



产品说明
Product Description

型材产品 SECTION PRODUCTS



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股票代码 (Stock Code) :000825

2014年9月印制

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

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企业使命

用不锈钢智慧创造卓越品质

Enterprise Mission

To pursue outstanding quality with innovative and stainless wisdom

战略目标

建设全球最具竞争力的不锈钢企业

Strategic Target

Building TISCO into the Most Competitive stainless steel Producer in the World

核心价值观

以人为本 用户至上 质量兴企 全面开放 不断创新

Core Values

Relying the People, Putting Customers' Needs First, Rejuvenating Enterprise through Quality, Fully Opening, Keeping Innovative

营销理念

为用户提供更全、更好、更快的解决方案
在长期合作中实现共赢

Management Concept

Providing Customer with Better and Faster Solution Package
to Realize Long-Term Win-Win Cooperation

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



简介 >>>

Brief

太原钢铁（集团）有限公司（简称太钢，英文简称TISCO）始建于1934年，地处汾河之滨龙城太原。

太钢是集铁矿山采掘和钢铁生产、加工、配送、贸易为一体的特大型钢铁联合企业，也是目前全球最大、工艺技术装备水平最高、品种规格最全的不锈钢企业，具备年产1000万吨钢（其中400万吨不锈钢）的能力，营业收入连续七年超过1000亿元人民币。

太钢致力于不锈钢、特殊钢和高等级碳素钢的研究开发和生产加工，拥有雄厚的研发实力和可靠的质量保障能力。太钢技术中心在全国887家国家认定企业技术中心中排名第四。目前已形成了以不锈钢、冷轧硅钢、高强韧系列钢材为主的高效节能长寿型产品集群，重点产品批量进入石油、化工、造船、集装箱、铁路、汽车、城市轻轨、大型电站、“神舟”系列飞船等重点领域和新兴行业。铁路行业用钢、双相钢、耐热钢、车轴钢、9%Ni钢等20多个品种国内市场占有率第一。

太钢坚持绿色发展，以科技创新和技术进步为支撑，大力倡导节约、环保、文明、低碳的生产和生活方式，坚持走新型工业化道路，走可持续发展之路，先后成功实施了干熄焦、煤调湿、焦炉煤气脱硫制酸、烧结烟气脱硫脱硝制酸、高炉煤气联合循环发电、高炉煤气余压发电、饱和蒸汽发电、钢渣处理、膜法工业用水处理、城市生活污水处理、酸再生、冶金除尘灰资源化、钢渣肥料制造等节能环保项目，万元产值能耗、吨钢综合能耗、新水消耗、烟粉尘排放、二氧化硫排放、化学需氧量排放等主要指标居行业领先水平。

太钢先后荣获“全国质量奖”、“全国最具社会责任感企业”、“全国模范劳动关系和谐企业”、“全国企业文化建设先进单位”、“全国绿化模范单位”、“山西省模范企业”、“山西省五一劳动奖状”、“全国质量工作先进单位”、“全国法制宣传教育先进单位”、“山西省信用示范企业”、山西省“红十字奉献之星”和“博爱一日捐银奖”等荣誉。

“十二五”期间，太钢将以科学发展为主题，以转型发展为主线，以科技创新为动力，以能力建设为核心，以队伍建设为保障，全面推进“三个转变”，坚持做强主业、延伸发展、多元发展、绿色发展、和谐发展，建设全球最具竞争力的不锈钢企业，到2015年，营业收入达到2000亿元以上，成为国内一流、世界著名的大型企业集团。



Taiyuan Iron and Steel (Group) Co. Ltd. (TISCO), established in 1934, is situated in Taiyuan by the Fen River.

TISCO is a giant iron and steel complex which integrates mining, iron and steel production, processing, delivery and trade; is also the largest stainless steel producer in the world with the most advanced technologies and equipment and full range of products and specifications. Its annual production capacity is more than 10 million tons of steel, among it, 4 million ton of stainless steel. Its annual sales revenue is more than 100 billion yuan in the last seven years.

TISCO focuses on the research, development, production and processing of stainless steel, special steel and high grade of carbon steel; has strong R&D strength and reliable quality assurance ability. TISCO Technology Center ranks the fourth in the 887 enterprise technology centers ratified by the State. TISCO produces a series of high efficiency, energy saving and long service life product clusters, such as stainless steel, cold rolled silicon steel, high strength and toughness steels. Its key products have been widely applied in the key and new industries of petroleum, chemical, shipbuilding, container, railway, automobile, city light rail, large scale power station, “Shenzhou” series spacecrafts etc. 20 steels, such as steels for railway industry, duplex stainless steel, heat resistance steel, axle steel and 9%Ni steel, keep the largest market share in China.

By insisting on green development, supported by technical innovation and technological progress, and adhering to the road of new industrialization and sustainable development, TISCO implemented a number of energy saving and environmental protection projects, such as coke dry quenching, coal moisture control, coke oven gas desulphurization and sulfuric acid manufacturing, sintering flue gas desulphurization, denitration and acid making, CAPP, TRT, saturated steam power generation, slag treatment, membrane treatment of industrial water, urban domestic sewage treatment, acid regeneration, reutilization of metallurgical dust, producing fertilizer with slag and so on. The main index of energy consumption of 10000 yuan output value, the comprehensive energy consumption, make-up water consumption, flue gas and dust emission, sulfur dioxide emission and COD emission per ton of steel take the lead in steel industry.

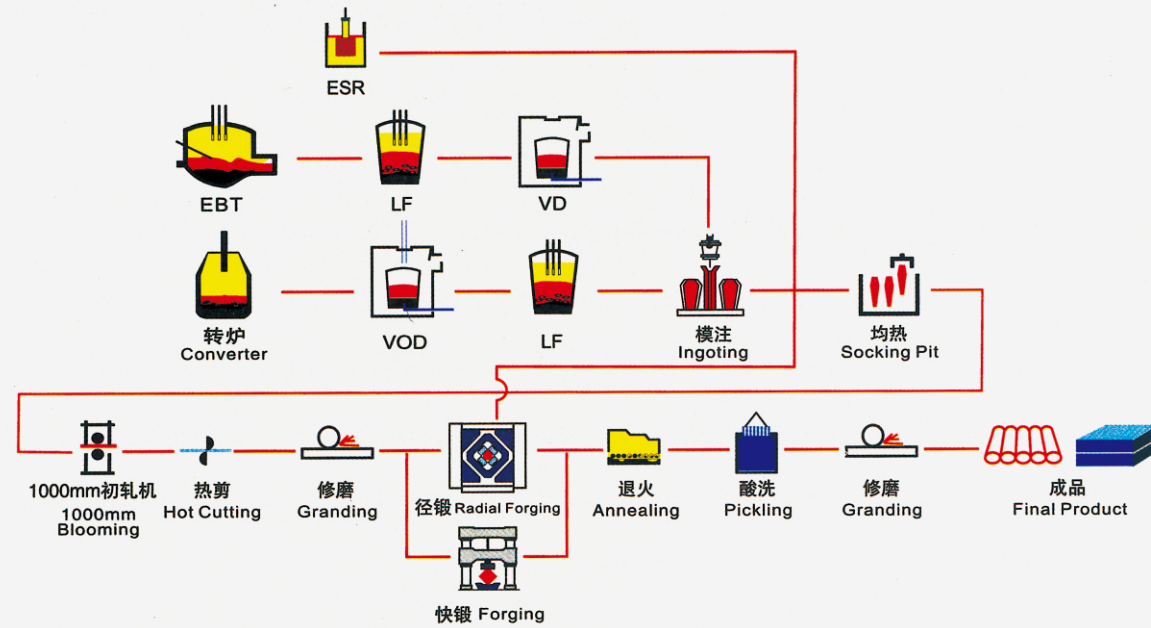
TISCO has successively won the following award and title: China Quality Award, China's Most Socially Responsible Enterprise Award, China's Harmonious Labor Relations Model Enterprise, China Corporate Culture Development Advanced Unit, National Afforestation Model unit, Shanxi Model Enterprise, Shanxi May First Labor Award, China Quality Advanced Unit, Shanxi Credit Model Enterprise and so on.

During the twelfth Five-Year Plan period, TISCO will take the technology innovation as the driving force, the capacity building as the core and the building of talent team as the guarantee; comprehensively promote “three-transformations”; insist on making the main business strong, the extension and further development, diversification development, green development and harmonious development under the guidance of scientific development and transformation development; and build itself into the most competitive stainless steel producer in the world. In the year of 2015, TISCO will become the domestic first class, internationally renowned large enterprise group with annual sales revenue of 200 billion yuan.

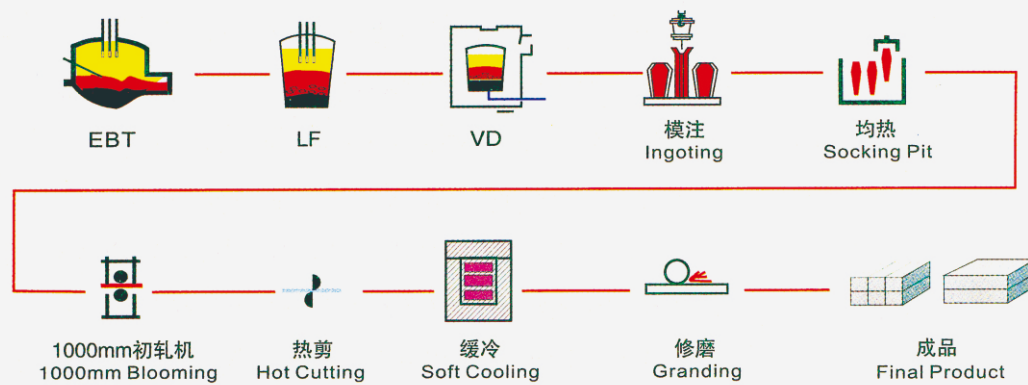


工艺流程 >>> Process Flow

锻材生产工艺流程 Forging Process Flow



轧材生产工艺流程 Rolling Process Flow



装备优势 (冶炼) >>> Advanced Equipment(Smelt)



超高功率电弧炉 Ultra-Power Electric Arc Furnace(EAF)

- 采用电炉熔合金，有利于铁水和合金预熔液金属料优化配置；
- 90t、160t超高功率电炉可适应多种原料结构，钢质纯净、匹配强大模铸能力。

The use of EAF for melting alloys optimizes the preparation of hot metal and pre-melting alloys.

- 90t and 160t ultra-power EAF are capable of charging stock combinations, accurate in the making of homogenous composition and excellent for furnace and machines compatibility.



180吨顶底复吹脱磷转炉
180t Top and Bottom Blowing De-Phosphorus Converter

- 采用顶底复吹模式，脱C、脱P、脱S能力强，可为不锈钢生产提供超脱P、S钢水；
- 冶炼采用副枪自动取样，更有利于粗炼钢水的质量稳定；采用了VAI一、二级自动控制系统，过程控制及终点成份控制更加准确。

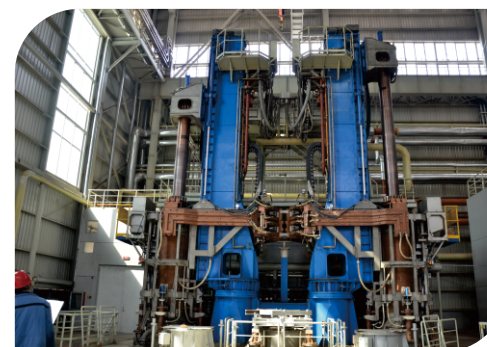
- Adopting top and bottom blowing pattern, has the strong capacity of decarbon, de-Phosphorus and de-sulfur, and provide extra-low P, S liquid steel for the production of stainless steel.



90吨VOD炉 90tVOD

- 真空度高，搅拌能力强：真空度 $\leq 0.5\text{Torr}$ ；搅拌能力 $1200\text{L}^3/\text{h}$ ；
- 钢质纯净度高： $[\text{O}] \leq 25\text{ppm}$ 、 $[\text{H}] \leq 2\text{ppm}$ ； $\text{S} \leq 0.005\%$ ， $\Sigma(\text{Pb}+\text{As}+\text{Sn}+\text{Sb}+\text{Bi}) \leq 0.01\%$ 。
- 适合超低碳、氮不锈钢生产： $\text{C}+\text{N} \leq 100\text{ppm}$ 。

- High vacuum capacity, power fur mixing performance, vacuum de-gree $\leq 0.5\text{Torr}$,mixing capacity $1200\text{L}^3/\text{h}$;
- High in steel cleanliness $[\text{C}] \leq 25\text{ppm}$ 、 $[\text{H}] \leq 2\text{ppm}$; $\text{S} \leq 0.005\%$; $\Sigma(\text{Pb}+\text{As}+\text{Sn}+\text{Sb}+\text{Bi}) \leq 0.01\%$;
- It is highly suitable for ultra-low carbon,nitrogen stainless steel production, $\text{C}+\text{N} \leq 100\text{ppm}$.



16吨气氛保护电渣炉 16-ton Electro-Slag Refining Furnace

- 双电源、双炉头、三工位电渣炉，钢锭直径： $\phi 400-1000\text{mm}$ ；
- 采用氩气、氮气保护气氛，冶炼过程不增氮、氧，适用于生产含Al、Ti钢种。

- The ESR furnace is equipped with twin power and two furnace head,three working position,the dimension of ingot: $\phi 400-1000\text{mm}$;
- Using Argon and Nitrogen protective gas, not increasing the content of Nitrogen and Oxygen during melting process, being applicable to producing grade contain Al and Ti.

装备优势 (径锻) >>>

Advanced Equipment(Radial Forging)

1800t径锻机 1800 Radial Forging Machine

- 高变开道次和宽锻比 (16:1) 保证优秀的锻造性和均匀性, 产品内在组织致密;
- 四向压应力高速锻造, 配备在线固溶和调质设备, 可生产22米超长料以及大口径厚壁锻管、台阶轴、锥形轴等异型件; 锻制的扁钢最宽420mm, 可保证完全直角交货。
- High reduction passes and wide production range (16:1) guarantee the excellent penetration and Uniformity, and the products are metallographically compact.
- High rate forging mill with four direction stress equipped with online solution and hardening and tempering devices can produce 22m super long material and thick big-bore forging pipe, step axis, and other non-standard parts. The maximum width of forging slab is 420mm, which can fully guarantee right-angle delivery condition.



1600mm磨切锯 1600mm Abrasive Cutting Machine

- 电机功率大、锯切功率高, 切割速度为5-70mm/s;
- 自动进行切头、切尾、锯定尺操作, 定尺长度偏差±3mm。
- High power motor, cutting with high efficiency, cutting speed is 5-70mm/s;
- Cutting heads and cutting to length automatically, length tolerance of sample is ±3mm.



2000t三点式全自动压力矫直机 2000-ton Three-position Automatic straightening Machine

- 采用激光扫描系统, 自动对材料进行矫直, 矫直后弯曲度≤1mm/m。
- Its laser scanning system can automatically straighten the materials. Linearity after straightening: ≤1mm/m.



500SI无芯剥皮机 500SI Peeling Machine

- 剥皮规格可实现φ500mm光亮材交货;
- 尺寸精度可达ISOH9水平, 表面光洁度可达Rt40水平 (辊压后可达Ra0.4 μm)。
- After peeling it can provide bright surface with diameter φ500mm.
- Size tolerance after peeling: ISOH8, surface roughness after peeling: Rt40 (polished by roller: Ra0.4 μm)



装备优势 (轧制&快锻) >>>

Advanced Equipment(Rolling & Forging)

100mm初轧机 100mm Blooming

- 轧机轧制能力强, 产品压缩比大, 内部组织致密, 加工性能优良。
- The blooming has high rolling capacity, greater reduction, producing the products metallographically compact, excellent in workability.



1000吨剪机 1000-ton Shear

- 剪切能力大、效率高、切损小;
- 剪切面积: 方坯≤16000mm², 扁坯≤18000mm²。
- High cutting capacity and efficiency, low cutting cost.
- Cutting cross-section: for square material: ≤16000mm², for flat material ≤18000mm².



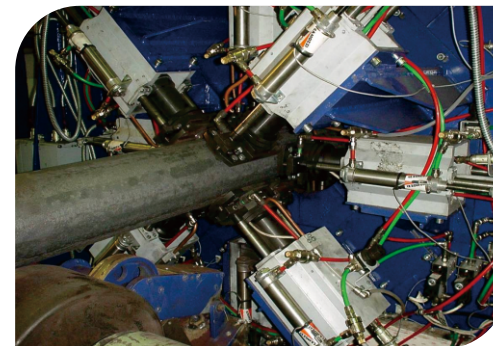
1000吨快锻机 1000-ton Forging Machine

- 双操作机, 适合于锻造长度较长的材料。
- With two manipulators, suitable for forging longer material.



在线自动探伤仪 In-line Automatic Detector

- 采用相控技术自动检测表面、亚表面、芯部缺陷, 一次检测完成。
- Using phase-array technology, automatically detect the surface, subsurface and heart (core) at the same time.



研发能力 >>>

Research and Development



国家级实验室
National level laboratory



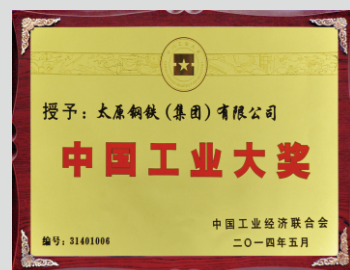
在国家认定的887家企业技术中心中，太钢技术中心排名第4位。

Tisco technology center ranks 4 th place among enterprise-based 887 technology centers accredited by the state



认证荣誉 >>>

Certification & Honors



主要产品及应用领域 >>>

Product Specification

■ 径锻机产品

钢类 Steel Seriet	规格 Specification	牌号 Grade	标准及技术条件 Standard and Technical Specification	主要特点 Feature	主要用途 Usage	
不锈钢体用钢	Φ120-600 圆、方锻材	AISI 410SS-A AISI 410SS-B	Q/太新092-2014	钢质纯净，-60℃及-46℃≥27J低温冲击功，大压缩比	闸板、防喷器 阀体、采油树 石油、石化等	
不锈钢圆	Φ80-450× 4000-18000mm 圆、方锻材	12Cr13 20Cr13 30Cr13 40Cr13 06Cr19Ni10 022Cr19Ni10 022Cr13Ni12Mo2 022Cr23Ni5Mo3N 14Cr17Ni2 05Cr17Ni4Cu4Nb	GB/T1220-2007 Q/TX3022-2003 Q/TX3023-2003	钢质纯净 组织均匀 性能稳定	阀门、喷嘴、高韧性 零件以及耐酸容器 及设备内衬、法兰、 泵轴等	
不锈钢管坯	Φ80-450× 3000-18000mm 圆锻材	管1Cr19Ni11Nb (TP347H) 管06Cr18Ni11Ti (TP321) 管022Cr19Ni10 (TP304) 管1Cr19Ni9 (TP304H) 管06Cr17Ni12Mo2 (TP316) 022Cr17Ni12Mo2 (TP316L) CODE CASE 2115-1 CODE CASE 2328-1 13Cr、超级13Cr、超级奥氏体	Q/TB3095-2013 Q/TX3243-2006	钢质纯净， P、S含量低， 大压缩比	石油、石化、肥用裂化管、 炉管、炉管换热器、核电、 舰艇用管坯；API标准系列套管	
双相钢管坯	Φ80-350× 3500-18000mm 圆、方锻材	022Cr23Ni5Mo3N S32750等	Q/太新114-2008 Q/太新005-2010	钢质纯净， P、S含量低， 大压缩比	用于炼油、化肥、石油、化工等 耐海水耐高温浓硝酸等的热交换器	
汽轮机 叶片用钢	Φ80-350× 2000-8000mm 圆锻材 14Cr11Mov	2Cr11Mo1NiWVNB R1-2Cr13、1Cr11Mov、 R1Cr12Mo、 R2Cr11Mo1VNbN、 R2Cr12NiMo1W1V、 0Cr17Ni4Cu4Nb 2Cr11MoNiWVNB	GB/T8732-2004 GB/T1220-2007 或协议	有较高的强度、 塑性、韧性和 热强性能	用于制做临界温度 汽轮机叶片	
发电机 护环用钢	Φ90-450× 2000-6000mm圆锻材	50Mn18Cr5等 Mn18Cr18N	Q/太新020-2009	钢质纯净， P、S含量低， 组织均匀	发电机护环用无磁钢	
钻铤用钢	Φ200-290mm× 4000-10000mm圆锻材	AISI4145H、37CrMnMoA TSMF166等	Q/太新041-2011	钢质纯净，成分 稳定，淬透性高， 硬度均匀	石油钻铤、钻具、 石油接头用钢	
	Φ120-230mm× 4000-13000mm圆锻材	1Cr13Mn18NiMoNbN、 TNMS501等				
限动芯棒	Φ170m-340mm× 10000mm-18000mm圆锻材	AISIH13等	GB/T1299-2000	钢质纯净，成分 稳定，硬度均匀， 组织致密。	用于将穿孔后的管坯轧 制成各种尺寸的无缝钢管	
合金 工具 钢系列	热作 模具钢	Φ80mm-450mm× 2000-10000mm圆锻材	4Cr5MoSiV1、R4Cr5MoSiV1、 5CrMnMo、5CrNiMo等	GB/T1299-2000 Q/TX3022-2003	有较高的热强度、 硬度、耐磨性， 且韧性好，具有 强的耐疲劳性	用于制作中高温下高韧性要求 的锻模、挤压模、压铸模
	冷作 模具钢	Φ80mm-310mm× 1000-5000mm圆锻材	(R) Cr12Mo1V1、CM2等	GB/T1299-2000		用于冷锻模、冷挤压模、压弯模等
	塑料 模具钢	Φ120mm-560mm圆锻材 70-400×100-500× 2000-6000	TS136、NAK80等	协议		用于制作镜面耐蚀塑料模具
高压锅炉管坯 用钢系列	Φ110-430mm× 3000-10000mm圆锻材	P5、P9、P91、P92等	协议	钢质纯净，成分 稳定，会合机械 性能良好。	石油、化工、电力、锅炉行业 的耐高温、耐低温、耐腐蚀用 无缝钢管坯用钢	
冷轧辊用钢	Φ80-180mm倍尺交货 圆锻材	RCr12Mo1V1s Rxx611等	协议		森吉米尔轧机专用辊	
特种用钢	Φ80-560mm圆锻材	TA10、TA2、N08028、N08810等	协议		油井管、核电、军工	
曲轴用钢	Φ100-400	S44SY、42CrMo4等	协议	钢质纯净，成分 稳定，会合机械 性能良好。	船舶、油田、机车柴油机曲轴	
高等机械用钢	Φ150-400	G20CrNiMoA G20Cr2NiA、17CrNiMo6 18CrNiMo7-6等	协议	钢质纯净，成分 稳定，会合机械 性能良好。	轴承、出轮、大型矿山机械、 大型电力机械	

主要产品及应用领域 >>> Product Specification

径锻机产品应用领域 Application of Radial Forging Products



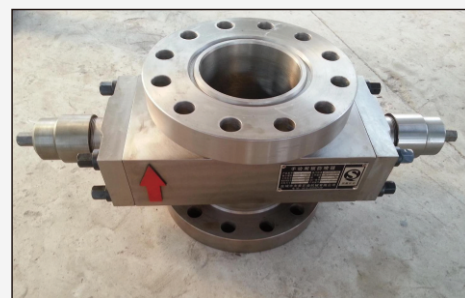
汽轮机叶片
Turbine Blades



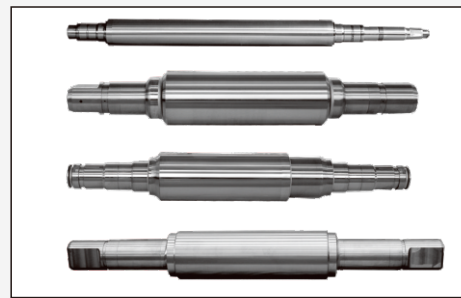
风力发电
Wind Power



高等级模具
High-Grade Die



油井设备
Oil well equipment



阶梯轴
Stepped shaft



石油钻杆
Petroleum Drill Collar



曲轴
Crankshaft



油井设备
Oil well equipment

主要产品及应用领域 >>> Product Specification

轧材产品 Rolling products

钢类 Steel Series	规格 Specification	牌号 Grade	标准及技术条件 Standard and Technical Specification	主要特点 Feature	主要用途 Usage	
不锈钢管坯	50-120 圆	TP304系 TP321系 TP347系 TP316系	Q/140000 TB3095-2013	钢质纯净 P、S含量低 椭圆度及弯曲度好 Pure steel P, low S content Good ovality and curvature	工艺管、流体管、再热器 省煤器等锅炉行业 Process control, fluid tubes, reheater Boiler economizer and other industries	
不锈钢轧材 Stainless Steel Rolling Products	(150-450) (150-450) × 2000-8500mm 方坯、矩形坯 (60-200) × (300-1000) × 2000-7000mm扁坯	12Cr13、20Cr13、 30Cr13、 3162 304 304L等	Q/TB3067-2007 Q/TX3454-2010	钢质纯净， P、S含量低， Clean steel, low P&S content	用于再轧、再锻各类 不锈钢板材、型材、轴类、 线材、法兰及其它工程用钢 Used for the rerolling, reforging of different stainless steel flat products, profile products, axle, wire and rod as well as other steel for project	
车轴钢 系列 Axle Steel Series	车辆轴 Freight Vehicle Axle	220 ² -360 ² mm	LZ40-LZ50	GB/T5068-1999 TB/2945-1999	成分控制窄， 残余元素含量低， 气体含量低， 钢质纯净， 力学性能优良。 Narrow composition control range, low residual elements, low gas content, pure steel quality, superior mechanical property	各类铁路车辆用轴 Used for vehicle axles of different railway
	机车轴 Locomotive Axle	220 ² -350 ² mm	JZ、JZ45	GB/T5068-1999 JCZP-01-98		各类铁路机车、车辆用轴 Used for axles of different railway locomotive
	出口轴 Exporting Axle	220 ² -260 ² mm	SFA60、JZ35、 AISI14140、EA4T	Q/TB3054-2007 Q/TB3063-2008 Q/太新013-2009		出口铁路机车及车辆用轴 Used for axles of different railway locomotive
高压气瓶钢 High Pressure Gas Bottle	200 ² mm	37Mn	Q/TB14000 3001-2003		无缝气瓶用 For seamless gas bottle	
	200 ² 、203 ² 210 ² 、230 ² mm	30CrMoA	Q/TB3041-2005	内在质量优良， 气体含量低， 钢质纯净， 组织致密。 Inferior good quality, low gas content, pure steel quality, tight structure	高级无缝气瓶用 For High-Class Seamless gas bottle	
	200 ² 、230 ² mm	34Mn2V	Q/TB3005-2003		无缝气瓶用 For seamless gas bottle	
	200 ² mm	34CrMo4	Q/TX3142-2005		出口气瓶用 For gas bottle of exporting	
模具钢 Steel for Mould	35-150×305-1000 ×2000-5000mm 150 ² -550 ² -mm 60-200×300- 800×1500- 5000mm 150 ² -550 ² mm	20Cr13、30Cr13 40Cr13 1.2344 RINA80 RS136L	Q/TB3067-2007 Q/太新012-2014 Q/太新139-2011 Q/太新126-2011 Q/TB3067-2007 Q/TX3280-2007	钢质纯净， 成分稳定， 淬透性高， 硬度均匀， 抛光性能好 Pure steel quality, stable composition high quenching, uniformed hardness, better polishing property	用于中高档塑料模具和模架 主要用于电渣模具厚板 Used in high-grade plastic mold and die set Mainly used for ESR die plate	
	50-200×300- 1000×2000- 5000mm 150 ² -550 ² mm	P20(H)	Q/TB3016-2004 Q/TB3067-2007		主要用于制造大、 中型和精密塑料模具 Mainly used for manufacturing large, medium and precise plastic mould	
	50-200×300- 1100×2000- 8000mm 150 ² -550 ² mm	S45C、S50C、S55C	Q/TB3004-2003 Q/TB3067-2007		主要用于低档塑料模具和模架 Mainly used for inferior plastic mould and die carrier	
专用优碳、合结、 低合金系列 Special Superior Carbon and Alloy Structure, low alloy series	150-550×150- 550×1500-9000mm 方坯、矩形坯 60-200×300- 1000×2000- 8000mm扁坯	45、35-42CrMo、 40CrNiMo、 Q345A-E、 Q420A-E、 Q460A-E等	Q/TB3067-2007 GB/T699-1999 GB/T3077-1999 GB/T1591-2008 Q/太新020-2010	成分控制窄， 钢质纯净， 综合机械性能好 Narrow composition control range, pure steel quality, good comprehensive mechanical property	用于再轧、再锻各类较高要求 板材、型材、轴类、线材、法兰 及其它工程锻件，用于制作较大 截面的轴、齿轮、连杆等 Used for rerolling, reforging of different highly quality requested flat product, profile, axle, flange and other project forgings used for axle, gear, connection rod etc. with bigger crossing section	

主要产品及应用领域 >>> Product Specification

轧材产品应用领域 Application of Rolling Products



法兰 Flange

火车轴 Axle for Train

气瓶 Gas Bottle

快锻产品 Free Forging Products

钢类 Steel Seriet	规格 Specification	牌号 Grade	标准及技术条件 Standard and Technical Specification	主要特点 Feature	主要用途 Usage
不锈钢棒 Stainless Steel Bar	Φ80—450 × 1000—7000mm 圆锻材	12Cr13、20Cr13、 30Cr13、06Cr18Ni11Ti、 022Cr19Ni10、 06Cr17Ni12Mo2、 022Cr17Ni12Mo2等	GB/T1220-2007 GB/T1221-2007 Q/TX3022-2003	钢质纯净， 组织均匀， 性能稳定 Pure steel quality, uniformed structure, stable property	阀门、喷嘴、高韧性零件以及耐酸 容器及设备内衬、输送管道、抗磁仪表 Valve, spray nozzle, high toughness component and anti-acid vessel as well as equipment liner, transportation conduit, anti-magnetic meter
模具锻圆 Mold Forging Bar	Φ90—400 × 1000—5000mm 圆锻材	(R) H13、 X38CrMoV5-1等	GB/T1299-2000 Q/TX3022-2003 Q/太新079-2009		锌、铝合金挤压及压铸模、热锻模 Zinc alloy、Aluminium alloy extrusion casting mold, hot forging die
专用碳合 结钢系列 Special Superior Carbon and Alloy Structure Series	Φ200—500 × 4000—7000mm 圆、方锻材	20-65Mn 40Cr、35-42CrMo SCM415-440、 17CrNiMo6、 34CrNi3Mo等	GB/T699-1999 GB/T03077-1999 Q/TX3022-2003 Q/TX3023-2003 Q/TB3043-2007 Q/太新107-2008	成分控制窄，残余 元素含量低，钢质 纯净，综合机械性 能良好，淬透性好 Narrow composition control range, low residue elements, pure steel quality, superior comprehensive mechanical property, good quenching property	用于再轧、再锻各类较高要求板材、 型材、轴类、线材、法兰较大截面 的轴、齿轮、连杆等 Used for rerolling, re forging of different highly quality requested flat product, profile, axle, flange and other project forgings Used for axle, gear, connection rod etc with bigger crossing section

快锻产品应用领域 Application of Free Forging Products



不锈钢阀门 Stainless Valve

高速电机轴 High Speed Motor Axle

电力机车转向架用钢

电渣锭产品 Electrical Slag Products

钢类 Steel Seriet	规格 Specification	牌号 Grade	执行标准 Standard	主要特点 Feature	主要用途 Usage
电渣锭 Electrical Slag Ingot	Φ400-1000mm	17-4 AISI410SS 316LN、312、 P91、P92、TSMF166、 RH13、20Cr2Ni4A、 R1Cr12Mo等	国标 协议 national standard Protocal	钢质纯净，P、S含量低， 外观质量好 性能稳定 Pure steel, low content of P.S, high appearance quality stable property	核电、军工、锅炉、钻 铤、芯棒、风电、轧辊 井筒管等 nuclear power, military project, boiler, drilling collar, wind power, core rod, mill roller

主要业务部门联系方式

Contacting Manners of the Main Business Sections

主要业务部门 Main business department	业务功能 Functions	联系电话 Telephone	E-mail
营销部 Marketing Department	合同管理、订货、异议、 投诉受理及出口贸易 Contract and order management Complaint and claim handing Exports business	0351-3018888-8160 /8169/8162/8165/8171 0351-3018888-8233 /8232/8219/8220/8221	shiyb@tisco.com.cn luzh@tisco.com.cn guoyi@tisco.com.cn
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