表 Instrument and meter

太钢无取向硅钢产品广泛应用于仪器仪表行业，典型用户有正泰集团、德力西集团、华立仪表、施耐德电气等知名企业。

Cold rolled non-oriented silicon steel is widely used in instrument and meter industry, the representative customers including Zhengtai Group, Delixi Group, Huali Instrument and Schneider Electric.



铁路 Railway steel

■ 车厢用钢 Railway wagon steel

太钢耐候钢主要应用于制造铁路货运车辆包括C70敞车、P70棚车等。

主要产品:

- ◆ Q450NQR1 09CuPCrNi-A 09CuPTiRe-A

产品特点:

- ◆ 规格齐全, 耐腐蚀性好;
- ◆ 表面质量好, 板形平整、尺寸公差控制精度高;
- ◆ 性能稳定、冷成型性好及良好的焊接性。



P70棚车
P70 canopy wagon

TISCO climate-resistant steel is mainly used in railway freight wagon making, including C70 open wagon and P70 canopy wagon, etc.

Main product:

- ◆ Q450NQR1 09CuPCrNi-A 09CuPTiRe-A

Product features:

- ◆ full range of specifications and good corrosion resistant performance;
- ◆ good surface quality, leveled and regular flatness, high precision control in tolerance;
- ◆ stable performance, good cold molding and weld ability.



C70敞车
C70 open wagon

■ 车轴钢 Axle steel

太钢轮轴坯制作的车轴钢及钢轮钢出口到美洲、澳洲、及欧洲等地, 在国内铁路客用、货用、动车组及城轨列车中广泛应用, 特别是在大秦线运煤专线牵引机车“和谐号”上使用, 填补了国内空白, 国内市场占有率高达90%。

主要产品:

- ◆ LZ系列 JZ系列(规格2202-3502)

TISCO axle steel and wheel steel made of axle and wheel steel blanks are exported to the regions of America, Australia and Europe, which are widely used in the fields of domestic railway passenger cars, freight wagons, express train units and city trams. Especially the application on the Harmony, the traction engine running on Daqin Coal Transportation Special Line, which fills up domestic market blank, and accounts 90% of domestic market.

Main products:

■ 钢轮钢 Wheel steel

主要牌号:

- ◆ CL60K; ER7-ER9(规格 $\phi 422$ 、 $\phi 490$)

交货标准:

- ◆ Q/TB3040-2005; Q/TX3089-2004

产品特点:

- ◆ 机械、锻造性能优。

Main products:

- ◆ CL60K; ER7-ER9(specification $\phi 422$ 、 $\phi 490$)

Delivery standard:

- ◆ Q/TB3040-2005; Q/TX3089-2004

Product features:

- ◆ Super mechanical and forging performances

交货标准:

- ◆ TB/T2945-1999; JCZP-01-1998; GB5068-1999

产品特点:

- ◆ 气体含量极低, 钢质纯净; 机械、锻造性能优; 产品表面良好, 利用率高。

- ◆ LZ series JZ series (specification: 2202-3502)

Delivery standard:

- ◆ TB/T2945-1999; JCZP-01-1998; GB5068-1999

Product features:

- ◆ Extremely low gas content, very pure steel quality; Super mechanical and forging performances; Good surface quality, high availability



汽车 Automobile steel

太钢可以生产高强度大梁钢、轴管钢、轮辐钢、桥壳钢等成系列的汽车用热轧钢板。生产的汽车用热轧钢板已经在一汽集团、东风公司、中国重汽、陕汽等国内重点汽车生产厂家及中集、三河新宏昌等改装车生产厂广泛应用，是国内汽车用钢最主要的生产厂家。

主要产品:

◆ T510L T610L T700L T750L T700 TH800 440QZ 480QZ 700QZ T330CL T400CL T420CL TQK510-590 FAS400-500L-Z

产品特点:

- ◆ 良好的韧性、耐疲劳性、冲压成型性和焊接性能;
- ◆ 冲压合格率高、回弹小、性能波动小、各向异性小等。

TISCO can produce hot rolled plate for automobile series such as high strength beam steel, axle tube steel, spoke steel, bridge case steel etc. The hot rolled automotive plate has been widely used by domestic key automobile producers, such as First Automobile Group Company Limited of China, Dongfeng Automobile Company, Heavy Automobile Company Limited of China, Shaanxi Auto etc. and refitting plant of heavy trucks, such as SUNHUNK HEAVY INDUSTRIES GROUP, China Container CO., Ltd., etc. . TISCO is the uppermost domestic producer of automotive steel.

Main products:

◆ T510L T610L T700L T750L T700 TH800 440QZ 480QZ 700QZ T330CL T400CL T420CL TQK510-590 FAS400-500L-Z

Product features:

- ◆ good toughness, fatigue resistance, stamping and weld ability;
- ◆ high percent of pass in stamping, low spring-back, low quality fluctuation of performance and



汽车用钢
Automobile steel

船舶 Shipbuilding steel



造船行业
Shipbuilding steel

太钢船体结构用钢板主要用于制造散货船、集装箱船、油轮等各种类型的船体结构和海洋石油平台、船坞以及码头设施等。目前已取得中国、英国、法国、美国、德国等五国船级社的认证。

主要产品:

- ◆ 一般强度钢分为: A、B、D、E四个质量等级;
- ◆ 高强度钢分为二个强度级别, 三个质量等级: A32、D32、E32、A36、D36、E36

产品特点:

- ◆ 钢质纯净, 焊接性能好;
- ◆ 出厂平板平直度和残余应力好, 质量达到或优于中板。

TISCO shipbuilding steel is mainly used to build bulk cargo ship, container ship, oil tanker, other types of hull structure and ocean petroleum platform, boatyard and dock facilities. At present, TISCO has been certificated by ship classification societies of China, America, U.K, France and Germany.

Main products:

- ◆ The common strength steel is divided into four classes: A, B, D, E;
- ◆ High strength steel is divided into two strength classes and three quality classes: A32, D32, E32, A36, D36, E36

Product features:

- ◆ pure steel quality, good weld ability;
- ◆ good flatness and residual stress from ex-works plates, the quality equals to or superior than medium plate.

集装箱 Container steel

太钢集装箱板已经广泛应用于中集、胜狮、新华昌、马士基、上海寰宇等国内集装箱知名企业。

主要产品:

◆ SPA-H SM490YA SM490A T550W T700W

产品特点:

- ◆ 规格齐全, 耐蚀性良好;
- ◆ 表面质量好, 板形平整、尺寸公差控制精度高;
- ◆ 性能稳定、冷成型性好及良好的焊接性。

TISCO container plate has been widely used by well-known domestic container enterprises such as China Container Co., Ltd., Shengshi, Xinhuachang, Mashiji and Shanghai Huanyu etc.

Main products:

◆ SPA-H SM490YA SM490A T550W T700W

Product features:

- ◆ full range of specifications and good resistance to corrosion;
- ◆ good surface quality and profile, high precision control in tolerance;
- ◆ stable performance, good cold molding and weld ability.



桥梁 Bridge steel

太钢桥梁钢的品种、规格可基本满足公路桥梁、铁路桥梁、跨海大桥及重钢结构等领域的需求, 已成功应用于国内部分桥梁及港口机械。

主要产品:

◆ Q345QC (D, E) Q370QE等

产品特点:

- ◆ 高强度、高韧性、优异的焊接性、良好的耐候性能等。



南京大胜关长江大桥
Nanjing Dashengguan Changjiang Bridge

芜湖长江大桥
Wuhu Changjiang Bridge



TISCO's category and specifications of bridge steel can basically fulfill the requirements in the areas of road bridge, railroad bridge, sea flyover bridge and heavy steel structure, etc., which are applied in some of domestic bridges and port machinery successfully.

Main products:

◆ Q345QC (D, E) Q370QE, etc.

Product features:

- ◆ High strength, high toughness, excellent weld ability and good climate resistant performance, etc.

家电 Domestic appliances

太钢冷轧硅钢产品广泛应用于家电行业，主要包括制冷压缩机、微波炉电机等，其中制冷压缩机包括冰箱压缩机、空调压缩机、冷柜电机，目前已广泛用于海尔、科龙、美的、格力、新飞、长虹、伊莱克斯等国内外知名企业，同时这些企业所使用的压缩机电机供应厂家如北京恩布拉科、加西贝拉、黄石东贝、天津扎努西、华意压缩、西安冷机等也已成为太钢产品的稳定用户。

TISCO cold-rolled silicon steel products are widely used in domestic appliance industry, mainly including refrigerator compressor and microwave oven motor, thereinto, refrigeration compressor includes fridge compressor, air-conditioner compressor and refrigeration cabinet motor which have been used in many enterprises well-known home and abroad such as Hair, Kelon, Meide, Gree, Xinfel, Changhong and Elexos. And compressors motor suppliers of above-mentioned enterprises, including Beijing EMBRACO, Jiaxibella, Huangshi Dongbei, Tianjin Compressor, Xian Refrigerators, are also stable customers of TISCO.



冷轧用钢 Cold rolled steel

太钢可根据国标、日标、欧标、美标、德标等标准生产CQ、DQ、DDQ、EDDQ、SEDDQ等各种冲压级别的冷轧用热卷，产品广泛应用于冷轧行业及热轧酸洗板卷的冲压件的制作。

主要产品：

◆ 08Al Q195LD SPHC SPHD SPHE SAE1006 SAE1008 MR IF等。

产品特点：

- ◆ 产品具有杂质含量低，成分均匀，表面质量优异；
- ◆ 硬度低易于轧制，宽度范围便于调整配尺，节约材料。



In accordance with GB, Japanese standard, EN, ASTM and DIN, TISCO can produce hot rolled coils with diversified stamping grades for cold rolling, such as CQ, DQ, DDQ, EDDQ, SEDDQ, etc. The products are widely used in cold rolling industry and fabrication of pressing parts of hot rolled pickling plates and coils.

Main products:

◆ 08Al Q195LD SPHC SPHD SPHE SAE1006 SAE1008 MR IF etc.

Product features:

- ◆ low content of impurities, uniform component, and good surface quality;
- ◆ low hardness for rolling, width range proper for adjustment and sizing, material saving.

模具钢 Die Steel

太钢生产模具钢历史悠久，通过精心筛选各类原料，秉承传统的制钢工艺，不断创新，在国内外市场获得极高的评价。成功进入海尔集团、龙记集团、GE公司等国内外重点企业。可生产高级镜面塑胶模具钢、高等级冷轧辊等。

TISCO has a long history of die steel production. By selecting various kind of raw materials, taking the traditional steel making processes and innovation-led, the steel has got very high appraisal in both domestic and foreign markets. The steel has been applied by domestic and foreign key enterprises such as the Haier Group, Longji Group, GE, etc. The steel can be used to produce high-grade mirror surface plastic die steel, cold rolling rollers, etc.

■ 轧制模具扁钢 Rolled die flat steel

用于制造特大型、大型的精密、长寿命的塑料模具，镜面抛光度要求高的塑料模具，如汽车尾灯、镜壳、前挡板、摄像机、家用电器、摄像机、电话机、化妆品容器、透明罩类、透明胶片等。

主要产品：

◆ S45C-S55C P20 (H) 718 (H) Rh13 RS136L NAK80等。

主要规格：

◆ 方坯：150×150-550×550mm，扁钢50-200×300-1000mm。

产品特点：

◆ 钢质纯净，成分稳定，力学性能好；淬透性高，硬度均匀，抛光性能好；板型平直，公差控制稳定。

This steel is applied to produce super large and large precise and long life plastic dies, high-grade polished mirror-surface plastic dies, such as automobile taillight, mirror shell, front baffle, video recorder, home electric appliances, telephone, cosmetic containers, transparent hoods and films.

Main products:

◆ S45C-S55C P20 (H) 718 (H) Rh13 RS136L NAK80 etc.

Main specifications:

◆ bloom: 150×150-550×550mm, flat steel 50-200×300-1000mm

Product features:

◆ Stable chemical compositions, good mechanical performances; high quenching, uniform hardness, good polishing performances; good profile, stable tolerance control.

■ 模具钢锻材 Die steel forging product

用于金属热锻模，铝挤压模和芯棒、压铸模、森吉米尔轧机工作辊、支撑辊、托辊等。

主要产品：

◆ 4Cr5MoSiV1 R4Cr5Mo5V1 5CrMnMo 5CrNiMo RCr12Mo1V1 (R)X63CrMoV51等。

主要规格：

◆ 圆钢φ90-φ400mm，方钢90-400mm。

产品特点：

- ◆ 热强度、硬度、韧性、耐磨性好；
- ◆ 强的耐疲劳性，组织均匀；
- ◆ 良好的全淬硬性及淬后尺寸稳定性。

The steel is applied to produce metal hot forging mould, aluminum extrusion mould, core rod, pressure casting die, working roller, supporting roller, etc. of Sendzmir mill.

Main products:

◆ 4Cr5MoSiV1 R4Cr5Mo5V1 5CrMnMo 5CrNiMo RCr12Mo1V1 (R)X63CrMoV51 etc.

Main specification:

◆ round steel φ90-φ400mm, square steel 90-400mm.

Product features:

- ◆ Good heat strength, hardness, toughness, and abrasive-resistant performance;
- ◆ Fatigue-resistant, uniform structure;
- ◆ Good performances of thoroughly harden quenching and dimension stability after quenching.



高强度工程机械用钢 High strength engineering machinery steel

太钢高强度工程机械用钢主要应用于工程机械、煤矿机械、电力通讯塔架等领域，并已成功运用于三一重工、徐工、中联重科等企业，批量出口到欧洲市场，产品性能优良，应用前景广阔。

主要产品：

◆ TQ460MC-TQ960MC T520JJ SN400B SN490B T750GJ

S355MC-S700MC QSTE380TM-QSTE550TM Q460C-Q690D ASTMGr50-65

产品特点：

- ◆ 成份均匀稳定；
- ◆ 高强度、高韧性、高耐磨性能；
- ◆ 良好的焊接性能和超强的抗震性能。

TISCO high strength construction steel and engineering machinery steel are mainly used in the fields of engineering machinery, coal mine machinery, large industrial workshop, skyscrapers, Olympiad gymnasiums and stadiums, bank ATM, etc. The steel has excellent performance and brilliant market.

Main products:

◆ TQ460MC-TQ960MC T520JJ SN400B SN490B T750GT S355MC-S700MC

QSTE380TM-QSTE550TM Q460C-Q690D ASTMGr50-65

Product features:

- ◆ uniform and stable chemical components;
- ◆ high strength, high toughness and high abrasion resistant performance;
- ◆ good weld ability and super-strong seismic-resistant performance.



混凝土搅拌罐车
Concrete stirring tank car



汽车吊
Truck crane



奥运鸟巢
Olympic bird's nest



工程机械
Engineering machinery



煤矿机械
Coal mine machinery



通讯塔架
Communication tower

纯铁 Pure iron

太钢是我国纯铁科研生产的主要基地，也是我国最早研制和生产纯铁的企业。从1955年开始到现在，经过五十多年的发展，已经形成一整套独特的生产工艺和多用途、多品种、多规格的纯铁系列产品。太钢纯铁生产经验丰富、设备精良、技术力量雄厚、检测手段完善，生产工艺路线先进。

太钢纯铁实物质量达到国际先进水平，曾先后多次获得国家金奖，在用户中享有很高知名度，广泛应用于国防、军工（如卫星发射、神州飞船）、高科技（北京正负电子对撞机、高能粒子加速器、核磁共振机、高分辨率电子显微镜、计算机制造）、民用（高性能磁性材料行业、电磁铁、继电器、离合器、磁选机、磁屏蔽）等行业，市场占有率始终保持国内第一。

TISCO is the main base for scientific study and production of pure iron; it is also the earliest enterprise which developed and produced pure iron. Since 1955, after more than fifty years of development, TISCO has developed one full set of unique producing process and pure iron series products with multiple purposes, multiple types and multiple specifications. Now, TISCO owns abundant experiences, excellent equipments, powerful technology, sophisticated testing methods and advanced process line on pure iron producing field.

The quality of TISCO real pure iron can reach international advanced level. The products won national golden award for many times, and are well-known among customers. It has been widely applied in national defence, military industry (e.g. satellite launch, Shenzhou spaceship), high science and technology (Beijing electron-positron colliding machine, high energy particle accelerator, NMR machine, high resolution electronic microscope and computer manufacture), civil industry (high performance magnetic material industry, electric magnet, relay, clutch, magnetic separators and magnetic screen), holding a lion's share in domestic market constantly.



主要产品:

◆ DT4, DT4A DT4 E DT4 C Yt01 Yt0 Yt3 Dt8 DT8A Dt9

产品规格:

◆ 220mm×1000mm上×1550 mm上板坯, φ 6.5-20mm盘圆, φ 60-100mm×3000-6000mm圆钢, 6-120mm×1000mm上×2000mm上热轧中厚板, 0.5-2.0mm×900-1200mm×C冷轧卷板, 1.5-6.0mm×1000mm上×1300mm上冷轧薄板

Main products:

◆ Dt4 DT4A DT4 E DT4 C Yt01 Yt0 Yt3 Dt8 DT8A Dt9

Specification:

◆ Slab 220mm×1000mm and above×1550 mm and above, coiled bar φ 6.5-20mm, round steel φ 60-100mm×3000-6000mm, hot rolled medium-and-heavy plate 6-120mm×1000mm and above×2000mm and above, cold-rolled plate (coil) 0.5-2.0mm×900-1200mm×C, cold-rolled sheet 1.5-6.0mm×1000mm and above×1300mm and above



非晶中频变压器铁芯
Iron core for amorphous intermediate-frequency transformer



继电器
Relay



磁性材料 Magnetic material



电子对撞机
Electron collision machine



核磁共振仪
NMR machine

TISCO

合作伙伴 Partners





太钢产品及贸易全球分布图

TISCO products distribution and marketing network in the world



