正大制管
ZHENG DA PIPE

资质资料

QUALIFICATION INFORMATION

正大制管官方微信服务号
Wechat service number

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Handan Headquarter

地址：河北 · 邯郸 · 成安工业区聚良大道9号
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迁安工厂
Qianan Factory

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山西工厂
Shanxi Factory

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全国销售服务热线：400-686-8888
NationalSalesHotline 400-686-8888

中国 · 邯郸
China Handan

正大制管
ZHENGDA PIPE

邯郸正大制管集团股份有限公司（简称：正大制管，英文缩写：ZDP ）前身为邯郸市正大制管有限公司，于2021年8月8日改制成立邯郸正大制管集团股份有限公司。获国家高新技术企业、全国守合同重信用企业、国家两化融合管理体系贯标企业、国家绿色工厂、国家知识产权优势企业、中国制造业500强、中国民营企业500强、中国品牌500强、京津冀100强、河北省百强企业、河北产业集群龙头企业、中国民营企业文化建设三十标杆单位等荣誉称号。是一家以高频焊管、热镀锌管、螺旋焊管、方矩管、热镀锌方矩管、钢塑复合管制造、销售为主导，集科、工、贸为一体的现代化综合型企业。自主品牌“天虹”获中国弛名商标、2014河北名片、河北省著名商标、河北省优质产品、河北省名牌产品等荣誉称号。

旗下拥有邯郸工厂、迁安工厂、山西工厂、云南工厂四大生产基地。公司自成立以来，秉承“做正派人、干大事业”的企业精神，遵循“规模、规范、规矩”的立厂之本，历经20年发展，现年可生产各类规格“天虹”“吉立”品牌钢管1000万吨，销售网络遍布全国并服务全球，其中公司产品热镀锌方矩管全国销量第一。

公司先后通过中国船级社ISO9001:2015、ISO14001:2015、ISO45001:2018、ISO50001:2018、ISO10012:2013，质量、环境、职业健康安全、能源管理、测量体系、知识产权六体系认证，美国石油学会API5L认证、欧盟CE认证。“天虹” 、“吉立”系列钢管产品普遍应用于石油管线、油气输送和给排水、自来水、消防、燃气、集中供暖、采暖蒸汽等低压流体输送及支架、穿线、钢结构、冷弯型材等用途。

公司系列钢管产品广泛使用于国家及省市众多重点工程建设，如南水北调工程、上海世博会、杭州湾大桥，河南城际铁路黄河大桥、武汉长江隧道、三峡大坝、济南奥体中心、南京地铁3号线、石武高铁、昆明长水国际机场、万科地产、万达广场、晋煤300万吨煤制造油项目、山东液化天然气（LNG）项目、贵州省农村安全饮用水项目等。

公司已成为中建、中铁、中冶、中石化、中石油、中海油等国家诸多大型企业的优质供应商，国内销售网络遍布全国，远及新疆、青海、云贵。目前，“天虹”牌钢管已出口到欧、美、非洲及东南亚等100多个国家和地区。

坚持科技创新，坚持品质唯上是正大制管的战略核心。集团拥有全国博士后科研工作站和钢管产业技术研究院，获国家发明专利212项，并与科研院校合作研发行业首创热镀锌工艺自动检测成套设备和焊接钢管缺陷自动检测AI智能识别系统，现已上线并获发明专利。自主研发薄壁管热镀锌成套设备，获中国表面防腐协会三等奖，联合研发300方柔性成型直接成方成套设备，报选河北省科技进步奖，目前已入围公示。

“致力发展，奉献社会”是正大制管的一贯宗旨。多年来，正大制管积极投身社会公益事业，常态化开展了“爱国拥军”双拥共建、“梅花盛开”助学行动等，成为省市两级“扶危济困”先进模范，以及河北省双拥共建战线上的一面旗帜。荣登《人民日报》发布“2023—2024年度全国退役军人就业合作企业”光荣榜，树立起新时代中国特色社会主义民营企业新形象。

广博为贤，唯正乃大。正大人以山的浑厚、海的广博，“雷厉风行，车快人急，令行禁止，钢铁意志”的工作作风，围绕“让所有人都认可正大制管”的奋斗目标和“千万吨级钢管制造集团不是正大制管的核心竞争力，精致才是”的新时期战略，与广大同仁一道，携手并肩，平行奔跑，为各自事业高质量发展努力前行。

Handan Zhengda Steel Pipe Group Co., LTD.□for short: zhengda steel pipe,abbreviation:ZDP□which was changed from Handan Zhengda Steel Pipe Co.,LTD. on 8th August, 2021. ZDP is honored as“National High-Tech Enterprise”, “National Trustworthy Enterprise”, “National Pilot Enterprise for Integration of Information Tech and Industrialization” “National Green Factory”, “National Intellectual Property Advantage Enterprise”, “National Top 500 Manufacturing Enterprise”, “ National Top 500 Private Enterprise”, “China Top 500 Brand”, “Beijing- Tianjin-Hebei Region Top 100 Enterprise”, “Hebei Top 100 Enterprise”, “Leading Enterprise of Hebei Industrial Cluster”, “ National Top 30 Benchmark Private Enterprise for Cultural Construction”. ZDP owns two brands: Tianhong and Jili. Dealing with the production and sale of ERW steel pipe,galvanized steel pipe, SSAW steel pipe, GI and black square and rectangular steel pipe, steel -plastic composite pipe, ZDP has become a modern comprehensive enterprise that focuses on manufacturing and sales, integrating science, industry, and trade. The self-owned brand “Tianhong” has been recognized as “2014 Business Card of Hebei Province”, “Famous Trademark of Hebei Province”, “Quality Products of Hebei Province”, “Hebei Famous Brand Products”etc.

ZDP has four production bases located in Handan City Hebei province, Tangshan City Hebei province, Houma City Shanxi Province and Yuxi City Yunnan Province. ZDP has adhered to the corporate spirit of "being a righteous person and doing great things", and followed the foundation of "scale, standardization, and rules" since it was established. .After 20 years of development, our annual capacity of steel pipes is more than 10 million tons with a sales network covering the whole country and serving the world. In addition, our hot-dip galvanized square and rectangular steel pipe has the highest sales volume in China.

The company has passed the certification of ISO9001：2015, ISO14001：2015, ISO45001：2018,ISO50001：2018, ISO10012：2013, six system certifications of quality, environment, occupational health and safety, energy management, measurement, and intellectual property, as well as API5L and CE.

Zhengda steel pipes are used for transportation of low-pressure fluid, such as oil and gas, water supply and drainage, firefighting, central heating, steam heating, and used for holder, threading, steel structure, cold-rolled steels, etc. Zhengda steel pipes are widely used in many key national and provincial construction projects, such as the South-to-North Water Transfer Project, Shanghai World Expo, Hangzhou Bay Bridge, Wuhan Yangtze River Tunnel, Three Gorges Dam, Nanjing Metro 3 Line, Kunming Changshui International Airport, Shanxi Coal 3 Million Tons of Coal-to-Oil Project, Shandong Liquefied Natural Gas(LNG) Project, Guizhou Province’s Rural Safe Drinking Water Project, etc.

ZDP has become the qualified supplier of many large enterprises in China, such as China Construction, China Railway, China Metallurgical, SINOPEC, CNPC and CNOOC. Our domestic sales network extends all over the country. “Tianhong” brand steel pipes have been exported to Europe, America, Africa, Southeast Asia and more than 100 countries and regions.

Adhering to technological innovation and prioritizing quality is the strategic core of ZDP. The group has a national postdoctoral research station and a steel pipe industry technology research institute. ZDP has obtained 212 national invention patents. The company has collaborated with research institutions to develop the industry's first complete set of automatic detection equipment for hot-dip galvanizing process and an AI recognition system for automatic detection of welded steel pipe defects, which has been launched and obtained invention patents. We have independently developed a complete set of equipment for hot-dip galvanizing of thin-walled steel pipes, which has won the third prize of the China Surface Anti-Corrosion Association. We jointly developed a complete set of equipment for direct square forming of 300 cubic meters of flexible forming, which has been selected for the Hebei Provincial Science and Technology Progress Award and shortlisted for public announcement.

“Committing to development and contributing to the society” is the consistent tenet of ZDP. Over the years, ZDP has been actively engaged in social public welfare undertakings, and has regularly carried out the work of “supporting the army and supporting the families”, “assisting students of the plum blossom” etc. It has become an advanced model of helping the poor at the municipal and county levels, and a banner in front of the joint support of provinces and cities. ZDP has been listed on the honor list of People's Daily's "2022-2024 National Veterans Employment Cooperation Enterprise", establishing a new image of a socialist private enterprise with Chinese characteristics in the new era.

Broad knowledge is wise, righteousness is great. The people of ZDP, with the richness of mountains and the vastness of the sea, adopting a work style of "swift and decisive, fast and urgent, strict orders and prohibitions, and steel will". Centered around the goal of "making everyone recognize ZDP" and the new era strategy of "the core competitiveness of ZDP is not the production of millions of tons of steel pipes, but the refinement is". Let’s work hand in hand with partners, run parallel, and strive for high-quality development of our respective careers.

CERTIFICATES の 资质证书

格式：TR07001R01

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

质量管理体系认证证书
QUALITY MANAGEMENT SYSTEM CERTIFICATE

编号：No.00524Q4342R3L

兹证明

邯郸正大制管集团股份有限公司
（注册/运营地址：河北省邯郸市成安县聚良大道9号 邮编：056700；
统一社会信用代码：91130424776162103M）

This is to certify that the Quality Management System (QMS) of

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
(Registered/Operation Add: No.9, JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, 056700, P.R.CHINA; Uniform Code of Social Credit: 91130424776162103M)

建立的质量管理体系符合标准：GB/T19001-2016/ISO9001:2015。
has been found to conform to standard: GB/T19001-2016/ISO9001:2015.

本证书对下述范围的质量管理体系有效：*许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、方矩形钢管、热镀锌方矩形钢管、钢塑复合管、3PE防腐管的生产*。
This certificate is valid to the following scope for QMS: *LICENSE WITHIN THE SCOPE OF PRODUCTION: SPIRAL SUBMERGED ARC WELDED STEEL PIPE, STRAIGHT SEAM HIGH-FREQUENCY WELDED STEEL PIPE, HOT DIPPED GALVANIZED HIGH FREQUENCY WELDED STEEL PIPE, SQUARE AND RECTANGULAR STEEL PIPE, HOT DIPPED GALVANIZED SQUARE AND RECTANGULAR STEEL PIPE, STEEL AND PLASTIC COMPOSITES PIPE, 3PE ANTI-CORROSION PIPE*.

上一认证周期截止时间：2024年12月23日/Last cycle Deadline: 23 December 2024
再认证审核时间：2024年8月12日-2024年8月16日/Recertification audit time: 12 August 2024-16 August 2024

本证书有效期至：2027年12月23日。
This certificate is valid until: 23 December 2027.

注：本证书覆盖的多场所见附件。Note: See the details of sites in the appendix.

证书专用章 Seal for Certificate (00-01)

发证日期：2024年9月9日
Issued on: 9 September 2024.
签 发：田伟
Issued by: Tian Wei

QMS

格式：TR07001R05

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

环境管理体系认证证书
ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

编号：No.00524E4343R3L

兹证明

邯郸正大制管集团股份有限公司
（注册/运营地址：河北省邯郸市成安县聚良大道9号 邮编：056700）

This is to certify that the Environmental Management System (EMS) of

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
(Registered/Operation Add: No.9, JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, 056700, P.R.CHINA)

建立的环境管理体系符合标准：GB/T24001-2016/ISO14001:2015。
has been found to conform to standard: GB/T24001-2016/ISO14001:2015.

本证书对下述范围的环境管理体系有效：*许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、方矩形钢管、热镀锌方矩形钢管的生产*。
This certificate is valid to the following scope for EMS: *LICENSE WITHIN THE SCOPE OF PRODUCTION: SPIRAL SUBMERGED ARC WELDED STEEL PIPE, STRAIGHT SEAM HIGH-FREQUENCY WELDED STEEL PIPE, HOT DIPPED GALVANIZED HIGH FREQUENCY WELDED STEEL PIPE, SQUARE AND RECTANGULAR STEEL PIPE, HOT DIPPED GALVANIZED SQUARE AND RECTANGULAR STEEL PIPE*.

上一认证周期截止时间：2024年12月23日/Last cycle Deadline: 23 December 2024
再认证审核时间：2024年8月12日-2024年8月16日/Recertification audit time: 12 August 2024-16 August 2024

本证书有效期至：2027年12月23日。
This certificate is valid until: 23 December 2027.

注：本证书覆盖的多场所见附件。Note: See the details of sites in the appendix.

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Issued by: Tian Wei

EMS

格式：TR07001R06

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

职业健康安全管理体系认证证书
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

编号：No.00524S4344R3L

兹证明

邯郸正大制管集团股份有限公司
（注册/运营地址：河北省邯郸市成安县聚良大道9号 邮编：056700）

This is to certify that the Occupational Health and Safety Management System (OHSMS) of

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
(Registered/Operation Add: No.9, JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, 056700, P.R.CHINA)

建立的职业健康安全管理体系符合标准：GB/T45001-2020/ISO45001:2018。
has been found to conform to standard: GB/T45001-2020/ISO45001:2018.

本证书对下述范围的职业健康安全管理体系有效：*许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、方矩形钢管、热镀锌方矩形钢管、钢塑复合管、3PE防腐管的生产*。
This certificate is valid to the following scope for OHSMS: *LICENSE WITHIN THE SCOPE OF PRODUCTION: SPIRAL SUBMERGED ARC WELDED STEEL PIPE, STRAIGHT SEAM HIGH-FREQUENCY WELDED STEEL PIPE, HOT DIPPED GALVANIZED HIGH FREQUENCY WELDED STEEL PIPE, SQUARE AND RECTANGULAR STEEL PIPE, HOT DIPPED GALVANIZED SQUARE AND RECTANGULAR STEEL PIPE, STEEL AND PLASTIC COMPOSITES PIPE, 3PE ANTI-CORROSION PIPE*.

上一认证周期截止时间：2024年12月23日/Last cycle Deadline: 23 December 2024
再认证审核时间：2024年8月12日-2024年8月16日/Recertification audit time: 12 August 2024-16 August 2024

本证书有效期至：2027年12月23日。
This certificate is valid until: 23 December 2027.

注：本证书覆盖的多场所见附件。Note: See the details of sites in the appendix.

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Issued by: Tian Wei

OHSMS

格式：TR07001R07

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

能源管理体系认证证书
CERTIFICATE OF MANAGEMENT SYSTEM FOR ENERGY

编号：No.00524En4345R2L

兹证明

邯郸正大制管集团股份有限公司
（注册/运营地址：河北省邯郸市成安县聚良大道9号 邮编：056700；
统一社会信用代码：91130424776162103M）

This is to certify that the Management System for Energy (EnMS) of

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
(Registered/Operation Add: No.9, JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, 056700, P.R.CHINA; Uniform Code of Social Credit: 91130424776162103M)

建立的能源管理体系符合标准：GB/T23331-2020/ISO50001:2018及RB/T 103-2013《能源管理体系 钢铁企业认证要求》。
has been found to conform to System Standard GB/T 23331-2020/ISO50001:2018 and RB/T103-2013 Energy management systems-certification requirements for iron and steel industry.

本证书对下述范围的能源管理体系有效：*许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、方矩形钢管、热镀锌方矩形钢管的生产过程所涉及的能源管理活动*。
This certificate is valid to the following scope for EnMS: *PRODUCTION PROCESS OF LICENSE WITHIN THE SCOPE OF PRODUCTION: SPIRAL SUBMERGED ARC WELDED STEEL PIPE, STRAIGHT SEAM HIGH-FREQUENCY WELDED STEEL PIPE, HOT DIPPED GALVANIZED HIGH FREQUENCY WELDED STEEL PIPE, SQUARE AND RECTANGULAR STEEL PIPE, HOT DIPPED GALVANIZED SQUARE AND RECTANGULAR STEEL PIPE RELATED ENERGY MANAGEMENT ACTIVITIES*.

上一认证周期截止时间：2025年12月15日/Last cycle Deadline: 15 December 2025
再认证审核时间：2024年8月12日-2024年8月16日/Recertification audit time: 12 August 2024-16 August 2024

本证书有效期至：2027年9月8日。
This certificate is valid until: 8 September 2027.

能源绩效信息见附件。Energy performance information as shown in attachment.

注：本证书覆盖的多场所见附件。Note: See the details of sites in the appendix.

证书专用章 Seal for Certificate (00-01)

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Issued by: Tian Wei

EnMS

CERTIFICATES の 资质证书

格式：TR07001R19

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

知识产权管理体系认证证书
INTELLECTUAL PROPERTY MANAGEMENT SYSTEM CERTIFICATE

编号：No. CCSC24IP4395R0L

兹证明

邯郸正大制管集团股份有限公司
（注册/运营地址：河北省邯郸市成安县聚良大道 9 号 邮编：056700）

This is to certify that the intellectual property management system(IPMS) of

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
(Registered/Operation Add: No.9, JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, 056700, P.R.CHINA)

建立的知识产权管理体系符合体系标准：GB/T 29490-2023。
has been found to conform to System Standard GB/T 29490-2023.

本证书对下述范围的知识产权管理体系有效：*许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、方矩形钢管、热镀锌方矩形钢管、钢塑复合管、3PE 防腐管的生产过程所涉及的知识产权管理活动*。
This certificate is valid to the following scope for IPMS: *INTELLECTUAL PROPERTY MANAGEMENT ACTIVITIES INVOLVED IN THE PRODUCTION PROCESS OF SPIRAL SUBMERGED ARC WELDED STEEL PIPE, STRAIGHT SEAM HIGH-FREQUENCY WELDED STEEL PIPE, HOT DIPPED GALVANIZED HIGH FREQUENCY WELDED STEEL PIPE, SQUARE AND RECTANGULAR STEEL PIPE, HOT DIPPED GALVANIZED SQUARE AND RECTANGULAR STEEL PIPE, STEEL AND PLASTIC COMPOSITES PIPE, 3PE ANTI-CORROSION PIPE WITHIN THE SCOPE OF THE LICENSE*.

本证书有效期至：2027 年 9 月 8 日。
This certificate is valid until: 8 September 2027.

注：本证书覆盖的多地所见附件。Note: See the details of sites in the appendix.

证书专用章 Seal for Certificate (00-01)

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格式：TR07009R01

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

碳管理体系认证证书
CARBON MANAGEMENT SYSTEM CERTIFICATE

编号：No. CCSC25CMMS0599R0L

兹证明

邯郸正大制管集团股份有限公司
（注册/运营地址：河北省邯郸市成安县聚良大道 9 号 邮编：056700；
统一社会信用代码：91130424776162103M）

CARBON MANAGEMENT SYSTEM CERTIFICATE

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
(Registered/Operation Add: No.9, JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, 056700, P.R.CHINA; Uniform Code of Social Credit: 91130424776162103M)

建立的碳管理符合标准：T/CCAA 39-2022。
has been found to conform to standard: T/CCAA 39-2022.

本证书对下述范围的碳管理有效：*许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、方矩形钢管、热镀锌方矩形钢管、钢塑复合管、3PE 防腐管的生产过程所涉及的碳管理活动*。
This certificate is valid to the following scope for CMMS: *PRODUCTION PROCESS OF LICENSE WITHIN THE SCOPE OF PRODUCTION: SPIRAL SUBMERGED ARC WELDED STEEL PIPE, STRAIGHT SEAM HIGH-FREQUENCY WELDED STEEL PIPE, HOT DIPPED GALVANIZED HIGH FREQUENCY WELDED STEEL PIPE, SQUARE AND RECTANGULAR STEEL PIPE, HOT DIPPED GALVANIZED SQUARE AND RECTANGULAR STEEL PIPEP, STEEL-PLASTIC COMPOSITE PIPE, 3PE ANTI-CORROSION PIPE RELATED CARBON MANAGEMENT ACTIVITIES*.

本证书有效期至：2028 年 02 月 05 日。
This certificate is valid until: 05 February 2028.

注：本证书覆盖的多地所见附件。 Note: See the details of sites in the appendix.

证书专用章 Seal for Certificate (00-01)

发证日期：2025 年 02 月 06 日
Issued on: 06 February 2025.
签 发：田祎
Issued by: Tian Wei

Form. TR03001R01

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

碳足迹评价证书
CERTIFICATE OF CARBON FOOTPRINT

证书编号/No.：CCSC20250405010200007

兹证明 / This is to certify that:

热镀锌高频焊管（圆管）

Hot-dip galvanized high-frequency welded pipe (round pipe)

委托方名称：邯郸正大制管集团股份有限公司
Commissioner: Handan Zhengda Steel Pipe Group Co., Ltd.
制造商名称：邯郸正大制管集团股份有限公司
Manufacturer: Handan Zhengda Steel Pipe Group Co., Ltd.
生产企业名称：邯郸正大制管集团股份有限公司
Factory: Handan Zhengda Steel Pipe Group Co., Ltd.
生产企业地址：河北省邯郸市成安县聚良大道 9 号
Address of the Factory: No.9, Juliang Avenue, Cheng'an County, Handan City, Hebei Province, P.R. China

依据准则：PAS2050:2011 商品和服务的生命周期温室气体排放评价规范; ISO14067:2018 温室气体 产品碳足迹 量化要求和指南
Evaluation Criteria: PAS 2050:2011 Specification for the assessment of the life cycle greenhouse gas emissions of goods and services; ISO14067:2018 Greenhouse gases-Carbon footprint of products -Requirements and guidelines for quantification

时间边界：2024 年 01 月 01 日 - 2024 年 12 月 31 日
Time Boundary: 01/01/2024 to 31/12/2024

系统边界：从摇篮到大门
System Boundary: Cradle to Gate

功能单位：1t 热镀锌高频焊管（圆管）
Functional Unit: 1 ton hot-dip galvanized high-frequency welded pipe (round pipe)

碳足迹量：2327.68 千克二氧化碳当量
Carbon Footprint of a Product per Functional Unit: 2327.68kgCO_2e

有 效 期：自证书签发之日起 2 年内有效
Validity Period: Two Years after Issuance Date

签 发 Signed by 田祎
发证机构 Issued by 中国船级社质量认证有限公司 China Classification Society Certification Co., Ltd.
发证日期 Issued on 2025 年 04 月 [illegible] 日 [illegible] 证书专用章 Seal for Certificate (00-04)

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№ A 71002630

Form. TR03001R01

中国船级社质量认证有限公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION CO., LTD.

碳足迹评价证书
CERTIFICATE OF CARBON FOOTPRINT

证书编号/No.：CCSC20250405010200008

兹证明 / This is to certify that:

3PE 防腐管

3PE anticorrosive pipe

委托方名称：邯郸正大制管集团股份有限公司
Commissioner: Handan Zhengda Steel Pipe Group Co., Ltd.
制造商名称：邯郸正大制管集团股份有限公司
Manufacturer: Handan Zhengda Steel Pipe Group Co., Ltd.
生产企业名称：邯郸正大制管集团股份有限公司
Factory: Handan Zhengda Steel Pipe Group Co., Ltd.
生产企业地址：河北省邯郸市成安县聚良大道 9 号
Address of the Factory: No.9, Juliang Avenue, Cheng'an County, Handan City, Hebei Province

依据准则：PAS2050:2011 商品和服务的生命周期温室气体排放评价规范; ISO14067:2018 温室气体 产品碳足迹 量化要求和指南
Evaluation Criteria: PAS 2050:2011 Specification for the assessment of the life cycle greenhouse gas emissions of goods and services; ISO14067:2018 Greenhouse gases-Carbon footprint of products -Requirements and guidelines for quantification

时间边界：2024 年 01 月 01 日 - 2024 年 12 月 31 日
Time Boundary: 01/01/2024 to 31/12/2024

系统边界：从摇篮到大门
System Boundary: Cradle to Gate

功能单位：1t 3PE 防腐管
Functional Unit: 1 ton 3PE anticorrosive pipe

碳足迹量：2293.78 千克二氧化碳当量
Carbon Footprint of a Product per Functional Unit: 2293.78kgCO_2e

有 效 期：自证书签发之日起 2 年内有效
Validity Period: Two Years after Issuance Date

签 发 Signed by 田祎
发证机构 Issued by 中国船级社质量认证有限公司 China Classification Society Certification Co., Ltd.
发证日期 Issued on 2025 年 04 月 [illegible] 日 [illegible] 证书专用章 Seal for Certificate (00-04)

第 1 页 共 1 页

№ A 71002631

资质证书

CERTIFICATES

SGS

Certificate of Conformity of the Factory Production Control
1029 – CPR – CN23/00002554

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Cold formed welded structural hollow sections of non-alloy and fine grain steels, described in annex.

placed on the market under the name or trade mark of
HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
NO. 9 OF JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, CHINA

and produced in the manufacturing plant
HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
NO. 9 OF JULIANG ROAD, CHENG'AN COUNTY, HANDAN CITY, HEBEI PROVINCE, CHINA

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 10219-1:2006

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements

This certificate is valid from 25 May 2023 until 24 May 2026,
and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

Issue 1. Certified with SGS since 25 May 2023

Authorised by
Luis Neves
Certification Management

Authorised by
Luis Santos
Certification Management

SGS ICS – Sociedade Internacional de Certificação, Lda., Notified Body 1029
Polo Tecnológico de Lisboa, Rua Cientista Aníbal Bernardes, lote 11, nº 1, 1600-684 Lisboa – Portugal
t +351 217104200 Email: pt.info@sgs.com - www.sgs.pt

IPAC accreditation
C0001
ISO/IEC 17065
Production

This document is an authentic electronic certificate for Client' business purposes are only. Printed version of the electronic certificate are permitted and will be considered as a copy. This document is issued by the Company subject to SGS General Conditions of certification services available on Terms and Conditions / SGS. Attention is drawn to the limitation of liability, indemnification and jurisdictional clauses contained therein. This document is copyright protected and any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful.

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SGS

Certificate of Conformity of the Factory Production Control
1029 – CPR – CN23/00002554

Annex 1

Product(s): Cold formed welded structural hollow sections of non-alloy and fine grain steels.

Product Description	Dimensions (mm)	Material
Circular hollow section	outside diameter 21-219 wall thickness 1.5-8.0	S235JRH S275J0H
Square hollow section	outside dimensions 25x25-200x200 wall thickness 1.5-10.0	
Rectangular hollow section	outside dimensions 25x25-200x150 wall thickness 1.5-10.0	

IPAC accreditation
C0001
ISO/IEC 17065
Production

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Page 2/2

Certificate of Authority to use the Official API Monogram
License Number: 5L-1239 ORIGINAL

The American Petroleum Institute hereby grants to

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.
No. 9 of Juliang Road, Cheng'an County
Handan, Hebei
People's Republic of China

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-5L** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **5L-1239**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Manufacturer of Line Pipe Plain End at PSL 1, Manufacturer of Line Pipe Plain End at PSL 2 - Type of Pipe: SAWH / Delivery Condition: M / Max. Grade: X70

QMS Exclusions: Design; Externally Owned Property

Effective Date: JANUARY 28, 2025
Expiration Date: APRIL 18, 2028

Senior Vice President of Global Industry Services

To verify the authenticity of this license, go to www.api.org/compositelist.

American Petroleum Institute

CORPORATE SEAL

2019-151 | Digital

服务认证证书

证书编号：49424FW0010R0S

兹证明

邯郸正大制管集团股份有限公司

统一社会信用代码：91130424776162103M

注册地址：河北省邯郸市成安县聚良大道9号 邮编：056700
生产/经营地址：河北省邯郸市成安县聚良大道9号 邮编：056700

经评价，服务能力符合：GB/T 27922-2011
《商品售后服务评价体系》标准规定的要求。

五 星 级

本证书覆盖范围

直缝高频焊管、热镀锌高频焊管、钢塑复合管、螺旋缝埋弧焊钢管、
方矩形钢管、热镀锌方矩形钢管的售后服务（五星级）

初次发证日期：2024年04月03日 本次发证日期：2024年04月03日 证书有效期至：2027年04月02日

证书签发：

河北中岚认证有限公司

河北省石家庄市桥西区槐角街与梅安路交叉口南北角美城国际B座1501A室 邮编：050000

SERVICE CERTIFICATION

Certification NO.: 49424FW0010R0S

Awarded to

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD.

Unified social credit code: 91130424776162103M

Registered address: NO.9 OF JULIANG ROAD, CHENG'AN COUNTY,HANDAN CITY, HEBEI PROVINCE,CHINA Zip code: 056700
Production/business address: NO.9 OF JULIANG ROAD, CHENG'AN COUNTY,HANDAN CITY, HEBEI PROVINCE,CHINA Zip code: 056700

By Evaluation，capacity to Achieve GB/T 27922-2011
《Commodity after-sales Service Evaluation System》
standard requirements.

Five star

Coverage of this certificate

Post-sales service of High Frequency Welded Steel Pipe，Hot-Dippied Galvanized Steel Pipe，Steel-Plastic Compostes Pipe，Spiral Submerged Arc Welded Steel Pipe，Black Square And Rectangular Steel Pipe，Hot Dipped Galvanized Square And Rectangular Steel Pipe（five stars）

Date of initial issue: Apr.03.2024 Date of this issue: Apr.03.2024 Date of expiry: Apr.02.2027

Certificate issuance：

HEBEI ZHONG LAN CERTIFICATION CO.，LTD

Room 1501A, Building B, Xicheng International, Northwest corner of intersection of Chengjiao Street and Huanjie Road, Qiaobeiqiao District, Shijiazhuang City, Hebei Province, 050000

No Lesen : **PC003510**
Licence No :

SCHEDULE

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD

Trade Mark :TIANHONG, JILI
Model :CFRHS = COLD RECTANGULAR HOLLOW SECTION FORMED
Rating :QUALITY DESIGNATION = JO;
DELIVERY CONDITION = H (HOLLOW SECTION)
Type :STEEL NAME : STRUCTURAL STEEL = S275
Size :WIDTH (mm) X HEIGHT (mm) = 40X20 – 250X150,
THICKNESS (mm) = 1.5 – 6.0,
MAXIMUM LENGTH (mm) = 6000

Trade Mark :TIANHONG, JILI
Model :CFRHS = COLD RECTANGULAR HOLLOW SECTION FORMED
Rating :QUALITY DESIGNATION = JO;
DELIVERY CONDITION = H (HOLLOW SECTION)
Type :STEEL NAME : STRUCTURAL STEEL = S275
Size :WIDTH (mm) X HEIGHT (mm) = 40X20 – 250X150,
THICKNESS (mm) = 1.5 – 6.0,
MAXIMUM LENGTH (mm) = 6000

End of page

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 199601037981(410334-X))
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40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA.
Tel : 603-5544 6000
Email : csservicejaas@sirim.my
https://www.sirim-qas.com.my
https://www.malaysiancertified.com.my

Tarikh Mula Pensijilan : **02 March 2018**
Certified Since
Sah Sehingga : **02 March 2026**
Valid Until
Tarikh Dikeluarkan : **10 February 2025**
Issue Date
No Siri : 107826
Serial No

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Page 2 of 2

No Lesen : **PC003510**
Licence No :

SCHEDULE

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD

Trade Mark :TIANHONG, JILI
Model :CFRHS = COLD FORMED SQUARE HOLLOW SECTION
Rating :QUALITY DESIGNATION = JR;
DELIVERY CONDITION = H (HOLLOW SECTION)
Type :STEEL NAME : STRUCTURAL STEEL = S235
Size :WIDTH (mm) X HEIGHT (mm) = 25X25 – 200X200,
THICKNESS (mm) = 1.5 – 10.0,
MAXIMUM LENGTH (mm) = 6000

Trade Mark :TIANHONG, JILI
Model :CFRHS = COLD FORMED SQUARE HOLLOW SECTION
Rating :QUALITY DESIGNATION = JO;
DELIVERY CONDITION = H (HOLLOW SECTION)
Type :STEEL NAME : STRUCTURAL STEEL = S275
Size :WIDTH (mm) X HEIGHT (mm) = 25X25 – 200X200,
THICKNESS (mm) = 1.5 – 10.0,
MAXIMUM LENGTH (mm) = 6000

Trade Mark :TIANHONG, JILI
Model :CFRHS = COLD FORMED SQUARE HOLLOW SECTION
Rating :QUALITY DESIGNATION = JR;
DELIVERY CONDITION = H (HOLLOW SECTION)
Type :STEEL NAME : STRUCTURAL STEEL = S275
Size :WIDTH (mm) X HEIGHT (mm) = 25X25 – 200X200,
THICKNESS (mm) = 1.5 – 10.0,
MAXIMUM LENGTH (mm) = 6000

Trade Mark :TIANHONG, JILI
Model :CFRHS = COLD RECTANGULAR HOLLOW SECTION FORMED
Rating :QUALITY DESIGNATION = JR;
DELIVERY CONDITION = H (HOLLOW SECTION)
Type :STEEL NAME : STRUCTURAL STEEL = S235
Size :WIDTH (mm) X HEIGHT (mm) = 40X20 – 250X150,
THICKNESS (mm) = 1.5 – 6.0,
MAXIMUM LENGTH (mm) = 6000

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Email : csservicejaas@sirim.my
https://www.sirim-qas.com.my
https://www.malaysiancertified.com.my

Tarikh Mula Pensijilan : **02 March 2018**
Certified Since
Sah Sehingga : **02 March 2026**
Valid Until
Tarikh Dikeluarkan : **10 February 2025**
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Serial No

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Page 1 of 2

No Lesen : **PC003510**
Licence No :

LESEN PENSIJILAN BARANGAN
Product Certification Licence

SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD
NO. 9 JULIANG ROAD, CHENG'AN COUNTY
HANDAN CITY
HEBEI PROVINCE, CHINA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

COLD FORMED WELDED STRUCTURAL HOLLOW SECTIONS OF NON-ALLOYS STEEL

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with

MS EN 10219-1 : 2015

Ts. Md. Adha bin Katni @ Rahmat
Pemangku Ketua Pegawai Eksekutif
Acting Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 199601037981(410334-X))
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Certified Since
Sah Sehingga : **02 March 2026**
Valid Until
Tarikh Dikeluarkan : **10 February 2025**
Issue Date
No Siri : 107826
Serial No

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No Lesen : **PC003518**
Licence No :

SCHEDULE

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD

Trade Mark :TIANHONG, JILI
Model :SERIES = L2
Rating :TUBE CONDITION = BARE; HOT DIP GALVANISED TO EN 10240
Type :TUBE MANUFACTURING PROCESS= WELDED (W); TUBE ENDS = PLAIN
Size :OUTSIDE DIAMETER (mm) = 21.3, 26.9, 33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3;
LENGTH (m) = 6

Trade Mark :TIANHONG, JILI
Model :SERIES = M (MEDIUM)
Rating :TUBE CONDITION = BARE; HOT DIP GALVANISED TO EN 10240
Type :TUBE MANUFACTURING PROCESS= WELDED (W); TUBE ENDS = PLAIN
Size :OUTSIDE DIAMETER (mm) = 21.3, 26.9, 33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1;
LENGTH (m) = 6

End of page

SIRIM QAS International Sdn. Bhd.
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Tarikh Mula Pensijilan : **09 March 2018**
Certified Since
Sah Sehingga : **09 March 2026**
Valid Until
Tarikh Dikeluarkan : **10 February 2025**
Issue Date
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Serial No

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Licence No :

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SIRIM QAS International Sdn. Bhd. hereby grants to

HANDAN ZHENGDA STEEL PIPE GROUP CO., LTD
NO. 9 JULIANG ROAD, CHENG'AN COUNTY
HANDAN CITY
HEBEI PROVINCE, CHINA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

NON-ALLOY STEEL TUBE

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with

MS 863 : 2010

Ts. Md. Adha bin Katni @ Rahmat
Pemangku Ketua Pegawai Eksekutif
Acting Chief Executive Officer
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 199601037981(410334-X))
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https://www.malaysiancertified.com.my

Tarikh Mula Pensijilan : **09 March 2018**
Certified Since
Sah Sehingga : **09 March 2026**
Valid Until
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Serial No

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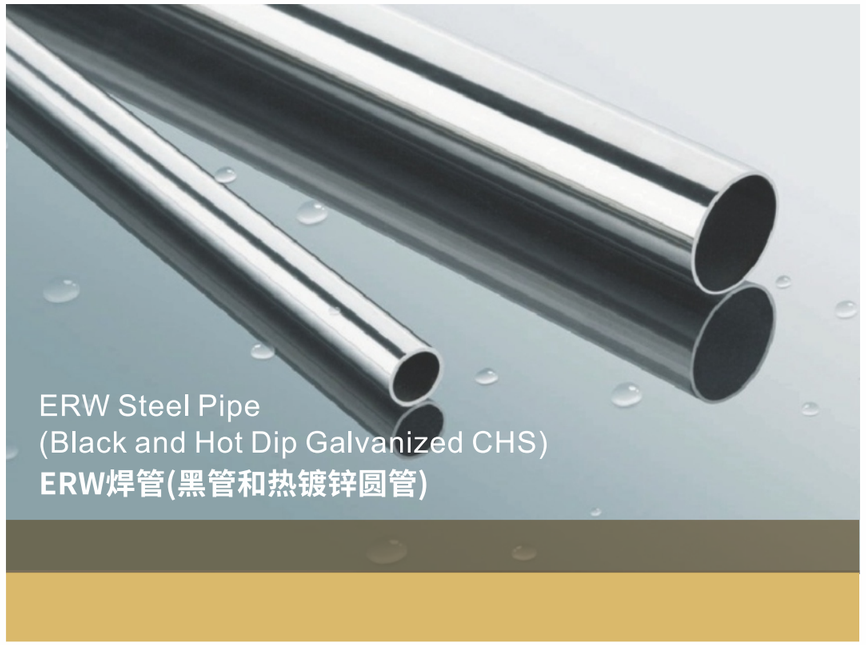


产品应用

用于输送水、煤气、空气、油、取暖蒸汽等低压流体，以及构建农业大棚、家具、脚手架等机械结构。

生产标准

GB/T 3091-2015
GB/T 13793-2016
ASTM A53
EN10217
JIS G3444

黑管

生产线:16条
年生产能力:120万吨

热镀锌圆管

生产线:12条
年生产能力:120万吨

Product Application

Used for transporting water, gas, air, oil, heating steam and other low-pressure fluid, as well as constructing agricultural greenhouse,furniture, scaffolding and other mechanical structure.

Production Standards

GB/T 3091-2015
GB/T 13793-2016
ASTM A53
EN10217
JIS G3444

ERW Black Steel Pipe

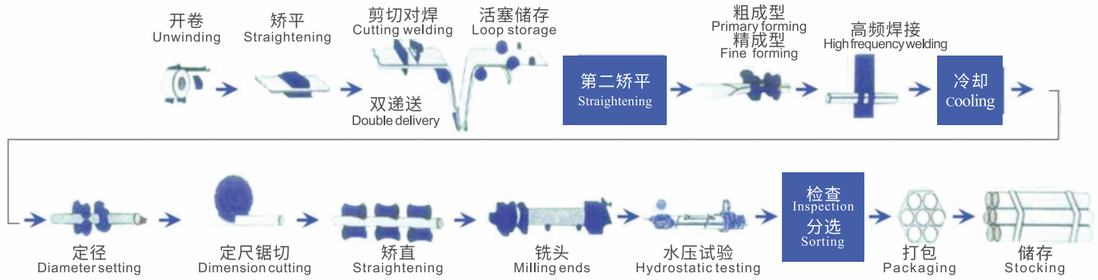
1.Production Line: 16
2.Annual Capacity: 1,200,000 Tons

Galvanized Steel Pipe

1.Production Line: 12
2.Annual Capacity: 1,200,000 Tons

直缝焊管工艺流程图

PFD of ERW Steel Pipe



ERW焊管重量(Kg/m)

Size&Weight of ERW Steel Pipe(Kg/m)

Wall Thickness \ Diameter	1/2"(21.3)	3/4"(26.7)	1"(33.4)	1-1/4"(42.4)	1-1/2"(48.3)	2"(60.3)	2-1/2"(73)	3"(88.9)	4"(114.3)	5"(141.3)	6"(165)	8"(219.1)
1.50	0.73	0.93										
1.60	0.78	0.99										
1.70	0.82	1.05	1.33	1.71	1.95							
1.80	0.87	1.11	1.40	1.80	2.06							
1.90	0.91	1.16	1.48	1.90	2.17	2.74	3.33					
2.00	0.95	1.22	1.55	1.99	2.28	2.88	3.50					
2.20	1.04	1.33	1.70	2.18	2.50	3.15	3.84					
2.30	1.08	1.38	1.76	2.27	2.61	3.29	4.01					
2.40	1.12	1.44	1.83	2.37	2.72	3.43	4.18	5.12	6.62			
2.50	1.16	1.50	1.90	2.46	2.82	3.56	4.35	5.33	6.90	8.56	10.02	
2.75	1.26	1.62	2.08	2.69	3.09	3.90	4.76	5.84	7.56	9.40	11.00	
3.00			2.25	2.91	3.35	4.24	5.18	6.35	8.23	10.23	11.99	15.99
3.25			2.42	3.14	3.61	4.57	5.60	6.86	8.90	11.06	12.96	17.30
3.50					3.87	4.90	6.00	7.37	9.56	11.90	13.93	18.61
3.75					4.12	5.23	6.40	7.87	10.22	12.72	14.91	19.91
4.00					4.37	5.55	6.81	8.37	10.88	13.54	15.88	21.22
4.25								8.87	11.53	14.36	16.85	22.52
4.50								9.37	12.18	15.18	17.81	23.81
4.75									12.83	15.99	18.77	25.11
5.00									13.48	16.81	19.73	26.40
5.25												27.69
5.50												28.98
5.75												30.25
6.00												31.53

Square and Rectangular Steel Pipe

(Black and Hot Dip Galvanized SHS/RHS)

方矩管(黑管和热镀锌方矩管)

产品应用

机械设备，太阳能设备，钢结构，汽车部件，桥梁地桩，护栏，船舶内部结构。

生产标准

GB/T6728-2017
GB/T6725-2017
GB/T3094-2012
JG/T178-2005
JIS G3466-2010
EN10219-2-2019
ASTM A500

黑管

生产线:12条
年生产能力:80万吨

热镀锌方矩管

生产线:16条
年生产能力:80万吨

Product Application

Used for machinery equipment, solar energy equipment, steel structrue, auto parts, bridge pile, guardrail, ship internal structure.

Production Standards

GB/T6728-2017
GB/T6725-2017
GB/T3094-2012
JG/T178-2005
JIS G3466-2010
EN10219-2-2019
ASTM A500

Black SHS/RHS

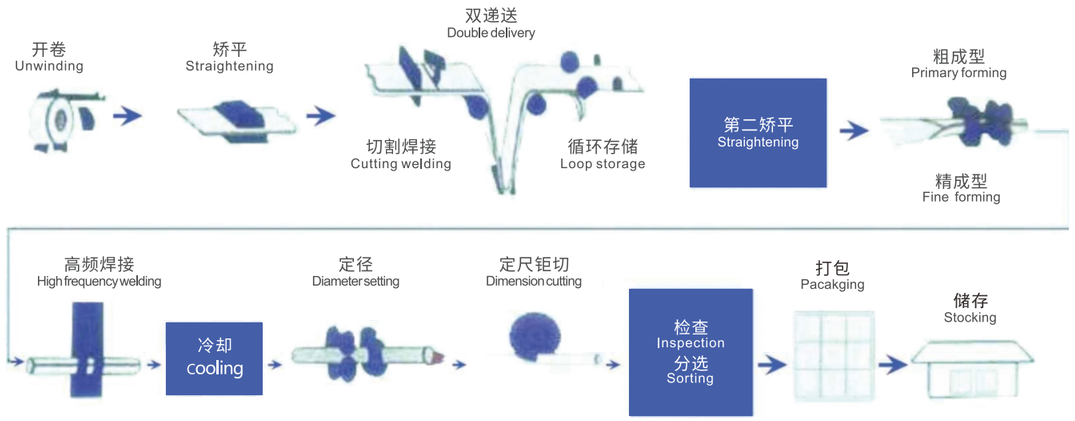
1.Production Line: 12
2.Annual Capacity: 800,000 Tons

Galvanized SHS/RHS

1.Production Line: 16
2.Annual Capacity: 800,000 Tons

方钜型管工艺流程图

PFD of Square&Rectangulr Steel Pipe



方管重量(Kg/m)

Size&Weight of Square Pipe(Kg/m)

Diameter / Wall Thickness	25*25	30*30	40*40	50*50	60*60	70*70	80*80	100*100	120*120	150*150	200*200	300*300
1.50	1.08	1.31	1.78	2.25								
1.60	1.14	1.39	1.89	2.40								
1.70	1.20	1.47	2.01	2.54								
1.80	1.27	1.61	2.12	2.68								
1.90	1.33	1.63	2.22	2.82								
2.00	1.39	1.70	2.33	2.96	3.59							
2.20	1.51	1.86	2.55	3.24	3.93							
2.30	1.57	1.93	2.65	3.37	4.10							
2.40	1.63	2.00	2.76	3.51	4.26							
2.50	1.68	2.07	2.86	3.64	4.43	5.21	6.00	7.57	9.14			
2.75	1.82	2.25	3.11	3.98	4.84	5.71	6.57	8.30	10.02			
3.00		2.42	3.36	4.31	5.25	6.19	7.13	9.02	10.90	13.73		
3.25			3.61	4.63	5.65	6.67	7.69	9.73	11.77	14.83		
3.50			3.85	4.95	6.04	7.14	8.24	10.44	12.64	15.94	21.43	32.42
3.75			4.08	5.26	6.43	7.61	8.79	11.14	13.50	17.03	22.96	34.69
4.00			4.31	5.56	6.82	8.07	9.33	11.84	14.35	18.12	24.40	36.96
4.25				5.86	7.20	8.53	9.87	12.53	15.20	19.21	25.88	39.22
4.50				6.16	7.57	8.98	10.40	13.22	16.05	20.29	27.35	41.48
4.75				6.44	7.94	9.43	10.92	13.90	16.89	21.36	28.82	43.73
5.00				6.73	8.30	9.87	11.44	14.58	17.72	22.43	30.28	45.98
5.25							11.95	15.25	18.55	23.49	31.73	48.22
5.50							12.46	15.91	19.37	24.55	33.18	50.45
5.75							12.96	16.57	20.18	25.60	34.63	52.68
6.00								17.22	21.00	26.64	36.06	54.9
6.50										28.72	38.92	59.33
6.75										29.75	40.35	61.54
7.00										30.77	41.76	63.74
7.50										32.80	44.58	68.12
7.75										33.81	45.97	70.31
8.00										34.81	47.37	72.49
9.75											56.96	87.58
10.00											58.31	89.71

矩管重量(Kg/m)

Size&Weight Of Rectangular Pipe(Kg/m)

Diameter / Wall Thickness	40*20	40*30	50*25	50*30	60*40	70*50	80*40	80*60	100*50	100*60	120*60	120*80	150*100	160*80	200*100	250*150	400*200
1.50	1.31																
1.60	1.39																
1.70	1.47	1.74	1.87	2.01													
1.80	1.55	1.83	1.97	2.12	2.68												
1.90	1.63	1.93	2.08	2.22	2.82												
2.00	1.70	2.02	2.18	2.33	2.96	3.59	3.59										
2.20	1.86	2.20	2.37	2.55	3.24	3.93	3.93	4.62	4.96								
2.30	1.93	2.29	2.47	2.65	3.37	4.10	4.10	4.82	5.18	5.54							
2.40	2.00	2.38	2.57	2.76	3.51	4.26	4.26	5.02	5.39	5.77							
2.50	2.07	2.47	2.67	2.86	3.64	4.43	4.43	5.21	5.61	6.00	6.78	7.57					
2.75	2.25	2.69	2.90	3.11	3.98	4.84	4.84	5.71	6.14	6.57	7.43	8.30					
3.00	2.42	2.90	3.13	3.36	4.31	5.25	5.25	6.19	6.66	7.13	8.07	9.02	11.37	10.90	13.73	18.44	32.42
3.25		3.10	3.35	3.61	4.63	5.65	5.65	6.67	7.18	7.69	8.71	9.73	12.82	11.77	14.83	19.94	34.69
3.50				3.85	4.95	6.04	6.04	7.14	7.69	8.24	9.34	10.44	13.19	12.64	15.94	21.43	36.96
3.75				4.08	5.26	6.43	6.43	7.61	8.20	8.79	9.97	11.14	14.09	13.50	17.03	22.92	39.22
4.00					5.56	6.82	6.82	8.07	8.70	9.33	10.59	11.84	14.98	14.35	18.12	24.40	41.48
4.25								8.53	9.20	9.87	11.20	12.53	15.87	15.20	19.21	25.88	43.73
4.50								8.98	9.69	10.40	11.81	13.22	16.75	16.05	20.29	27.35	45.98
4.75								9.43	10.17	10.92	12.41	13.90	17.63	16.89	21.35	28.82	48.22
5.00								9.87	10.65	11.44	13.01	14.58	18.50	17.72	22.43	30.28	50.45
5.25									11.13	11.95	13.60	15.25	19.37	18.55	23.49	31.73	52.68
5.50									11.59	12.46	14.19	15.91	20.23	19.37	24.55	33.18	54.90
5.75									12.06	12.96	14.86	16.57	21.09	20.18	25.60	34.63	59.33
6.00									12.51	13.46	15.34	17.22	21.93	21.00	26.64	36.06	61.54
6.50													23.62	22.60	28.72	38.92	63.74
6.75													24.45	23.39	29.75	40.35	68.12
7.00													25.28	24.18	30.77	41.76	70.31
7.50													26.91	25.74	32.80	44.58	72.49
7.75													27.72	26.51	33.81	45.97	87.58
8.00													28.53	27.27	34.81	47.37	89.71
9.75																56.96	
10.00																58.31	

螺旋缝双面埋弧焊管

SSAW Steel Pipe

(Spiral Submerged Arc Welded Steel Pipe)

产品应用

可用于输送天然气、水、空气、燃气、暖气等普通液体，也可用于打桩、结构等施工领域。

生产标准

GB/T9711-2023
API 5L (PSL1/PSL 2)
SY/T5037-2023

螺旋焊钢管

生产线:12条
年生产能力:32万吨

Product Application

Used for transporting gas, water, air and other ordinary fluids, as well as the construction area.

Production Standards

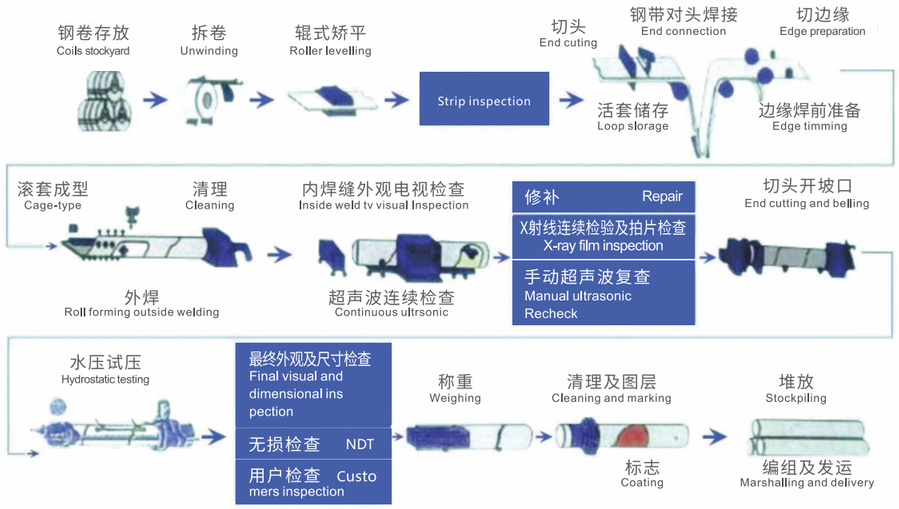
GB/T9711-2023
API 5L (PSL1/PSL 2)
SY/T5037-2023

SSAW Steel Pipe

1.Production Line: 12
2.Annual Capacity: 320,000 Tons

螺旋缝双面埋弧焊管工艺流程图

PFD of SSAW Steel Pipe



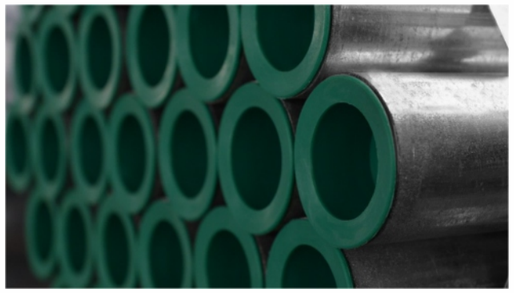
螺旋缝双面埋弧焊管重量(Kg/m)

Size&Weight of SSAW Steel Pipe (Kg/m)

Diameter / Wall thickness		6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00
inch	mm											
8	219.1	31.53	36.61	41.65	48.63	51.57	56.45					
10	273.1	39.52	45.94	52.30	58.62	64.88	71.10					
12	323.9	47.04	54.71	62.32	69.89	77.41	84.88					
14	355	51.73	60.18	68.58	76.93	85.23	93.48					
16	406.4	59.25	68.95	78.60	88.20	97.76	107.26					
18	457	66.73	77.68	88.58	99.44	110.24	120.99	131.69				
20	508	74.28	86.49	98.65	110.75	122.81	134.82	146.79				
22	559	81.83	95.29	108.71	122.07	135.39	148.66	161.88				
24	610	89.37	104.10	118.77	133.39	147.97	162.49	176.97	191.40			
26	660	96.77	112.73	128.63	144.49	160.30	176.06	191.77	207.43			
28	711	104.32	121.53	138.73	155.81	172.88	189.89	206.86	223.78			
32	813	119.41	139.14	158.82	178.45	198.03	217.56	237.05	256.48	275.86		
36	914	134.36	156.58	178.75	200.87	222.94	244.96	266.94	288.86	310.73		
40	1016	149.45	174.18	198.87	223.51	248.09	272.63	297.12	321.56	345.95		
42	1067	156.99	182.98	208.92	234.81	260.65	286.45	312.19	337.89	363.54		
44	1118	164.54	191.79	218.99	246.15	273.25	300.30	327.31	354.26	381.17	408.02	434.83
48	1219	179.49	209.23	238.92	268.56	298.16	327.70	357.20	386.64	416.04	445.39	474.68
56	1422		244.27	278.97	313.62	348.22	382.77	417.27	451.72	486.13	520.48	554.79
64	1626		279.49	319.22	358.90	398.53	438.11	477.64	517.13	556.56	595.95	635.28
68	1727			339.14	381.32	423.44	465.51	507.53	549.51	591.43	633.31	675.13
72	1829			359.27	403.96	448.59	493.18	537.72	582.21	626.65	671.04	715.38
80	2032			396.15	448.98	498.63	548.22	597.76	647.25	696.69	746.09	795.43

Steel-Plastic Composite Pipe

钢塑复合管



Product Application

Used for the fluid transportation and heating Engineering for daily use, such as drinking water,tap water, gas, firefighting, chemical products, etc.

产品应用

可用于日常生活用水，饮用水、自来水、燃气、消防、化工产品等的流体输送和加热工程。

Production Standards

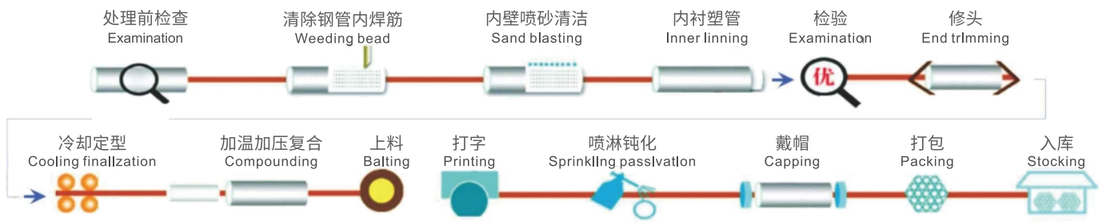
GB/T28897-2021
GB/T3091-2015

生产标准

GB/T28897-2021
GB/T3091-2015

钢塑复合管工艺流程图

PFD of Steel&Plastic Complex Pipe



List of Specifications

Specifications		Application	Chemical Requirement(%)						Physical Requirement	
			C (MAX)	Si (MAX)	Mn (MAX)	P (MAX)	S (MAX)	Others	Tensile Strength Min MPa(Psi)	Yield Strength Min MPa(Psi)
ASTM A53	A	Carbon Steel pipes for ordinary piping	0.25	—	0.95	0.05	0.045	Cu,Cr,Ni ≤0.40 MO≤0.15 V≤0.08	330MPa (48000 Psi)	205MPa (30000 Psi)
	B		0.30	—	1.20	0.05	0.045		415MPa (60000 Psi)	240MPa (35000 Psi)
ASTM A252	Grade I	—	—	—	—	0.05	—	—	345MPa (50000 Psi)	207MPa (30000 Psi)
	Grade II								414MPa (60000 Psi)	241MPa (35000 Psi)
	Grade III								455MPa (66000 Psi)	310MPa (45000 Psi)
ASTM A500	A	Structural Carbon Steel Pipes in Round	0.30	—	—	0.045	0.045	Cu≥0.20 When required	310MPa (45000 Psi)	228MPa (33000 Psi)
	B		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	289MPa (42000 Psi)
	C		0.27	—	1.40	0.045	0.045		428MPa (62000 Psi)	317MPa (46000 Psi)
	D		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	248MPa (36000 Psi)
	A	Structural Carbon Steel Pipes in Square& Rectangular	0.30	—	—	0.045	0.045	Cu≥0.20 When required	310MPa (45000 Psi)	269MPa (39000 Psi)
	B		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	317MPa (46000 Psi)
	C		0.27	—	1.40	0.045	0.045		428MPa (62000 Psi)	345MPa (50000 Psi)
	D		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	248MPa (36000 Psi)
ASTM A795	A	Carbon Steel Pipes For Fire Protection Use	0.25	—	0.95	0.035	0.035	—	—	—
	B		0.30	—	1.20	0.035	0.035			
KS D 3566 (JIS G 3444)	STK 290	General Structural Purposes	—	—	—	0.050	0.050	—	290(30)	—
	STK 400		0.25	—	—	0.040	0.040	—	400(41)	235(24)
	STK 500		0.24	0.35	0.30-1.00	0.040	0.040	—	490(51)	315(36)
	STK 490		0.18	0.55	1.50	0.040	0.040	—	500(50)	355(32)
	STK 540		0.23	0.23	1.50	0.040	0.040	—	540(55)	390(40)

Elongation Min(%)		Flattening Test	Bend Test	Hydrostatic & NDT	Others
Longitudinal Direction	Transverse Direction				
e-625,000x e:minimum elongation in 2 in(50.8mm) A:Cross - Sectional area of the test specimen in sq in U:Specified minimum ultimate tensile strength in Psi		Weld portion:H2/3D The other side of weld portion:H=1/3D	For Pipe NPS 2and under 90°X12D 180°X8D When order for close coiling	Specified respectively in size and grade(p=2st/D) The maximum pressure NPS 3≤P=2500Psi NPS>3:P=2800 Psi NDT and NDT (NPS 2 and over)	*ZN Coatng Weight: 500g/m² *Heat treatment on the weld seem area(GradeB)
30 (E=48t+15.00),t=(inch)		—	—	—	—
25 (E=40t+12.50),t=(inch)					
20 (E=32t+10.00),t=(inch)					
25		—	—	—	If necessary,Stress relieved,anneaeld
23					
21		$H=\frac{(1+e)t}{e+t/D}$ A:e=0.07 B:e=0.09 C:e=0.06			
23					
25					
23					
21					
23					
—		Weld portion: H=2/3D The other side of weld portion: H=1/2D	—	In accordance with the specified hydrotastic pressures or NDT	*ZN Coating Weight : 460g/m²(min)
30	25	H=2/3D	Outside Diameter 50mm and Under 90°X8D	—	—
23	18	H=2/3D	90°X6D		
15	10	H=7/8D	90°X6D		
23	18	H=7/8D	90°X6D		
20	16	H=7/8	90°X6D		

ASTM A500 GRADE A/B/C

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
1/2"×1/2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
5/8"×5/8"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
3/4"×3/4"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
1"×1"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
1 1/4"×1 1/4"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
1 1/2"×1 1/2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
2"×1"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
2"×1"	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
2"×2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.109	2.77	12
	0.120	3.05	11
	0.165	4.19	8
	0.180	4.57	7
2-1/2"×2-1/2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.109	2.77	12
	0.120	3.05	11
	0.165	4.19	8
	0.180	4.57	7
	0.083	2.11	14
3"×3"	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
3 1/2"×3 1/2"	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.083	2.11	14
4"×2"	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
4"×3"	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
4"×4"	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	

ASTM A500 GRADE A/B/C

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
5"×5"	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
6"×2"	0.120	3.05	11
6"×3"	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
6"×4" 6"×6"	0.313	7.95	
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
7"×7" 8"×4"	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
8"×6" 8"×8"	0.313	7.95	
	0.375	9.50	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
10"×4"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
10"×6"	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
10"×10"	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
12"×4"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
12"×8"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
12"×12"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
14"×14"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	0.180	4.57	7
	0.250	6.35	
16"×16"	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	0.180	4.57	7
	0.250	6.35	
20"×20"	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	0.180	4.57	7
	0.250	6.35	
24"×24"	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	=		

Dimension: 2/5"×2/5"-24"×24"(inch)

Thickness: 0.5-18(mm)

Length: 100-12000(mm)

ASTM A53 GRADE A/B/C

Nominal Diameter		Outerside Diameter		Sch. No	Wall Thickness		Nominal Weight	
NPS	DN	inch	mm		inch	mm	lb/ft	kg/m
1/ 2	15	0.84	21.3	40	0, 109	2, 77	0, 85	1, 27
	15	0.84	21.3	80	0, 147	3, 73	1, 09	1, 62
	15	0.84	21.3	160	0, 188	4, 78	1, 31	1, 95
	15	0.84	21.3	-	0, 294	7.47	1, 72	2.55
3/4	20	1.05	26.7	40	0, 113	2, 87	1, 13	1, 69
	20	1.05	26.7	80	0, 154	3, 91	1, 48	2, 20
	20	1.05	26.7	160	0, 219	5, 56	1, 95	2, 90
	20	1.05	26.7	-	0, 308	7.82	2, 44	3.64
1	25	1.315	33.4	40	0, 133	3, 38	1, 68	2, 50
	25	1.315	33.4	80	0, 179	4, 55	2, 17	3, 24
	25	1.315	33.4	160	0, 25	6, 35	2, 85	4, 24
	25	1.315	33.4	-	0, 358	9.09	3, 66	5.45
1 1/4	32	1.66	42.2	40	0, 14	3, 56	2, 27	3, 39
	32	1.66	42.2	80	0, 191	4, 85	3	4, 47
	32	1.66	42.2	160	0, 25	6, 35	3, 77	5, 61
	32	1.66	42.2	-	0, 382	9, 70	5, 22	7, 77
1 1/2	40	1.90	48.3	40	0, 145	3, 68	2, 72	4, 05
	40	1.90	48.3	80	0, 20	5, 08	3, 63	5, 41
	40	1.90	48.3	160	0, 281	7, 14	4, 86	7, 25
	40	1.90	48.3	-	0, 40	10, 15	6, 41	9, 55
2	50	2.375	60.3	40	0, 154	3, 91	3, 66	5, 44
	50	2.375	60.3	80	0, 218	5, 54	5, 03	7, 48
	50	2.375	60.3	160	0, 344	8, 74	7, 47	11, 11
	50	2.375	60.3	-	0, 436	11, 07	9, 04	13, 44
2 1/2	65	2.875	73	40	0, 203	5, 16	5, 8	8, 63
	65	2.875	73	80	0, 276	7, 01	7, 67	11, 41
	65	2.875	73	160	0, 375	9, 53	10, 02	14, 92
	65	2.875	73	-	0, 552	14, 02	13, 71	20, 39
3	80	3.50	88.9	40	0, 216	5, 49	7, 58	11, 29
	80	3.50	88.9	80	0, 30	7, 62	10, 26	15, 27
	80	3.50	88.9	160	0, 438	11, 13	14, 34	21, 35
3 1/2	90	4.00	101.6	40	0, 226	5, 74	9, 12	13, 57
	90	4.00	101.6	80	0, 318	8, 08	12, 52	18, 64
4	100	4.50	114.3	40	0, 237	6, 02	10, 80	16, 08
	100	4.50	114.3	80	0, 337	8, 56	15, 00	22, 32
	100	4.50	114.3	160	0, 531	13, 49	22, 53	33, 54
5	125	5.563	141.3	40	0, 258	6, 55	14, 63	21, 77
	125	5.563	141.3	80	0, 375	9, 53	20, 80	30, 97
	125	5.563	141.3	160	0, 625	15, 88	32, 99	49, 12
6	150	6.625	168.3	40	0, 280	7, 11	18, 99	28, 26
	150	6.625	168.3	80	0, 432	10, 97	28, 60	42, 56
	150	6.625	168.3	160	0, 719	18, 26	45, 39	67, 57
8	200	8.625	219.1	20	0, 250	6, 35	22, 38	33, 32
	200	8.625	219.1	40	0, 322	8, 18	28, 58	42, 55
	200	8.625	219.1	80	0, 500	12, 7	43, 43	64, 64
	200	8.625	219.1	160	0, 906	23, 01	74, 76	111, 27

BS 1387-1985 / BS EN10255

Tube			Outside Dia Black/galvanized Tube						Weight Of Black/galvanized Tube				Pieces Per Bundle
	Size		Minimum		Maximum		Wall Thickness		Plain Ends		Screwde&socketed		
	inch	DN	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
Light	1/ 2"	15	0.825	21.0	0.841	21.4	0.079	2.0	0.289	0.947	0.291	0.956	153
	3/ 4"	20	1.041	26.4	1.059	26.9	0.091	2.3	0.421	1.38	0.424	1.39	127
	1"	25	1.309	33.2	1.328	33.8	0.102	2.6	0.603	1.98	0.61	2.00	91
	1 1/ 4"	32	1.650	41.9	1.670	42.5	0.102	2.6	0.774	2.54	0.783	2.57	61
	1 1/ 2"	40	1.882	47.8	1.903	48.4	0.114	2.9	0.985	3.23	0.997	3.27	61
	2"	50	2.347	59.6	2.370	60.2	0.114	2.9	1.24	4.08	1.26	4.15	37
	2 1/ 2"	65	2.960	75.2	2.991	76	0.126	3.2	1.74	5.71	1.78	5.83	37
	3"	80	3.460	87.9	3.491	88.7	0.126	3.2	2.05	6.72	2.1	6.59	19
	4"	100	4.450	110.0	4.481	113.9	0.142	3.6	2.97	9.75	3.05	10.00	19
Medium	1/ 2"	15	0.831	21.1	0.856	21.7	0.102	2.6	0.369	1.21	0.372	1.22	127
	3/ 4"	20	1.047	26.6	1.072	27.2	0.102	2.6	0.475	1.56	0.479	1.57	101
	1"	25	1.316	33.4	1.346	34.2	0.126	3.2	0.735	2.41	0.741	2.43	61
	1 1/ 4"	32	1.657	42.1	1.687	42.9	0.126	3.2	0.945	3.10	0.954	3.13	51
	1 1/ 2"	40	1.889	48.0	1.919	48.8	0.126	3.2	1.09	3.57	1.10	3.61	44
	2"	50	2.354	59.8	2.394	60.8	0.142	3.6	1.53	5.03	1.55	5.10	29
	2 1/ 2"	65	2.969	75.4	3.014	76.6	0.142	3.6	1.96	6.43	1.99	6.55	24
	3"	80	3.469	88.1	3.524	89.5	0.157	4.0	2.55	8.37	2.6	8.54	19
	4"	100	4.459	113.3	4.524	114.9	0.177	4.5	3.72	12.2	3.81	12.5	14
	5"	125	5.461	138.7	5.535	140.6	0.197	5.0	5.06	16.6	5.21	17.1	10
	6"	150	6.460	164.1	6.539	166.1	0.197	5.0	6.00	19.7	6.19	20.3	7
Heavy	1/ 2"	15	0.831	21.1	0.856	21.7	0.126	3.2	0.439	1.44	0.442	1.45	127
	3/ 4"	20	1.047	26.6	1.072	27.2	0.126	3.2	0.570	1.87	0.573	1.88	101
	1"	25	1.316	33.4	1.346	34.2	0.157	4.0	0.896	2.94	0.902	2.96	61
	1 1/ 4"	32	1.657	42.1	1.687	42.9	0.157	4.0	1.16	3.80	1.17	3.83	51
	1 1/ 2"	40	1.889	48.0	1.919	48.8	0.157	4.0	1.33	4.38	1.35	4.42	44
	2"	50	2.354	59.8	2.394	60.8	0.177	4.5	1.89	6.19	1.91	6.26	29
	2 1/ 2"	65	2.969	75.4	3.014	76.6	0.177	4.5	2.42	7.93	2.45	8.05	24
	3"	80	3.469	88.1	3.524	89.5	0.197	5.0	3.14	10.3	3.2	10.5	19
	4"	100	4.459	113.3	4.524	114.9	0.212	5.4	4.42	14.5	4.51	14.8	14
	5"	125	5.461	138.7	5.535	140.6	0.212	5.4	5.46	17.9	5.61	18.4	10
	6"	150	6.460	164.1	6.539	166.1	0.212	5.4	6.49	21.3	6.67	21.9	7

ASTM A795 Black and Hot dipped Zinc-Coated, Welded Steel Pipe for Fire Protection Use

Dimensions, Weights, and Test Pressures For Light-Weight Fire Protection Pipe-Schedule 10

NPS Designator	Outerside Diameter		Nominal Wall Thickness		Weight Plain End		Test Pressure Electric Resistance Weld	
	inch	mm	inch	mm	lb/ft	kg/m	psi	Mpa
3/4	1.050	(26.7)	0.083	(2.11)	0.86	(1.28)	700	(4.83)
1	1.315	(33.4)	0.109	(2.77)	1.41	(2.09)	700	(4.83)
1 1/4	1. 660	(42.2)	0.109	(2.77)	1.81	(2.69)	1000	(6.89)
1 1/2	1.900	(48.3)	0.109	(2.77)	2.09	(3.11)	1000	(6.89)
2	2. 375	(60.3)	0.109	(2.77)	2.64	(3.93)	1000	(6.89)
2 1/2	2.875	(73.0)	0.120	(3.05)	3.53	(5.26)	1000	(6.89)
3	3.500	(88.9)	0.120	(3.05)	4.34	(6.46)	1000	(6.89)
3 1/2	4.000	(101.6)	0.120	(3.05)	4.98	(7.41)	1200	(8.27)
4	4.500	(114.3)	0.120	(3.05)	5.62	(8.37)	1200	(3.05)
5	5.563	(141.3)	0.134	(3.40)	7.78	(11.58)	1200	(3.40)
6	6.625	(168.3)	0.134	(3.40)	9.30	(13.85)	1000	(3.40)
8	8.625	(219.1)	0.188	(4.78)	16.96	(25.26)	800	(4.78)
10	10.750	(273.1)	0.188	(4.78)	21.23	(31.26)	700	(4.78)

Dimensions, Weights, and Test Pressures For Light-Weight Fire Protection Pipe-Schedule 30 and Schedule 40

NPS Designator	Outerside Diameter		Nominal Wall Thickness		Weight Plain End		Weight Plain and Couplings		Test Pressure Electric Resistance Weld	
	inch	mm	inch	mm	lb/ft	kg/m	lb/ft	kg/m	psi	Mpa
1/2	0.840	(21.3)	0.109	(2.77)	0.850	(1.27)	0.85	(1.27)	700	(4.83)
3/4	1.050	(26.7)	0.113	(2.87)	1.130	(1.69)	1.13	(1.68)	700	(4.83)
1	1.315	(33.4)	0.133	(3.38)	1.680	(2.50)	1.68	(2.50)	700	(4.83)
1 1/4	1.660	(42.2)	0.140	(3.56)	2.270	(3.39)	2.28	(3.40)	1000	(6.89)
1 1/2	1.900	(48.3)	0.145	(3.68)	2.720	(4.05)	2.73	(4.07)	1000	(6.89)
2	2.375	(60.3)	0.154	(3.91)	3.660	(5.45)	3.69	(5.50)	1000	(6.89)
2 1/2	2.875	(73.0)	0.203	(5.16)	5.880	(8.64)	5.83	(8.68)	1000	(6.89)
3	3.500	(88.9)	0.216	(5.49)	7.580	(11.29)	7.62	(11.35)	1000	(6.89)
3 1/2	4.000	(101.6)	0.226	(5.74)	9.120	(13.58)	9.21	(13.71)	1200	(8.27)
4	4.500	(114.3)	0.237	(6.02)	10.80	(16.09)	10.91	(16.25)	1200	(8.27)
5	5.563	(141.3)	0.258	(6.55)	14.63	(21.79)	14.82	(22.07)	1200	(8.27)
6	6.625	(168.3)	0.280	(7.11)	18.99	(28.29)	19.20	(28.60)	1200	(8.27)
8	8.625	(219.1)	0.277	(7.04)	24.72	(36.82)	25.57	(38.09)	1200	(8.27)
10	10.750	(273.1)	0.307	(7.80)	34.72	(51.05)	35.78	(53.29)	1000	(6.89)

ANSI C80.1&UL 6 Rigid Stell Conduit.Zinc Coated

[ANSI&UL 6]

Nominal Size	Nominal Inside Diameter		Outside Diameter		Nominal Wall Thickness		Length Without Coupling		Minimum weight of Ten Unit Lengths with Couplings Attached	
inch	inch	mm	inch	mm	inch	mm	ft&in	m	lb	kg
1/2	0.632	16.1	0.840	21.3	0.104	2.64	9'11 1/4"	3.03	79.0	35.83
3/4	0.836	21.2	1.050	26.7	0.107	2.72	9'11 1/4"	3.03	105.0	47.63
1	1.063	27.0	1.315	33.4	0.126	3.20	9'11"	3.02	153.0	69.40
1 1/4	1.394	35.4	1.660	42.2	0.133	3.38	9'11"	3.02	201.0	91.17
1 1/2	1.624	41.2	1.900	48.3	0.138	3.51	9'11"	3.02	249.0	112.95
2	2.083	52.9	2.375	60.3	0.146	3.71	9'11"	3.02	332.0	150.60
2 1/2	2.489	63.2	2.875	73.0	0.193	4.90	9'11 1/2"	3.01	527.0	239.05
3	3.090	78.5	3.500	88.9	0.205	5.21	9'11 1/2"	3.01	682.6	309.63
3 1/2	3.570	90.7	4.000	101.6	0.215	5.46	9'11 1/4"	3.00	831.0	376.94
4	4.050	102.9	4.500	114.3	0.225	5.72	9'11 1/4"	3.00	972.3	441.04
5	5.073	128.9	5.563	141.3	0.245	6.22	9'10"	3.00	1313.6	595.85
6	6.093	154.8	6.625	168.3	0.266	6.76	9'10"	3.00	1745.3	791.67

[UL 6 Rigid Metal Conduit]

Nominal Size	Nominal Inside Diameter		Outside Diameter		Nominal Wall Thickness		Length Without Coupling		Minimum acceptable weight of ten lengths of finished conduit with one coupling attached to each length	
inch	inch	mm	inch	mm	inch	mm	ft&in	m	lb	kg
1/2	0.632	16.05	0.840	21.34	0.104	2.64	9'11 1/4"	3.030	79.0	35.83
3/4	0.836	21.23	1.050	26.67	0.107	2.72	9'11 1/4"	3.030	105.0	47.63
1	1.063	27.00	1.315	33.40	0.126	3.20	9'11"	3.025	153.0	69.40
1 1/4	1.394	35.41	1.660	42.16	0.133	3.38	9'11"	3.025	201.0	91.17
1 1/2	1.624	41.25	1.900	48.26	0.138	3.51	9'11"	3.025	249.0	112.95
2	2.083	52.91	2.375	60.33	0.146	3.71	9'11"	3.025	332.0	150.59
2 1/2	2.489	63.22	2.875	73.03	0.193	4.90	9'11 1/2"	3.010	527.0	239.04
3	3.090	78.49	3.500	88.90	0.205	5.21	9'11 1/2"	3.010	682.6	309.62
3 1/2	3.570	90.68	4.000	101.60	0.215	5.46	9'11 1/4"	3.005	831.0	376.94
4	4.050	102.87	4.500	114.30	0.225	5.72	9'11 1/4"	3.005	972.3	441.03
5	5.073	128.85	5.563	141.30	0.245	6.22	9'10"	2.995	1313.6	595.85
6	6.093	154.76	6.625	168.28	0.266	6.76	9'10"	2.995	1745.3	791.67

API 5L-2012 Specification for Line Pipe

Specifications		Application	Chemical Requirement(%)						Physical Requirement	
			C (MAX)	Si (MAX)	Mn (MAX)	P (MAX)	S (MAX)	Others	Tensile Strength Min MPa(Psi)	Yield Strength Min MPa(Psi)
API 5L (PSL 1)	L175(A25)	Line Pipe	0.21	0.50	0.60	—	—	—	310MPa (45000 psi)	175MPa (25400 psi)
	L175P(A25P)			—		0.030	0.030	—	310MPa (45000 psi)	175MPa (25400 psi)
	L210(A)		0.22		0. 90	0.045-0.080		—	335MPa (48600 psi)	210MPa (30500 psi)
	L245(B)		0.26		1.20	0.030		—	415MPa (60200 psi)	290MPa (42100 psi)
	L290(X42)				1.30			—	415MPa (60200 psi)	320MPa (46400 psi)
	L320(X46)				1.40			—	435MPa (63100 psi)	290MPa (42100 psi)
	L360(X52)							—	460MPa (66700 psi)	360MPa (46400 psi)
	L360(X56)							—	490MPa (71100 psi)	390MPa (56600 psi)
	L415(X60)							—	520MPa (75400 psi)	415MPa (60200 psi)
	L450(X65)				1.45	—	—	—	535MPa (77600 psi)	450MPa (65300 psi)
	L480(X70)				1.65	—	—	—	570MPa (82700 psi)	465MPa (70300 psi)
API 5L (PSL 2)	L245M(BM)	Line Pipe	0.22	—	1.20	0.025	0.015	CE(PCM) ≤0.25% CE(IIW) ≤0.43%	415-760MPa (60200-110200 psi)	245-450MPa (35500-65300 psi)
	L290M(X42M)				1.30				415-760MPa (60200-110200 psi)	290-495MPa (42100-71800 psi)
	L320M(X46M)				1.40				435-760MPa (60100-110200psi)	320-525MPa (46400-76100 psi)
	L360M(X52M)								460-760MPa (66700-110200 psi)	360-530MPa (52200-76900 psi)
	L390M(X56M)								490-760MPa (71100-110200 psi)	390-545MPa (56600-79000 psi)
	L415M(X60M)								490-760MPa (71100-110200 psi)	390-545MPa (56600-79000 psi)
	L460M(X66M)				1.45				520-760MPa (75400-110200psi)	415-565MPa (60200-81900 psi)
	L485M(X70M)				1.65				520-760MPa (82700-110200psi)	485-635MPa (70300-81900 psi)
	L555M(X80M)				1.85				625-825MPa (90600-119700psi)	555-705MPa (80500-102300 psi)
API 5CT	J-55	Casing & Tubing	—	—	—	0.03	0.03	—	517 MPa(75000 psi)	379-552MPa (55000-80000 psi)
	K-55		—	—	—				655 MPa(95000 psi)	379-552MPa (55000-80000 psi)
	N-80		—	—	—				689MPa(100000 psi)	552-758MPa (80000-11000 psi)
	L-80		—	—	—				655MPa(95000 psi)	552-665MPa (80000-95000 psi)
	P-110		—	—	—				862MPa(125000 psi)	758-965MPa (110000-14000 psi)

Elongation Min(%)		Flattening Test	Bend Test	Hydrostatic & NDT	Others
Longitudinal Direction	Transverse Direction				
$e=625{,}000 \times \frac{A^{0.2}}{U^{0.9}}$ e:minimum elongation in 2 in(50.8mm) A:Cross - Sectional area of the test specimen in sq in U:Specified minium ultimate tensile strength in Psi		Weld portion:3/4D The other side of weld portion: H=3/5D	2 ⅞ and Smaller 90° X12D	$P=\frac{2st}{D}$ P=hydrostatic test Pressure(psi) S=fiber stress, equal to a percentage of specified min. yield strength for the various sizes as shown in the tabulation below.(psi) I=Specified thickness(inch) D=Outside Diameter (inch) and NDT	*Heat treatment on the weld Seam area *Metallographic Examination *Fracture Toughness Test(PSL2)
		Weld portion:H=2/3D The other side of weld portion:1/3D Weld ductility Test $H=\frac{3.07t}{0.07+3t/D}$ less than X 52 $H=\frac{3.05t}{0.05+3t/D}$ X 52 and higher	—		

Grade	Size Designation	(percent of specified min,yield stress) standard Test Pressure	Alternate Test Pressure
A25	5 9/16	60	—
A	2 3/8 and larger	60	75
B		60	75
X42-X80	5 9/16 and smaller	60	75
	6 5/8 and 8 5/8	75	75
	10 3/4 to 18 ind	85	85
	20 and larger	90	90

$e=625{,}000 \times \frac{A^{0.2}}{U^{0.9}}$ e:minimum elongation in 2 in(50.8mm) A:Cross - Sectional area of the test specimen in sq in U:Specified minium ultimate tensile strength in Psi		D/t≥16,H=0.5D D/t＜16,H=D(0.83-0.0206 D/t)	—	P=2(f x Yp x t)/D and NDT. P=hydrotastic test pressure in psi. f=a factor of 0.6 or 0.8, Yp=specified yield strength for the pipebody in psi t=specified wall thickness in inch D=Specified Outside diameter in inch Factor f	*Heat treatment on the weld seam area *Fracture Toughness Test
		9≤D/t≤28,H=D(1.074-0.0194 D/t)			
		HD=D(1.086-0.0163 D/t)			

	size	H40	J55,K55	L80,N80
Standard Test pressures	10 3/4 <	0.8	0.8	0.8
	> 10 3/4	0.6	0.6	0.8
Alternate Test pressures	All size	0.8	0.8	—

产品应用
PRODUC APPLICATION

造船
Shipbuilding

集装箱
Container

核电
Nuclear Power

交通运输
Transportation

农业
Agriculture

桥梁
Bridge

汽车制造
Automobile Making

机械
Machinery

建筑业
Construction

检验试验

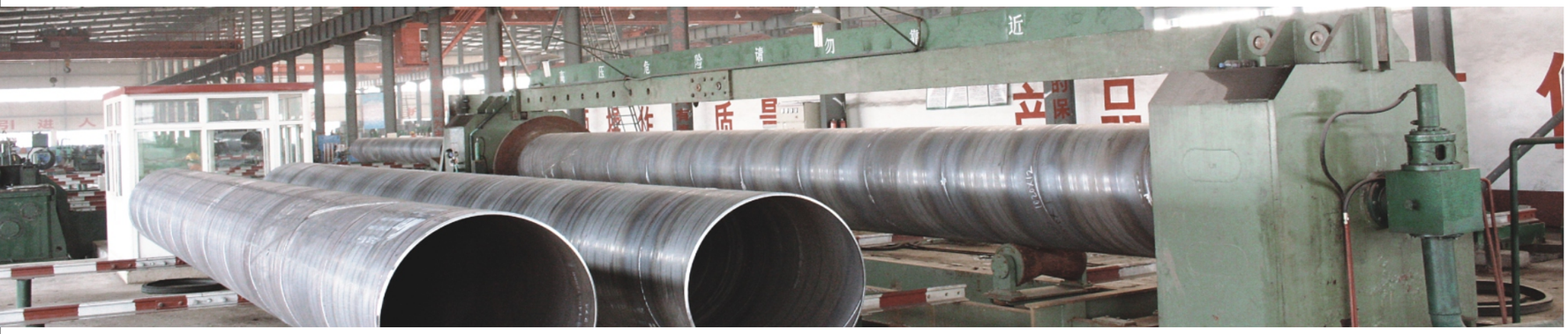
TEST EQUIPMENT

产品品质的保障，取决于完善的质量管理体系和先进的检测设备。正大制管在严格遵循ISO9001–2015质量管理体系的同时，量身定做了适合自己的独特的质量检验方案，从原材料入厂、生产工艺、产品入库、产品运输、售后检测等各个环节都有科学严密的、苛刻的控制措施。与此同时，公司引进德国直读光谱仪、金相分析仪、电液伺服万能试验机、X光射线探伤、超声波无损探伤仪、水压机等国际国内先进的检测设备，对原材料严格把关，对产品全程监控，确保了正大“天虹”、“吉立”钢管的优良品质。

Rigorous quality management system and high–tech test device can insure the products quality. During our produce, besides abiding by ISO9001–2015, we also have our own quality control system to follow. We have strict control management from material, workmanship, storage, delivery and test. We bring direct–reading spectrometer, HX–MIAS, Electro–hydraulic universal testing machines, X–ray flaw detection, Ultrasonic nondestructive flaw detector, hydraulic press and other test device. Strick material gatekeeping, entire control of product processing guarantee "Tianhong","Jili" pipe quality.

X光射线无损检测
Non-Destructive Testing of X-Ray

直读光谱仪分析钢铁化学成分
Analysis of Steel Chemical Composition



静水压试验机
Hydrostatic Pressure Testing Machine

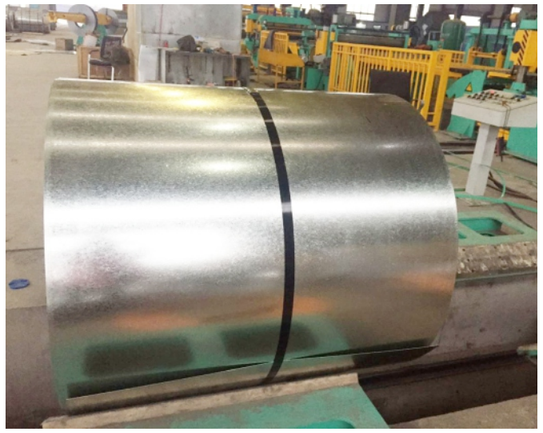
螺旋管全自动水压试验
Fully -Automatic Hydrostatic Testing of SSAW Steel Pipe

电液伺服万能试验机钢铁拉伸试验
Steel Tensile of Electro-Hydraulic Universal Testing Machines

金相分析仪
Metallographic Analyzer

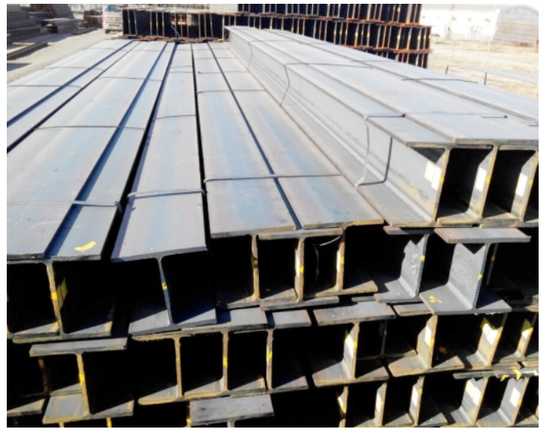
其他钢材产品
OTHER STEEL PRODUCTS

Deformed Rebar

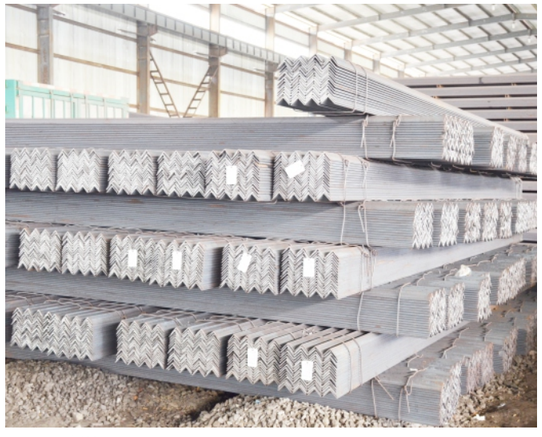


Galvanized Steel Coil

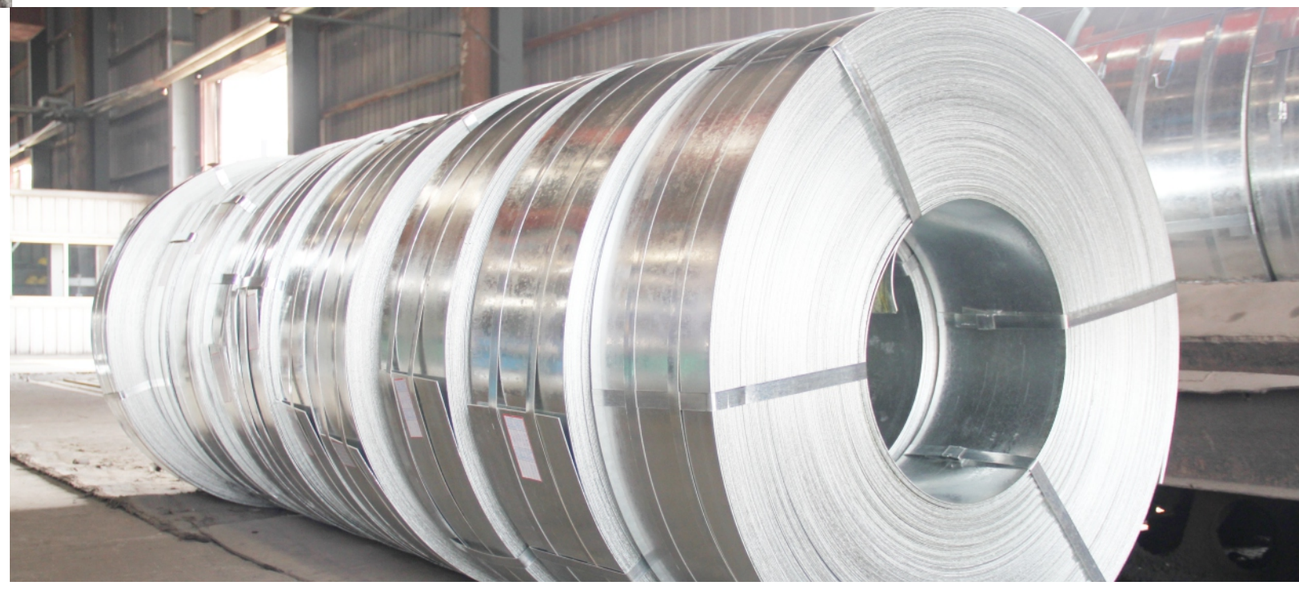
Hot Rolled Coil



H Beam



Angel Steel



Galvanized Steel Strip

工程案例

PROJECT SAMPLES

“精诚所至，金石为开”。正大人不懈的努力，得到了社会各界的认可，赢得了全国广大客户的信赖。“天虹”品牌优质的热镀锌钢管、螺旋焊钢管、方矩形钢管、钢塑复合管，先后参与了国家级、省市级诸多重点工程的建设。

"Complete sincerity can affect even metal and stone", Zhengda people'shardworking receive praise from all the industry from society, and gain the trust from nationwide clients. "Tianhong"qualified galvanized pipe, spiral pipe, square and rectangular pipe, steel–plastic composites pipe were used in major construction projects of nation, province and city.

北京大兴国际机场
Beijing Daxing International Airport

上海环球金融中心
Shanghai World Financial Center

长沙金桥国际市场集群
Changsha Jinqiao International Market Cluster

上海虹桥站
Shanghai Hongqiao Station

上海世博会
Shanghai EXPO

石家庄地铁1号线
Shijiazhuang Metro Line 1

亚洲基础设施投资银行
Asian Infrastructure Investment Bank

杭州国际会议中心
Hangzhou International Conference Center

郑州金水科教园区金科·智汇谷
Zhengzhou Jinshui Science and Education Park Jinke·Zhihui Valley

山东泰安恒大城
Shandong TaiAn-Hengda City

山东液化天然气(LNG)项目
Shandong (LNG) Project

南昌飞机场
Nanchang Airport

水立方
The Water Cube

郑州金融产业园
Zhengzhou Financial Industry Park

石武高铁
Shi Wu High-Speed Rail

邯郸立交桥
Handan Overpass

山西液化天然气(LNG)项目
Shanxi Liquefied Natural Gas (LNG) Project

山西大运汽车制造
Shanxi Dayun Manufacturing of Automobiles

内蒙古煤化工项目
Neimenggu Coal Chemical Project

南京长江隧道
Nanjing Yangtze River Tunnel

南京南站
Nanjing South Station

河南城际铁路黄河桥工程
The Yellow River Henan Intercity Railway Bridge Engineering

长沙国家广告产业园
Changsha National Advertising Industry Park

长沙贺龙体育场
Changsha Helong Sports Stadium

武汉长江隧道
Wuhan Yangtze River Tunnel

三峡大坝
The Three Gorges Dam

大连造船项目
Dalian Shipbuilding Project

长春恒大城居民区
Changchun Hengda City Neighborhood

吉林市松花江大桥
Jilin Songhua River Bridge

吉林省大唐热电
Datang Jilin Thermoelectric

沈阳万科金域蓝湾
Shenyang Wanke Golden Mile Island

沈阳阳光100国际新城
Shenyang Sunshine 100 International New Town

沈阳保利海上五月花居民区
Shenyang Bao Li Hai on Mayflower Neighborhood

沈阳碧桂园银河城
Shenyang Country Garden Galaxy City

事实胜于雄辩，以成功而优秀的工程案例作为雄厚实力的完美验证。

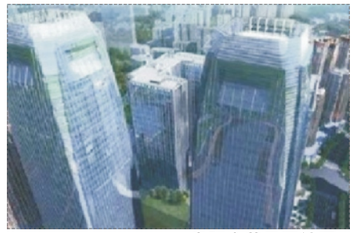
Facts Speak Louder Than Words, Success and Excellent Engineering Can Prove We Have a Solid Strength.

重庆江北区寰宇天下
Chongqing Jiangbei District

重庆北嘴紫御江山小区
Chongqing Jiangbei District
Beizui Royal Purple Jiangshan Residential Areas

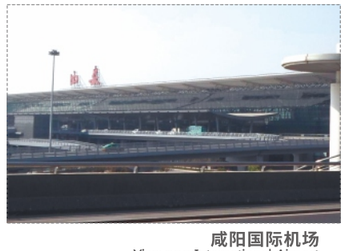
西安地铁一号线
Xi'an Metro Line 1

贵州省农村安全饮用水项目
Guizhou Rural Drinking Water Safety Project



贵阳市花果园社区
Guiyang Flower Garden Community

引子渡水电站
Yinzidu Hydropower Station



咸阳国际机场
Xianyang International Airport

南水北调工程
The South to North Water Diversion Project

长春恒大城居民区
Changchun Hengda City Neighborhood

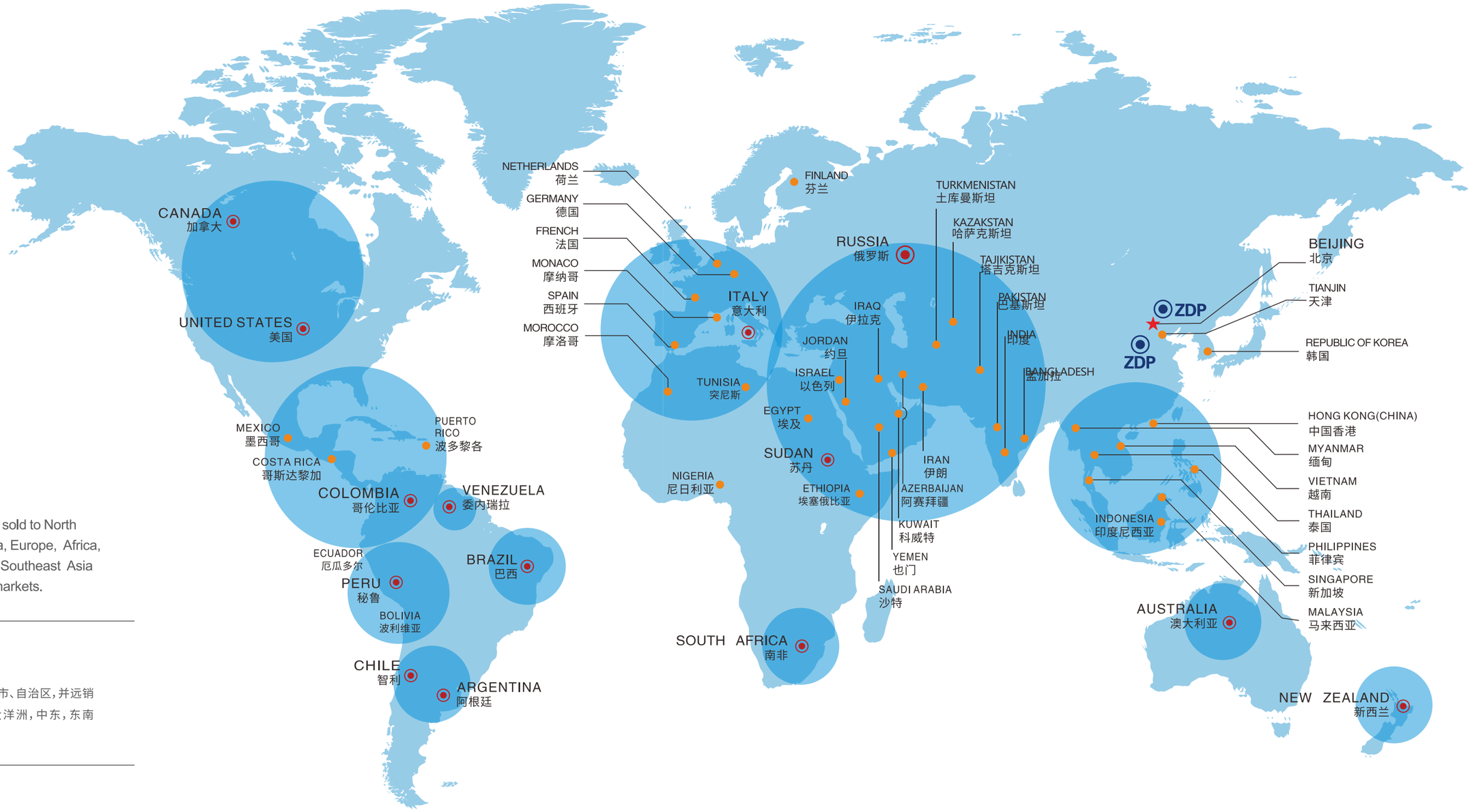
万达地产项目
Wanda Real Estate Projects

MARKET

Our products have been sold to North America, South America, Europe, Africa, Oceania, Middle East, Southeast Asia and other international markets.

市场分部

公司产品销往国内28个省、市、自治区，并远销北美，南美，欧洲，非洲，大洋洲，中东，东南亚等国家和地区。



机械制造
Mechanical Structure

建筑行业
Construction

脚手架
Scaffolding

农业大棚
Greenhouse

汽车制造
Automotive Industry

桥梁建设
Bridge Building