



**太原重工股份有限公司**  
TAIYUAN HEAVY INDUSTRY CO., LTD.

**轧钢设备**  
Steel Rolling Equipment



**太原重工股份有限公司**  
TAIYUAN HEAVY INDUSTRY CO., LTD.

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## 公司简介

太原重工是中国重型机械行业第一家上市公司，始建于1950年，占地面积370万平方米，资产总额187亿元，员工8000余人，年销售额超百亿元，属国家特大型重点骨干企业，被誉为“国之瑰宝”和“国民经济的开路先锋”。

公司主营：挖掘设备、起重设备、锻压设备、轧钢设备、焦炉设备、煤化工设备、铁路轮轴、齿轮传动、风力发电设备、油膜轴承、铸锻件、海洋装备等产品及工程项目的总承包。产品广泛应用于冶金、矿山、能源、交通、航天、化工、铁路、造船、环保等行业。

太原重工轧钢设备分公司是太原重工旗下专业从事各类冶金设备的设计制造、生产和经营的装备公司，可为用户提供EPC总承包工程的技术咨询、工厂和设备设计、设备制造、现场安装与调试服务。

我们始终秉承“诚信、创新、精益、卓越”的太重核心价值观，坚持“科技创新时空，服务引领未来”的理念，逐步由“生产型制造向服务型制造”转变，着力打造服务型企业，持续地为客户提供系统解决方案等全方位的服务。

## Introduction

Taiyuan Heavy Industry (TYHI) is the first listed company in China's heavy-duty machinery industry. It was established in 1950 and now consists of a campus with a total area of 370 hectares, 8000 employees and the total asset of CNY18.7 billion and annual sales volume of CNY10 billion. As a national key enterprise, TYHI has been dubbed a “National Treasure” and “Trailbreaker of National Economy” by various industry experts in China.

TYHI's main products cover excavator equipment, lifting equipment, forging equipment, rolling mill, coke oven equipment, coal chemical equipment, train wheel and axle, gear reducer, wind power generator, oil film bearing, casting and forging parts and marine equipment etc. and EPC, which are widely used for the metallurgy, mine, energy, transportation, aeronautics, chemistry, rail, shipbuilding and environmental protection industries.

Steel Rolling Equipment Subcompany of TYHI is the division specialized in the manufacture of metallurgical equipment. We can supply technical consultation of EPC project, plant and equipment engineering, equipment manufacturing, equipment installation and commissioning service.

We continuously follow the company core values of “Integrity, Innovation, Lean & Excellence”, insisting on the concept of “Technology innovates space time, Service guides the future”, gradually transforming from manufacturing-type enterprise to service oriented, with all our strength to create a service enterprise, constantly to offer the all-round service such as the system solution etc to customers.





# Manufacturing Capability 卓越能力

太原重工各类设备拥有量达4400余台，其中主要生产设备1700余台，重点设备200余台，进口设备260余台套。其中120t、80t钢包精炼炉，6.4m x 25000m热处理炉，可为用户提供单件重量500t以下的各类铸件；12500t锻造压机、4500t水压机、1250t水压机，可为用户提供1500 x 14000mm重量在260t的各类锻件；装配车间具有375t的起重能力。



6.5x25m热处理炉 6.5x25m Heat Treatment Furnace



80t钢包精炼炉 80t Refinery Furnace



125MN液压锻造机 125MN Open Die Hydraulic Forging Press

TYHI has over 4400 sets of various facilities in total, among which the main production equipment is over 1700 sets, the high-accuracy and heavy duty equipment 200 sets, the imported equipment 260 sets. They include 120t and 80t ladle refinery furnace, 6.4m X 25m heat treatment furnace for producing the castings weighing Max.500t, 125MN, 45MN and 12.5MN hydraulic forging presses for producing the 1.5m x 14m forgings weighing Max. 260t. Moreover, in the assembly shop, the lifting capacity of 375t is available.



4x15m龙门铣 4x15m Gantry Milling machine



8.5米立车 8.5m Vertical Lathe



Φ260mm 落地镗铣床 Φ260mm Boring and Milling Machine



装配车间 Assembly Shop



数控天桥铣机群 CNC Machining Centers



# Qualification 质量认证



ISO9001 国际标准质量管理体系认证  
ISO9001 Certification



ISO9001 国际标准质量管理体系认证  
ISO9001 Certification



环境管理体系认证证书  
Authentication Certificate of  
Environment Management System



职业健康安全管理体系认证  
International Standards Certification of  
Vocational Health and Safety Management System



国际焊接证书  
International Welding Certificate



国家实验室认可证书  
National Laboratory Accreditation Certificate

# Research & Development Center 研发中心

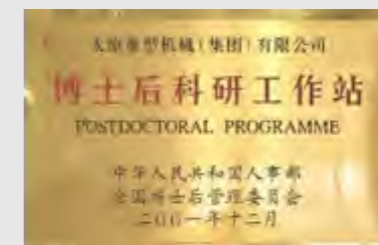


太重技术中心是国家认定企业技术中心（2014年全国排名第9位，重型机械行业第一名）、博士后流动工作站和全国企业专利试点单位，拥有一支526人的设计研发队伍，在德国弗莱施塔特和天津滨海各建有一个分中心，设有起重设备、轧钢设备、锻压设备、焦化设备、风电设备、工程机械设备、海工设备和港机设备等9个专业化研究所以及CAE、测量控制、标准信息化和计算机等4个基础研究所，形成了机、电、液、传动为一体的技术研发体系。

技术中心从事轧钢设计的人员共74人，其中教授级高工2名，高级工程师17名，工程师46名；轧钢设备分公司矫正机设计研究所，设计人员有30人，高级工程师8名。

The technology center of TYHI, which has the R&D team comprising 526 engineers, is awarded as the Nationally Certified Technical Center of Enterprise (in 2014 it ranked the 9th in the manufacturing industry and 1st in heavy duty machinery industry in China.), Post-doctoral Workstation and National Level Pilot Organization for the Patent of Enterprise. It has two branches respectively located in Freystadt, Germany and Binhai, Tianjin. It has 9 specialized departments respectively for the development, research and design of lifting equipment, rolling mill, forging equipment, mining excavator, coking equipment, wind power generator, construction machinery, marine equipment and port machinery. In addition, it has four basic R&D departments i.e. CAE, measurement control, standardization and computer. So far it has established the R&D system covering mechanical equipment, electrical control and automation system, hydraulic system and drive.

In the technical center, 74 engineers are specialized in R&D of rolling mill, including 2 professorate senior engineers, 17 senior engineers and 46 engineers. In addition, Steel Rolling Subcompany has the R&D department specialized in plate leveler and pipe straightener, which consists of 30 designers including 8 senior engineers.





# Seamless Tube Mill

## 管轧设备

太原重工是中国研发能力最强、制造水平最高、产品类型最全的无缝管设备和焊管设备制造商。可为用户设计制造成套无缝管生产线，包括管坯准备区、环形炉区、穿孔机区、轧机区、张减机/定径机区、冷床区、精整区、热处理区以及连线设备等。目前，产品不仅占据中国70%的市场份额，而且已出口至韩国、印度、沙特、印尼等海外国家。

In China, TYHI is the supplier of seamless tube mills with the strongest capability of research and development and manufacturing, having the most complete varieties of products. The scope of its supply covers the entire seamless tube production line, including billet preparation area, rotary hearth furnace area, piercing mill area, elongation mill area, stretch reducing mill/sizing mill area, cooling bed area, finishing area, heat treatment area and transport facilities between various mills. Currently its products not only account for the market share of 70% in China but also are exported to many overseas countries like South Korea, India, Saudi Arab, Indonesia etc.



Φ720mm 大口径无缝管生产线 Φ720mm Large Diameter Seamless Pipe Production Line



Φ180mm 三辊连轧管机组 Φ180mm Three-Roll Type Continuous Rolling Tube Mill

# Equipment Varieties & Parameters

## 设备选型表

机组型号	产品规格、性能及产能						坯料规格		主要工艺设备		
	直径	壁厚	生产节奏	轧制速度	产能	产品材质及用途		直径		品种	
	mm	mm	支/min	米/秒	万吨/年	钢种	用途	mm			
连轧管机组	89	25~89	2.5~12	130	4	15	普碳钢 合金钢	油套管 管线管 结构管 流体管 锅炉管	120~130	轧坯 锻坯 连铸坯	管坯锯、加热炉、穿孔机、连轧机脱管机、张减机、冷床、矫直机
	180	48~180	4~25	120	4	35			150~200		
	273	114~273	4~40	120	4.5	45			200~300		
	356	140~355	5~40	110	4.5	50			200~350		
	460	180~457	5.2~55	100	4.5	60			250~450		
Assel	108	60~108	6~20	2	1	10	普碳钢 合金钢	油套管 管线管 结构管 流体管 锅炉管	80~120	轧坯 锻坯 连铸坯	管坯锯、加热炉、穿孔机、Assel轧机、定径机、冷床、矫直机
	140	80~140	8~25	2	1	15			90~150		
	219	114~219	10~35	2	1	20			120~250		
	273	140~273	12~40	1.5	0.8	25			150~300		
	340	180~350	12~60	1.5	0.8	30			180~350		
Accu-Roll	140	73~140	4.5~15	2	1	12	普碳钢 合金钢	油套管 管线管 结构管 流体管 锅炉管	90~150	轧坯 锻坯 连铸坯	管坯锯、加热炉、穿孔机、A-R轧机、再加热炉、定径机、冷床、矫直机
	219	80~219	4.5~40	2	1	18			120~250		
	273	140~273	5~40	1.5	0.8	22			150~300		
	340	180~340	5~45	1	0.8	28			180~350		
CPE	89	33~89	3.5~10	3	6	5	普碳钢 合金钢	油套管 管线管 结构管 流体管 锅炉管	80~120	轧坯 锻坯 连铸坯	管坯锯、加热炉、穿孔机、顶棒机、松棒机、脱棒机、芯棒辗轧机、再加热炉、减径机、冷床、矫直机
	114	48~114	4~15	3	6	10			90~150		
	180	60~180	4~20	2	5	15			120~200		
	219	133~219	5~25	1.5	4.5	20			150~250		
皮尔格(热)	720	273~720	10~120	15/h	3m/min	15	碳钢 合金钢 不锈钢	结构管 锅炉管 流体管 油套管 气瓶管 核电管	380~800	锻坯 连铸坯	管坯锯、环形炉、穿孔机、热皮尔格、定径机、矫直机、冷床
皮尔格(冷)	120	80~120	1.4~16	40/天	18m/h	0.2	合金钢 不锈钢	结构管 锅炉管 流体管 油套管 气瓶管 核电管	89~146	轧坯	冷轧管机
	150	100~150	3~18	40/天	18m/h	0.25			108~171		冷轧管机
	200	140~229	3.5~22	30/天	15m/h	0.3			140~229		冷轧管机
	450	219~450	5~40	12/天	8m/h	0.6			250~480		冷轧管机
	530	325~530	6~50	12/天	8m/h	0.8			377~580		冷轧管机
	720	406~711	15~65	6/天	4m/h	1.2			460~760		冷轧管机



# Piercing Mill 穿孔机



Φ180mm穿孔机  
Φ180mm Piercing Mill



20MN压力穿孔机 20MN Piercing Press



Φ720mm穿孔机 Φ720mm Piercing Mill



Φ159mm穿孔机 Φ159mm Piercing Mill



Φ2000mm巨龙穿孔机 Φ2000mm Large Diameter Piercing Mill



Φ273mm穿孔机 Φ273mm Piercing Mill



## Tube Rolling Mill 管轧机



中国第一套Φ76mm连轧机架  
The Stand Of The First Set Of Φ76mm  
Rolling Mill In China



Φ273mm Accu-Roll管轧机组 Φ273mm Accu-Roll Tube Mill



Φ325mm ASSEL管轧机组 Φ325mm Assel Tube Mill



Φ180mm连轧管机组 Φ180mm Continuous Rolling Tube Mill



Φ180mm连轧管机组 Φ180mm Continuous Rolling Tube Mill



Φ720mm皮尔格热轧管机组 Φ720mm Hot Pilger Mill



Φ720mm 皮尔格冷轧机组 Φ720mm Pilger Cold Pipe Rolling Mill



## Sizing or Reducing Mill 定减径机



Φ180mm机组24机架张减机  
Φ180mm 24-Stand Stretch Reducing Mill



Φ273mm机组12机架定径机  
Φ273mm 12-Stand Sizing Mill



Φ1200mm3机架定径机  
Φ1200mm 3-Stand Sizing Mill

## Straightening Machine&Cooling Bed 管材矫正机&冷床



Φ325mm管材矫正机  
Φ325mm Straightening Machine



Φ720mm管材矫正机  
Φ720mm Straightening Machine



冷床  
Cooling Bed



# Plate Leveling Equipment

## 板材矫正设备



4.3米热处理矫正机 4.3m Hot Treatment Leveler



5米温矫正机 5m Warm Leveler



5米热矫正机 5m Hot Leveler

我公司是国内最大的矫正机专业化设计制造基地，“TZ”牌板材矫正机已有40余年的历史，广泛应用于冶金、装备制造、有色金属等领域，矫正机从5辊到23辊，矫平厚度从0.5-100mm,已形成系列产品。我公司自主研发的7辊、9辊、11辊全液压矫正机矫平厚度可到100mm，矫平宽度可达5000mm。“大型宽厚板矫正机成套技术装备开发与应用”荣获国家科学技术进步奖；“9辊矫正机”荣获国家科学技术进步三等奖；“5辊中厚板与宽厚板预矫正机”和“7辊带钢全液压矫正机”获得实用新型和发明专利。

TYHI is the largest manufacturer of plate levelers in China, which has engaged in the design and manufacture of the levelers for more than four decades, with our own brand “TZ”. It's applied to the metallurgical area, equipment manufacturing and nonferrous metal etc. The levelers have become a series of products from 5 to 23 rolls with the leveling thickness of 0.5 to 100mm. The 7-roll, 9-roll and 11-roll fully hydraulic leveler designed by TYHI is capable of producing the plates of 100mm thick and 5000mm wide. The heavy-duty wide and thick plate leveler has been awarded the National Prize for Scientific and Technological Progress. 9-roll levelers have been awarded the Third Prize of National Scientific and Technological Progress. 5-roll pre-levelers for middle thick plate, wide and thick plate and 7-roll fully hydraulic strip levelers have been awarded the patent for utility models and invention.



5米预矫正机  
5m Pre-leveler



高强度矫正机  
High Strength Leveler



17辊冷轧薄板矫正机  
17-Roll Cold-Rolling Strip Leveler



60MN压平机  
60MN Flattening Machine



## Strip Rolling Mill and Processing Line 板带轧机和精整设备



板带冷轧 Cold Rolling Mill



酸洗机组 Pickling Line



退火机组 Annealing Line

我公司为国内外厂家设计制造了五十余条不同基数水平的板带深加工生产线，设计制造了连续式酸洗机组，碳钢、不锈钢、硅钢冷连轧机组，平整机组、镀锌机组、彩涂机组、翻卷机组、打包机组及运输链等冷轧成套机组。

Through import advanced technology, Steel Rolling Sub-company of TYHI has manufactured and supplied more than 50 lines of strip rolling for domestic and foreign customers. We have designed and supplied continuous pickling lines, carbon steel, stainless steel and silicon steel cold continuous rolling line, skin-pass mills, galvanizing line, color coating line, turn-over coil line, wrapping line and chain conveyer.



热镀锌机组 Hot Dip galvanizing

## Welded Pipe Mill 焊管成套设备



太原重工是中国最大的焊管设备的设计制造基地，可按照API标准设计制造一步成型和预精焊成型的螺旋和直缝焊管设备。可生产钢级为X100，壁厚25.4mm、管径 $\phi$ 377-3000mm的焊管，产品远销到印度及东南亚市场。

TYHI is the largest base of design and manufacture of welded pipe equipment, the spiral and straight seam welded pipe equipment can be designed and manufactured in accordance with the API standard. We are able to meet the steel grade of X100, wall thickness of 25.4mm and diameter range of  $\phi$ 377-3000mm. The equipment has been exported to India and southeast Asian market.



水压试管机  
Hydrotester



螺旋焊管生产线 Welded Pipe Production Line