华洋钢管
HUAYANG STEEL PIPE

中国大型直缝钢管生产商

2024

深加工手册
Deep Processing Handbook



追求卓越品质
PURSUIT OF EXCELLENT QUALITY

创新民族品牌
INNOVATE NATIONAL BRANDS

打造百年华洋
CREATE A CENTURY-OLD HUAYANG

河北华洋

关于华洋 /COMPANY PROFILE



河北华洋钢管有限公司公司创建于2005年，注册资金5亿元，公司占地面积1000余亩，固定资产12亿元，年销售收入近100亿元，现有员工600余人。”华洋牌”高频直缝焊钢管被评为“河北省名牌产品”，年生产能力可达200多万吨，2024年河北华洋钢管有限公司荣获河北省百强民营企业（69位），河北省百强制造业（57位）荣誉称号。

公司现有17条新型的自动化钢管生产线，Φ76-Φ630高频直缝焊钢管生产线14条、Φ406-Φ1422直缝双面埋弧焊钢管生产线3条，公司具有先进的理化实验室，可承担钢管的各项物理及化学检测试验。公司先后取得了ISO9001质量管理体系认证、ISO14001环境管理体系认证、ISO14001职业健康安全管理体系认证、特种设备制造许可证、API 5L和API 2B认证证书、欧盟CE认证、俄罗斯GOST认证、中海油入网证、安全生产标准化二级企业等标准质量体系认证。公司主要产品有：Φ76-Φ630mm，壁厚2.5-20mm高频直缝焊钢管，Φ406-1422mm、壁厚9-50mm双面埋弧焊钢管，并可根据用户需要生产各种型号、规格、材质、长度的高频直缝焊管、双面直缝埋弧焊钢管。

公司产品主要用于石油、天然气、水、蒸汽、煤气等高、中、低压流体输送管道及打桩、桥梁、建筑等结构用钢管，并承担了国内外标志性工程建设，华洋作为一个综合型生产企业，下设河北铭高贸易有限公司，以及在天津、石家庄、山东、四川、广州等地设立有3家分公司和5个办事处。产品销往各个城市并出口东南亚、中东、欧美等八十多个地区，在国内外享有很高的声誉。

Founded in 2005, Hebei Huayang Steel Pipe Co.,Ltd. has a registered capital of 500 million RMB (71.4 million USD), covering an area of 666.667 square meters. Besides, we have fixed assets of 1.2 billion RMB (180 million USD), annual sales revenue of nearly 10 billion RMB (1.5 billion USD), and more than 600 employees. Huayang brand ERW welded steel pipe was rated as “Hebei Famous Brand Product”, and has an annual production capacity of 2 million tons. In 2024, Hebei Huayang Steel Pipe Co.,Ltd. won 69th place among the top 100 private enterprises and ranked 57th in the top 100 manufacturing industries in Hebei Province, China.

Huayang currently has 17 new automated steel pipe production lines, 14 production lines of Φ76-Φ630 high-frequency straight seam welded steel pipes (ERW pipes) and 3 production lines of Φ406-Φ1422 straight seam double-sided submerged arc welded steel pipes (LSAW pipes). Huayang has an advanced inspection and test center, which can conduct various physical and chemical tests of steel pipes. We have successively obtained ISO 9001 Quality Management System Certificate, ISO 14001 Environmental Management System Certificate, ISO 45001 Occupational Health and Safety Management System Certificate, Production License of Special Equipment, API 5L and API 2B Certificates, EU CE Certificate, CNOOC Network Access Certificate, Safety Production Standardization Level 2 Enterprise and other standard quality system certificates.Huayang main products include: high-frequency straight seam welded steel pipes (ERW pipes) with a thickness of 2.5-20mm, and double-sided submerged arc welded steel pipes (LSAW pipes) with a thickness of 9-50mm. We can also produce various models, specifications, materials, and lengths of high-frequency straight seam welded pipes and double-sided submerged arc welded steel pipes according to user needs.

Huayang steel pipes are widely used for high, medium, and low-pressure fluid transmission pipelines such as oil, natural gas, water, steam, and gas, as well as structural steel pipes for piling, bridges, and buildings, and Huayang steel pipes undertaken the construction of landmark projects both domestically and internationally. As a comprehensive production enterprise, Huayang has established Hebei Wingo Enterprise Co.,Ltd., as well as 3 branches and 5 offices in Tianjin, Shijiazhuang, Shandong, Sichuan, Guangzhou and other places. We exported to more than 80 regions such as Southeast Asia, the Middle East, South America, Europe and America. “Huayang” brand steel pipe has gained praise and a high reputation worldwide.

CONTENTS
目录

01 STEEL PIPE BUTT WELDING
钢管对焊

02 PIPING PREFABRICATION FLANGE WELDING
管道预制法兰焊接

03 STESWSTEEL SUPPORT WELDING AND PROCESSING
钢支撑焊接加工

04 STEEL SUPPORTED MOVABLE HEAD
钢支撑活动头

05 PIPE PILE CLUTCH WELDING
管桩锁扣焊接

06 WELDED STEEL PIPE WITH STEEL SHEET PILE TOGETHER
钢管与钢板桩焊接

07 STEEL STUD WELDING
钢构栓钉焊接

08 STEEL PLATE CUTTING BLANKING
钢板切割下料

河北华洋

09 MARKER POLES
标志杆

10 LATTICE STEEL COLUMN
格构式钢柱

11 STEEL PIPE NESTING AND REINFORCEMENT
钢管套装加固

12 PILE POLES
桩尖

13 PIPE CUTTING
切管

14 WELDING SYMBOL
电焊标

15 STEEL STRUCTURE OF THE WORKSHOP
厂房钢结构

16 STEEL PIPE HOOPS
钢管管箍

华洋钢管 HUAYANG STEEL PIPE 中国大型直缝钢管生产商

河北华洋

钢管对焊
Steel pipe butt welding

对焊钢管是指通过对接两根钢管的焊接方式来连接它们的工艺。对焊钢管通常用于管道系统、输水管道、输油管道、天然气管道等领域。

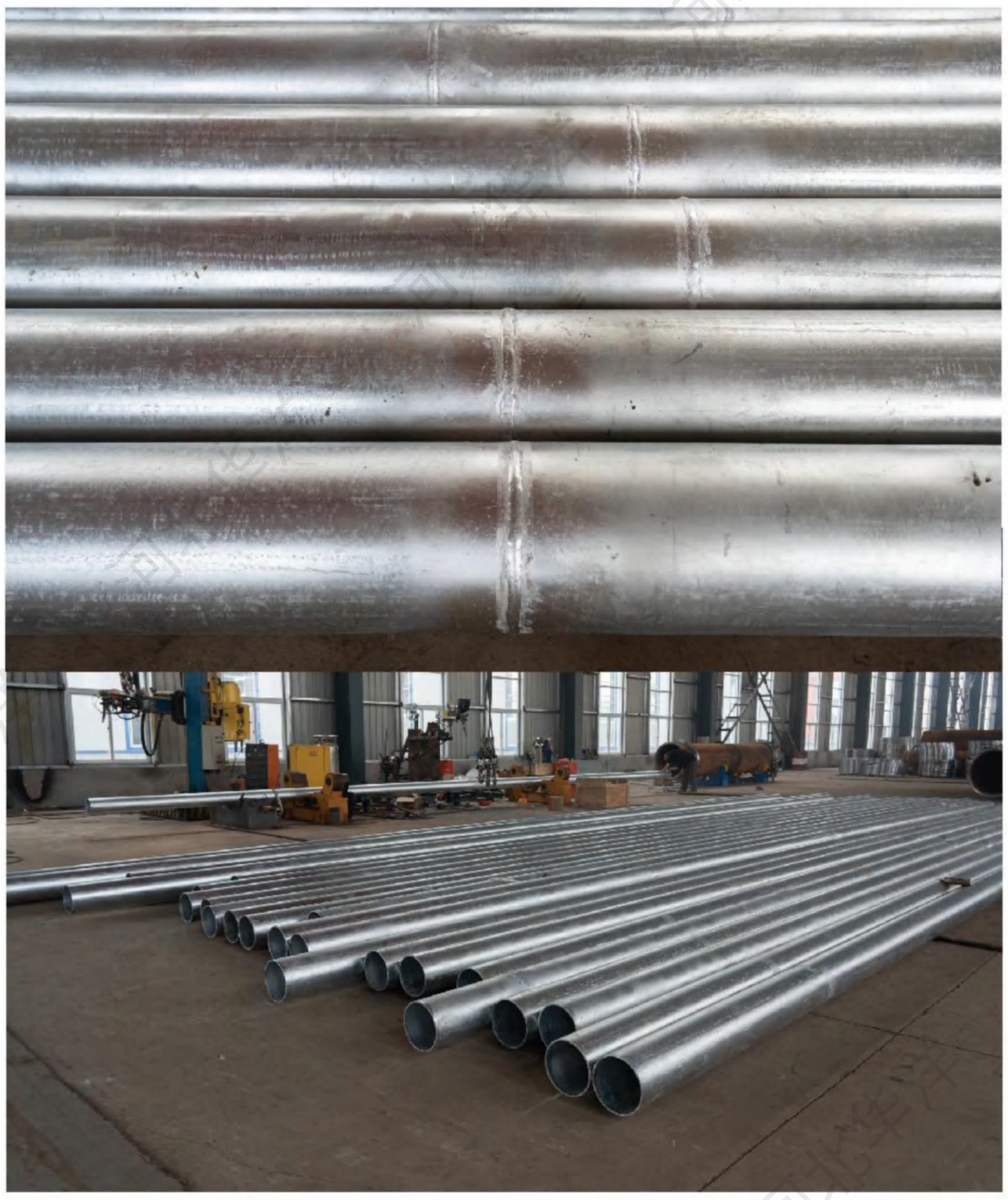
对焊钢管的生产工艺通常包括以下几个步骤：首先是原材料准备，选择合适的钢材进行切割、倒角、清洁等处理；然后是组装，将两根钢管对接在一起；接着是预热，通过加热来提高焊接的效果；最后是焊接，采用焊接设备进行对接焊接。

Butt-welded steel pipes refer to the process of connecting two steel pipes by butt welding. Butt-welded steel pipes are commonly used in pipeline systems, water pipelines, oil pipelines, natural gas pipelines, and other fields.

The production process of butt-welded steel pipes typically includes the following steps: First is raw material preparation, where suitable steel is selected and undergoes cutting, chamfering, cleaning, and other treatments. Then comes assembly, where two steel pipes are butt-jointed together. This is followed by preheating, which involves heating to enhance the welding effect. Finally, welding is performed using welding equipment to complete the butt joint.







钢管对焊技术能够实现最大口径达3米、最大长度达36米的钢管精准对接，即便钢管具有不同的厚度和材质。通过采用特定的焊接工艺和精心选择的焊接材料，可以确保不同属性钢管间的有效连接。在整个焊接过程中，特别注重对接环焊缝的质量控制，焊接完成后，将进行超声波探伤（UT）检测，以确保焊缝内部无缺陷，满足高标准的焊接质量要求。

Tube butt-welding technology enables the precise butt-welding of tubes with a maximum diameter of up to 3 meters and a maximum length of up to 36 meters, even if the tubes have different thicknesses and materials. Effective connection between steel pipes with different properties can be ensured by using specific welding processes and carefully selected welding materials. Throughout the welding process, special attention is paid to the quality control of the butt ring welds, and after the welding is completed, ultrasonic flaw detection (UT) testing will be performed to ensure that the welds are free of internal defects and that they meet the high standard of weld quality.

管道预制法兰焊接
Piping prefabrication flange welding

管道预制法兰焊接是一种专门用于管道连接的高精度焊接技术，它通过在管道两端预制法兰，再进行精确的焊接加工，确保了管道系统的可靠性和密封性，广泛应用于各种工业管道的安装与维护中。

Pipeline prefabricated flange welding is a high-precision welding technology specialized in pipeline connection, which ensures the reliability and sealing of the pipeline system by prefabricating flanges at both ends of the pipeline and then carrying out precise welding processing, and is widely used in the installation and maintenance of various industrial pipelines.



管道预制是指在特定地方将部分管道及弯头、法兰、三通等管件焊尺寸要求焊接好，工程安装时直接将焊接好的管段运到现场进行安装。

Pipeline prefabrication refers to the process of welding sections of pipes, elbows, flanges, tees, and other pipe fittings to specific size requirements at a designated location. During the construction installation, the pre-welded pipe sections are directly transported to the site for installation.



带颈平焊法兰

带颈平焊法兰全称带颈平焊钢制管法兰，是将钢管、管件等伸入法兰内通过角焊缝与设备或管道连接的法兰。因为有个短颈，从而提高了法兰的强度改善了法兰的承载力度。所以可以用于更高压力的管道上。

The full name of the necked slip-on flange is necked slip-on steel pipe flange. It is a flange that connects the steel pipe, pipe fittings, and equipment or pipeline through a fillet weld inside the flange. Due to the presence of a short neck, the strength of the flange is improved, enhancing its load-bearing capacity. Therefore, it can be used on pipelines with higher pressure.

活套法兰

活套法兰是指松套于容器或管道突缘的一种法兰。法兰是轴与轴之间相互连接的零件，用于管端之间的连接；也有用在设备进出口上的法兰，用于两个设备之间的连接。活套法兰属松式法兰。突缘可采用翻边、直接车出或另外焊接圆环等方式制成。优点是法兰变形时对容器或管道不产生附加力矩，制造方便，可采用与容器或管道不同的材料制造，便于节省贵重金属。缺点是法兰厚度较大。适用于容器或管道内衬有脆性材料且压力不高的场合。



The loose flange, also known as a slip-on flange, is a type of flange that slips over the rim of a container or pipe. A flange is a part used to connect two shafts together, often used for the connection between pipe ends; they are also used on the inlet and outlet of equipment for connecting two devices. The loose flange is a type of loose-type flange. The flange can be made by flanging, machining directly, or by welding a separate ring. Its advantages include not imposing additional torque on the container or pipe when the flange deforms, ease of manufacturing, and the ability to be made from materials different from the container or pipe, which helps in conserving expensive metals. The drawback is that the flange tends to be thicker. It is suitable for situations where the container or pipe is lined with brittle materials and the pressure is not high.

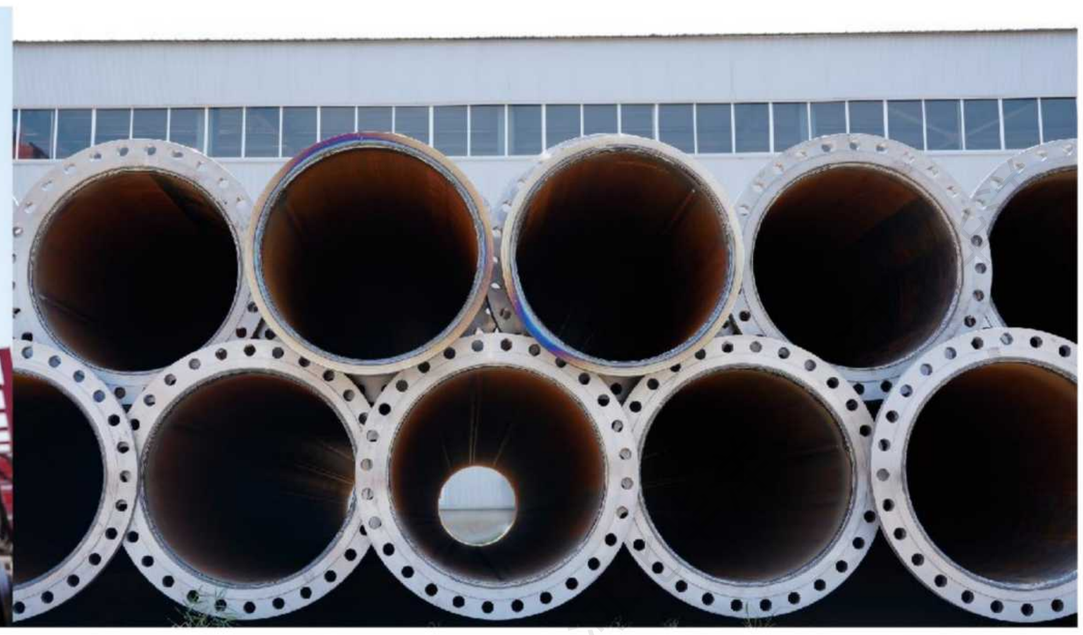
















钢支撑焊接加工

SteswSteel support welding and processing

钢支撑焊接加工是地铁建设中的重要环节，这些钢支撑经过精确的焊接工艺制成，长度多样，覆盖从0.5米到12米不等，以满足不同施工段和深度的需求，为地铁隧道的安全施工提供了坚实的结构保障。

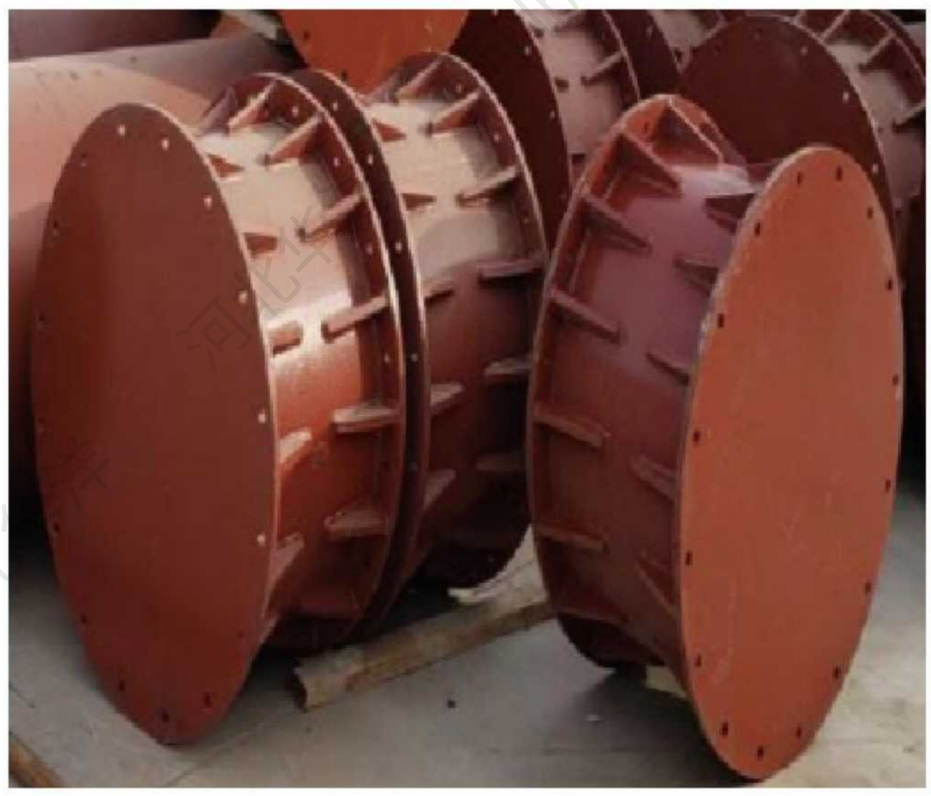
Steel support welding and fabrication is a crucial step in subway construction. These steel supports are produced through precise welding techniques and come in various lengths, ranging from 0.5 meters to 12 meters, to meet the requirements of different construction sections and depths. They provide a solid structural guarantee for the safe construction of subway tunnels.











钢支撑活动头
Steel supported movable head

钢支撑活动头是一种用于地上架空敷设管道支承的结构件，可以分为固定支架、导向支架、滑动支架、滚动支架等。它作为管道的支撑结构，根据管道的运转性能和布置要求，管架分成固定和活动两种。立杆采用套管承插连接，水平杆和斜杆采用杆端和接头卡入连接盘，用楔形插销连接，形成结构几何不变体系的钢管支架。

The steel support adjustable head is a structural component used for overhead pipeline support on the ground. It can be classified into fixed supports, guided supports, sliding supports, and rolling supports. As a support structure for pipelines, it is divided into fixed and movable types according to the operational performance and layout requirements of the pipeline. The vertical poles use sleeve socket connections, while the horizontal and diagonal poles are connected by inserting the pole ends and connectors into the connection plate, using wedge-shaped pins for connection, forming a geometrically stable steel pipe support system.



钢支撑活动头的设计使其具备可伸缩功能，这一特性使得施工人员能够根据实际需求灵活调节钢支撑的长度，从而适应不同施工环境和结构要求，大大提高了地铁等地下工程建设的效率和安全性。

The design of the steel support adjustable head incorporates an extendable feature, which allows construction workers to flexibly adjust the length of the steel support according to actual needs. This adaptability to different construction environments and structural requirements significantly enhances the efficiency and safety of underground construction projects such as subway systems.



钢制活络头具有以下特点：

1、所受荷载变异性较大；

2、扣件连接节点属于半刚性，且节点刚性大小与扣件质量、安装质量有关，节点性能 存在较大变异；

3、钢管支架结构、构件存在初始缺陷，如杆件的初弯曲、锈蚀，搭设尺寸误差、受荷偏心 等均较大；

4、与墙的连接点，对钢管支架的约束性变异较大。

The steel flexible head has the following characteristics:

1. It is subject to a large variability in loads.

2. The fastener connection joints are semi-rigid, and the rigidity of the joints is related to the quality of the fasteners and the installation quality, leading to significant variations in joint performance.

3. There are initial defects in the steel pipe support structure and components, such as initial bending of the bars, corrosion, large erection dimension errors, and eccentric loading.

4. The connection points with the wall exhibit a large variability in the constraints they impose on the steel pipe support.

管桩锁扣焊接
Pipe pile clutch welding

管桩锁扣焊接技术广泛应用于各类建筑场合，特别是在地基打桩工程中，它能够确保管桩之间的紧密连接，提高结构的稳定性和承载能力，适用于各种建筑场地的最底层打桩工作。

The pipe pile locking welding technology is widely used in various construction sites, especially in foundation pile driving projects. It ensures tight connections between pipe piles, enhancing the structural stability and load-bearing capacity. This technology is suitable for the bottommost pile driving work in various construction sites.





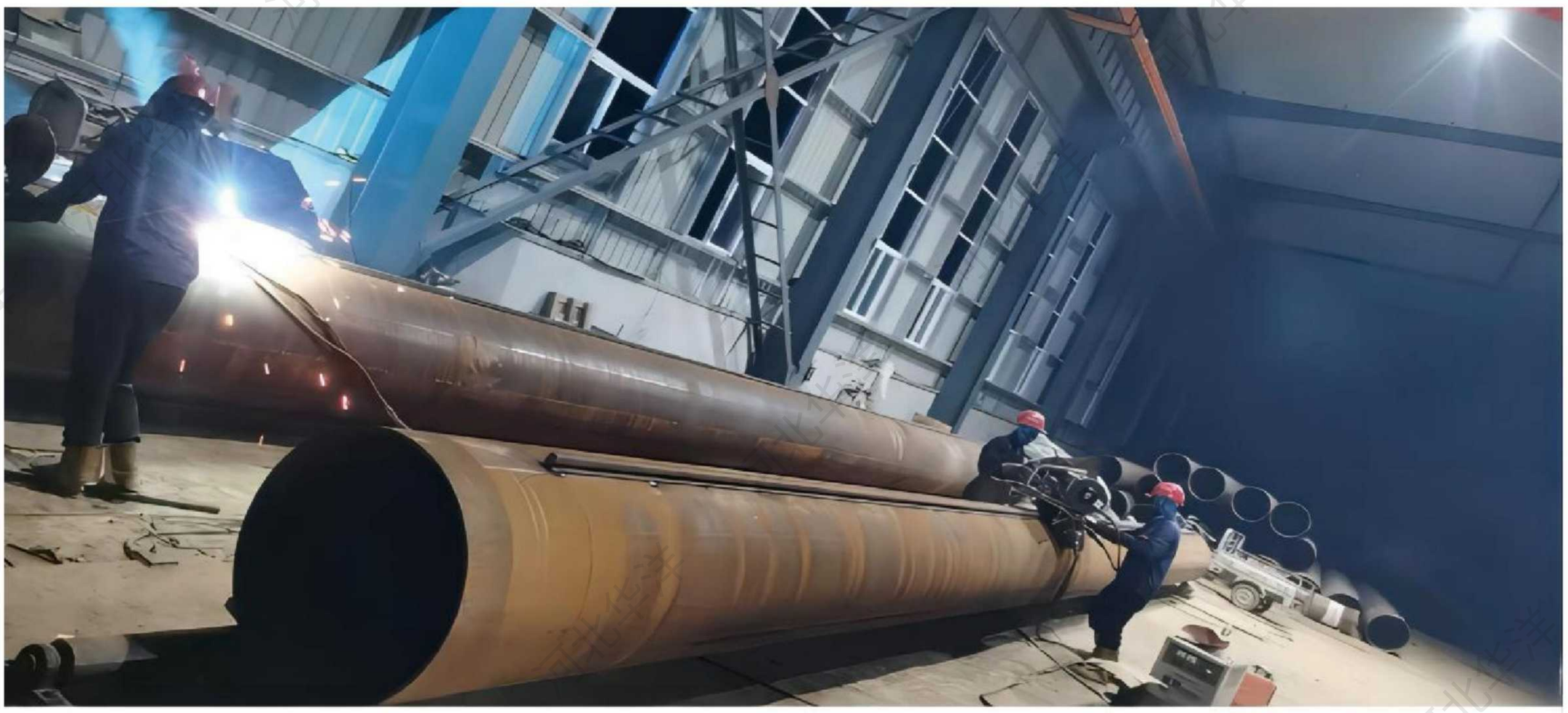




钢管与钢板桩焊接
Welded steel pipe with steel sheet pile together

在基础建设中，钢管与钢板桩的焊接技术起到了关键作用，通过将两者牢固焊接，形成了一道有效的隔水屏障，不仅阻止了地下水的渗透，还增强了土方的稳定性，有效防止了土方坍塌事故的发生，从而保障了施工安全和工程进度。

In infrastructure construction, the welding technology of steel pipes and steel sheet piles plays a crucial role. By firmly welding the two together, an effective waterproof barrier is formed. This not only prevents the penetration of groundwater but also enhances the stability of the earthwork, effectively preventing soil collapse accidents. As a result, it ensures construction safety and the progress of the project.







钢构栓钉焊接
Steel stud welding

栓钉作为一种高强度刚度的紧固件，在钢结构工程中发挥着至关重要的作用，它通过刚性组合连接，将不同的构件紧密固定在一起。在城市的建设中，特别是在主梁等关键钢结构部件的制造与安装过程中，焊接栓钉的使用不仅确保了各构件之间的稳固连接，还提高了整体结构的稳定性和安全性。

As a high-strength and rigid fastener, the stud plays a crucial role in steel structure engineering. It tightly fixes different components together through rigid composite connections. In urban construction, especially in the manufacturing and installation of key steel structural components such as main beams, the use of welded studs not only ensures the stable connection between various components but also enhances the overall stability and safety of the structure.







钢板切割下料
Steel plate cutting blanking

钢板切割下料是一种工业领域经常会使用到的材料，它具有润滑力强、可反复回收、不粘附，耐高温、抗腐蚀、抗辐射、绝缘性强等特点，使用起来性价比非常高，无论是用来耐高温也好、用来绝缘阻电也好、或是重复利用也好，都使它拥有了广泛的使用群体，在各种不同的行业里面，也都拥有着良好的应用性。

Steel plate cutting is a commonly used material in the industrial field. It possesses strong lubricity, can be recycled repeatedly, is non-adhesive, resistant to high temperatures, corrosion, radiation, and has strong insulating properties. Its cost-effectiveness is very high, whether it is used for high-temperature resistance, electrical insulation, or for repeated use. These characteristics have given it a wide range of users, and it has good applicability in various industries.

等离子钢板切割通过客户需求，例如电脑软件把设计图做好，然后导入等离子切割机里面进行执行的一个过程，而常见的作图软件例如CAD作图。

Plasma steel plate cutting is a process that fulfills customer requirements, such as using computer software to create design drawings, which are then imported into the plasma cutting machine for execution. Common graphic design software used for this purpose includes CAD (Computer-Aided Design) software.

火焰切割钢板指利天然气火焰（氧和天然气）将被切割的钢板预热到能够剧烈燃烧的燃点，再释放出高压氧气流，使钢板进一步剧烈氧化并将燃烧产生的熔渣吹掉形成切口切割钢板的过程。

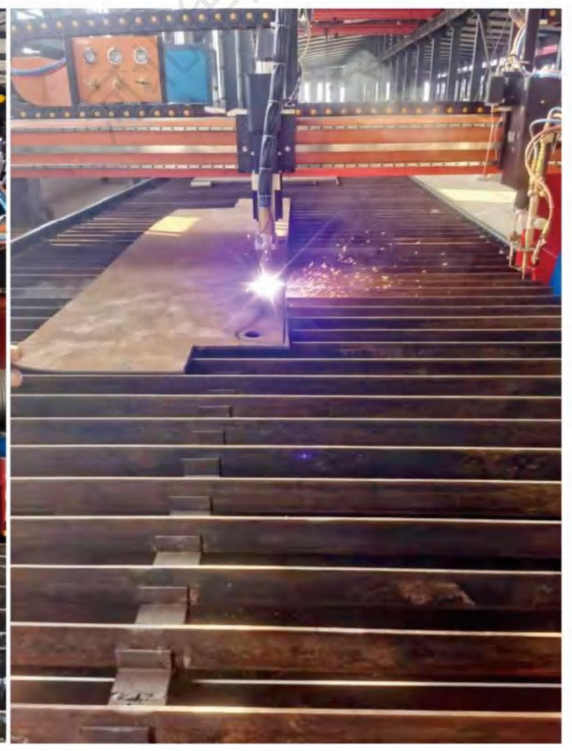
Flame cutting of steel plates involves using a natural gas flame (oxygen and natural gas) to preheat the steel plate to its ignition point, where it can burn vigorously. Then, a high-pressure stream of oxygen is released, causing the steel plate to undergo further intense oxidation. The resulting combustion blows away the molten slag, forming a cut in the steel plate.

激光切割钢板利用高功率密度激光束照射被切割钢板，使钢板很快被加热至汽化温度，蒸发形成孔洞，随着光束对钢板的移动，孔洞连续形成宽度很窄的切缝，完成对钢板的切割。

Laser cutting of steel plates utilizes a high-power density laser beam to irradiate the steel plate being cut. This quickly heats the steel plate to its vaporization temperature, causing it to evaporate and form a hole. As the beam moves across the steel plate, the holes continuously form a very narrow cut, completing the cutting of the steel plate.







交通设施
Traffic facilities

各类交通标志杆、监控杆、路灯杆，均采用优质钢材制造，工艺先进，主杆材料采用优质Q235或Q345优质钢板加工制作。抗风能力强、强度高、承载大。整杆采用一次折弯工艺或法兰拼接工艺，安装更为方便灵活。杆体表面采用去油、磷化、热浸锌工艺，使用寿命大于20年。杆体外观采用室外静电喷塑工艺，颜色与周边环境协调一致。可根据客户及周边环境的要求，采用多种式样，灵活多变。杆体经大型机械折弯一次成形，外观有圆形、正六边形、正八边形等，杆体内外均采用热镀锌进行防腐处理，若有需要，也可根据实际使用环境，使用喷涂技术进行表面装饰。



Various traffic sign poles, surveillance poles, and street light poles are all made from high-quality steel with advanced manufacturing processes. The main pole materials are processed from premium Q235 or Q345 steel plates. These poles have strong wind resistance, high strength, and large load-bearing capacity. The entire pole is crafted using either a one-time bending process or a flange splicing process, making installation more convenient and flexible. The pole surface undergoes de-oiling, phosphating, and hot-dip galvanizing processes, ensuring a service life of over 20 years. The pole's appearance is treated with outdoor electrostatic powder coating, with colors that harmonize with the surrounding environment. They can be customized in various styles to meet client and environmental requirements, offering flexibility and diversity. The poles are formed in one step by large machinery, featuring appearances such as round, regular hexagonal, and regular octagonal shapes. The inner and outer surfaces of the poles are corrosion-proofed with hot-dip galvanizing, and if needed, can also be decorated with spraying technology based on the actual usage environment.



格构式钢柱
Lattice steel column

格构式钢柱在城市建设中扮演着重要角色，它通常与钢管桩配合使用，在横向形成稳定的支撑结构，为各类建筑提供坚实的骨架，确保了工程的安全性和耐用性。

Lattice steel columns play a significant role in urban construction. They are typically used in conjunction with steel pipe piles to form a stable lateral support structure, providing a robust framework for various types of buildings, thus ensuring the safety and durability of the projects.









钢管套装加固
Steel pipe nesting and reinforcement

钢管焊接加固:将钢管与原有结构焊接在一起，形成一体化结构，提高整体的强度和刚度。

Steel pipe welding reinforcement involves welding the steel pipe to the existing structure, creating an integrated structure that enhances overall strength and stiffness.





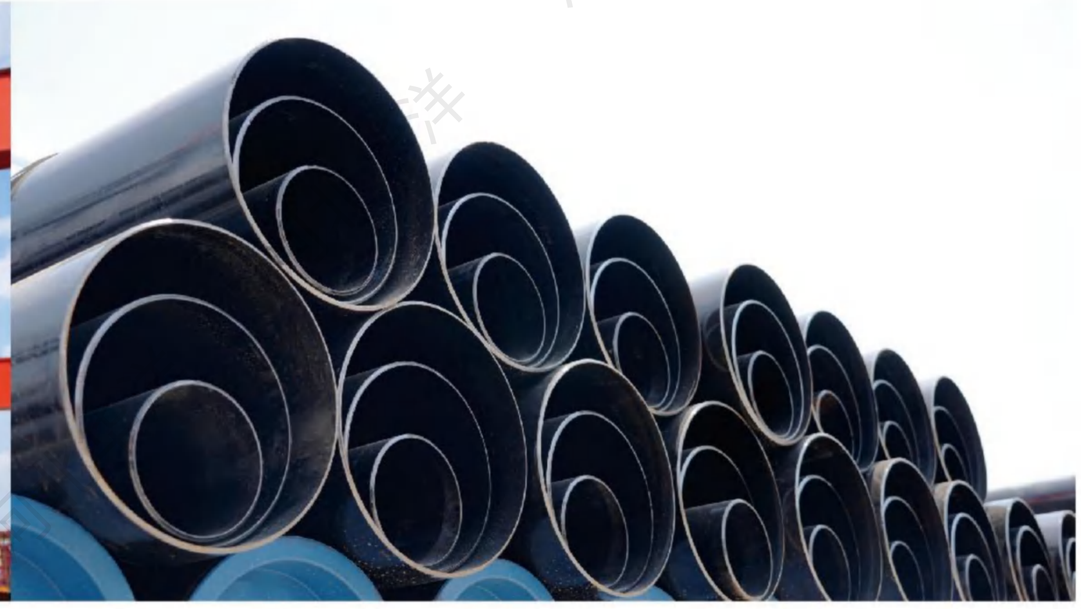
钢管包裹加固:用钢管将原有结构包覆，通过钢管的强度和刚度来增加整体结构的承载能力。

Steel pipe encapsulation reinforcement involves enveloping the existing structure with steel pipes, enhancing the overall load-bearing capacity through the strength and stiffness of the steel pipes.




钢管套筒加固:将钢管套入原有结构中，使其起到增强结构强度和刚度的作用。

Steel pipe sleeve reinforcement: Inserting a steel pipe into the existing structure to enhance its strength and stiffness.

桩尖
Pile poles

预制钢桩尖是一种钢板材质的预制构件，用于在管桩下沉施工时安装在管桩头上，起引导和封堵作用。桩尖的形式随着地质的不同和使用方式的不同，也跟着改变和衍生出各类不同的形状规格。

Prefabricated steel pile tips are prefabricated components made of steel plates, used for installation on the top of pipe piles during pile sinking construction, serving as a guide and seal. The shape of the pile tip varies with different geological conditions and usage methods, leading to various shapes and specifications.



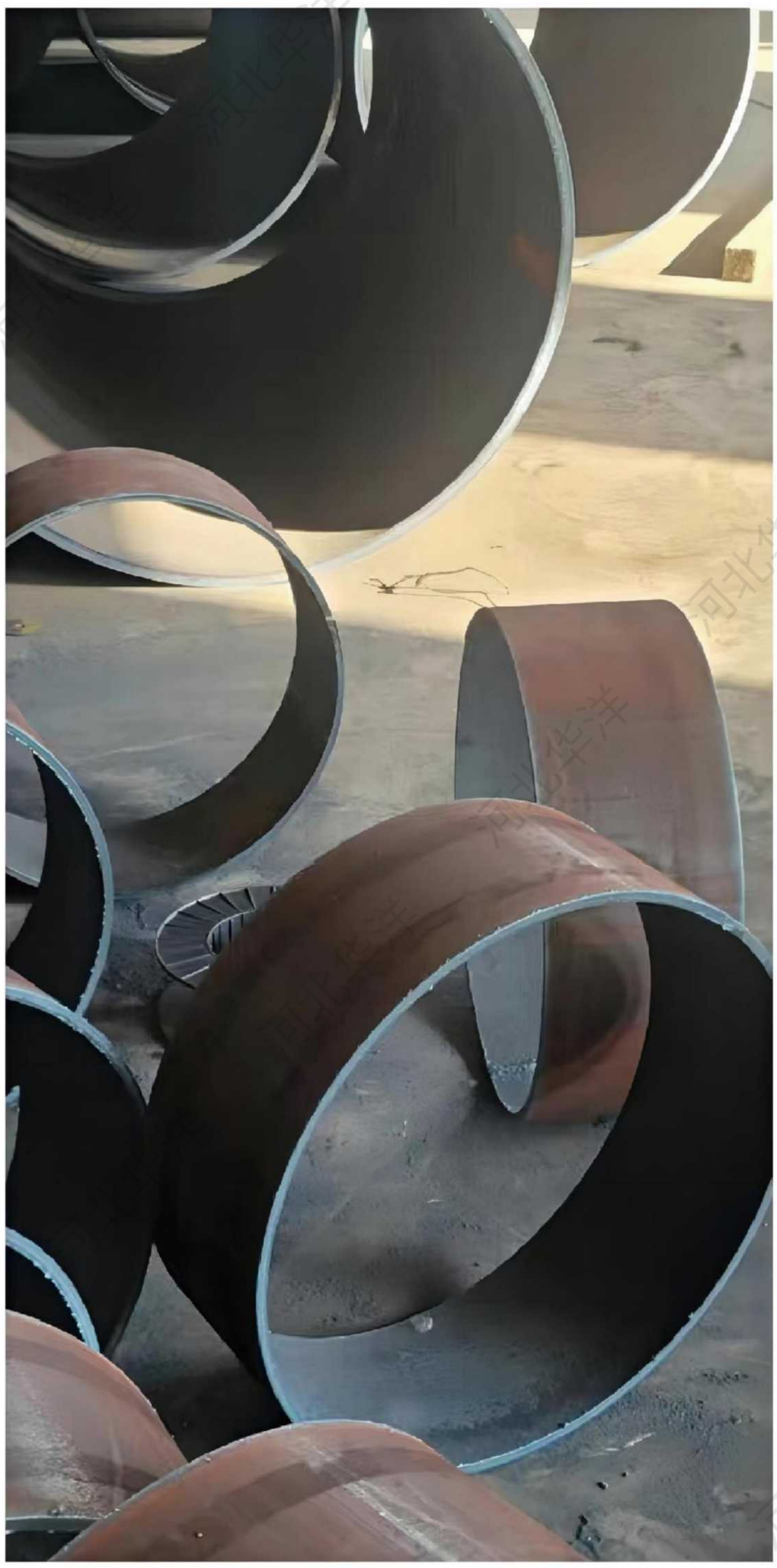




切管
Pipe cutting

切管工艺是钢管加工中的一项基本操作，在钢管切割过程中，我们能够处理的最小长度为20厘米，切割后的短管广泛用于机械加工、结构构建等多种用途，满足各种工业和建筑领域的具体需求。

The pipe cutting process is a fundamental operation in steel pipe processing. During the pipe cutting process, the minimum length we can handle is 20 centimeters. The cut short pipes are widely used in various applications such as machining, structural construction, and more, meeting specific needs in various industrial and construction fields.







电焊标
Welding symbol

激光束可以精确控制，从而在钢管表面形成清晰、精细的文字。这种技术能够确保文字的清晰度和持久性。

精密电弧焊接，也可以用于刻写文字。通过精确控制电弧的移动和焊接参数，可以在钢管表面形成文字。

等离子弧焊接提供更高的温度和更集中的热量，适合在钢管表面进行精细的刻写工作。

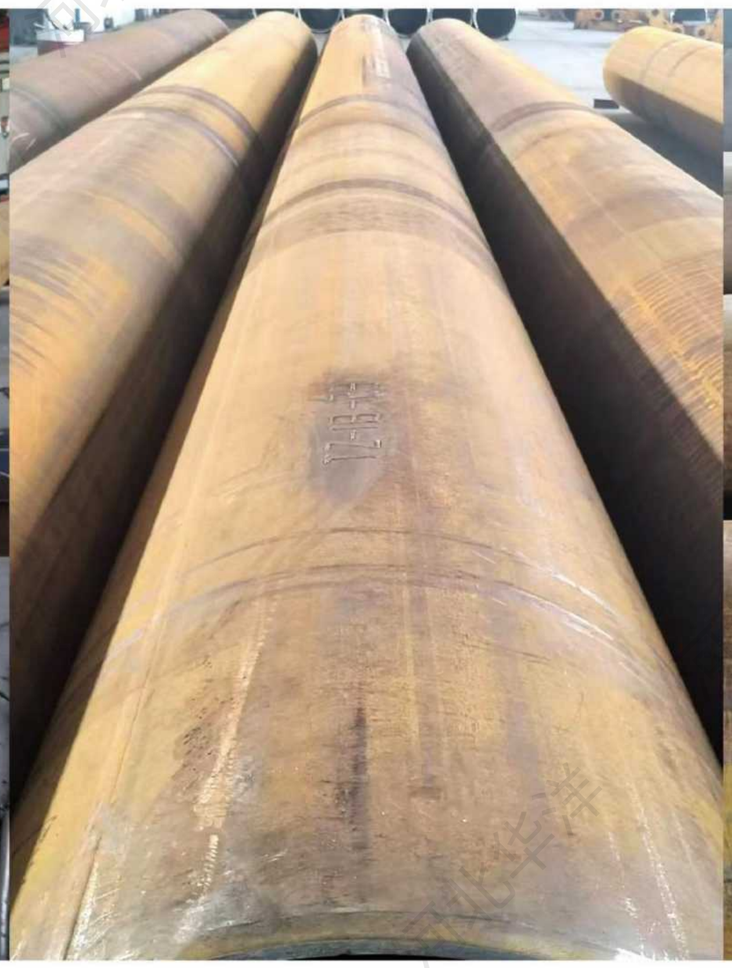
Laser beams can be precisely controlled to form clear and fine text on the surface of steel pipes. This technology ensures the clarity and durability of the text.

Precision arc welding can also be used for inscribing text. By precisely controlling the movement of the arc and welding parameters, text can be formed on the surface of steel pipes.

Plasma arc welding offers higher temperatures and more concentrated heat, making it suitable for delicate inscribing work on the surface of steel pipes.









厂房钢结构
Factory steel structure

厂房钢结构是指以钢材为主要承重结构的厂房建筑形式。

高强度与轻自重的特性使得钢材在工业厂房建设中具有显著优势，其高强度的重量比让钢结构厂房的自重相对较轻，从而降低了基础建设的成本。同时，钢结构因其良好的延性和韧性，具备了出色的抗震性能，能够有效吸收地震能量，显著提升了建筑的抗震能力。施工速度的快速也是钢结构的一大亮点，其构件可以在工厂预制，现场快速组装，大大缩短了施工周期。此外，钢结构厂房具有更大的跨度和高度，内部空间几乎没有柱子，使得空间利用率大幅提高。耐久性和维护方便性也是钢材的一大特点，钢材的耐腐蚀性强，在正确的维护下，钢结构厂房的使用寿命得以延长。

The steel structure of a factory building refers to a type of construction where steel is the primary load-bearing material.

The high strength and low self-weight of steel offer significant advantages in the construction of industrial buildings. The high strength-to-weight ratio of steel means that the self-weight of steel structure factories is relatively light, thereby reducing the cost of foundational construction. Additionally, steel structures are known for their excellent ductility and toughness, which provide superior seismic resistance. They can effectively absorb seismic energy, greatly enhancing the building's ability to withstand earthquakes. The rapid construction speed is another highlight of steel structures. Their components can be prefabricated in factories and quickly assembled on-site, significantly shortening the construction period. Moreover, steel structure factories offer larger spans and heights, with minimal internal columns, greatly increasing space utilization. Durability and ease of maintenance are also key features of steel. Steel has strong corrosion resistance, and with proper maintenance, the service life of steel structure factories can be prolonged.









钢管管箍
Steel pipe clamp

钢管管箍在盾构机中用于连接钢管，以便于在盾构机前进时快速延伸管道，同时确保输送介质（如沙、泥、水、石头块等）的通道畅通,确保管道系统的稳定性和安全性。

根据地质条件的不同，盾构机可能需要调整其工作压力和管道配置。钢管管箍的使用可以根据实际需求快速调整，如在沙质地质条件下可能不需要过高的压力，而在岩石地质条件下则需要加大压力和管道尺寸。

在盾构机施工中，尤其是在隧道、地铁、矿井等工程中，钢管管箍的使用是实现高效、安全施工的重要手段。通过这种方式，可以确保盾构机在复杂多变的地质条件下稳定前行，同时保持施工进度。

Steel pipe clamps are used in shield machines to connect steel pipes, allowing for the rapid extension of the pipeline as the shield machine advances. They ensure the smooth passage of conveying media such as sand, mud, water, and rock fragments, thereby ensuring the stability and safety of the pipeline system.

Depending on the geological conditions, the shield machine may need to adjust its working pressure and pipeline configuration. The use of steel pipe clamps allows for quick adjustments according to actual needs. For instance, in sandy geological conditions, higher pressure may not be required, whereas in rocky conditions, increased pressure and pipeline size might be necessary.

In shield machine construction, especially in projects like tunnels, subways, and mines, the use of steel pipe clamps is a crucial method for achieving efficient and safe construction. This approach ensures that the shield machine can advance stably under complex and variable geological conditions while maintaining the construction schedule.





三通焊接法兰
Tee welded flange

三通焊接法兰是一种在管道系统中用于主管道分支的连接件，其安装简便，适用于现场操作，节省时间和劳动力。焊接连接确保了良好的密封性，防止泄漏，特别适合高密封性要求的场景。同时，焊接连接提供了足够的强度，能够承受较大的压力和负荷，保证管道系统的安全性。三通焊接法兰可根据不同需求选择多种材质，如不锈钢、碳钢、铜等，以适应不同的工作环境和介质要求。综上所述，三通焊接法兰在管道系统中具有安装方便、密封性能好、强度高、材质多样、适应性强和耐用性等优点。

The tee welded flange is a type of connector used in piping systems for main pipe branches, which is easy to install and suitable for on-site operation, saving time and labor. The welded connection ensures a good tightness and prevents leakage, making it particularly suitable for scenarios with high tightness requirements. At the same time, the welded connection provides sufficient strength to withstand large pressures and loads to ensure the safety of the piping system. Tee welded flange can choose a variety of materials according to different needs, such as stainless steel, carbon steel, copper, etc., to adapt to different working environments and media requirements. To sum up, the tee welded flange has the advantages of easy installation, good sealing performance, high strength, diverse materials, strong adaptability and durability in the pipeline system.











喷淋装置
Sprinkler device

喷淋装置主要安装在油罐等高温设备上，通过喷射冷却水来降低设备表面温度，有效防止因高温引起的火灾或其他安全事故。在夏季高温期间，喷淋装置可以对油罐进行持续的水冷却，从而降低油罐内部的气体温度，减少油面温度的昼夜变化幅度，降低油罐损耗。

The sprinkler device is mainly installed on high-temperature equipment such as oil tanks, and the surface temperature of the equipment is reduced by spraying cooling water, which can effectively prevent fires or other safety accidents caused by high temperatures. During the high temperature in summer, the sprinkler can continuously cool the oil tank, thereby reducing the gas temperature inside the oil tank, reducing the diurnal variation of the oil surface temperature, and reducing the loss of the oil tank.















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