



## 610 X 17.48mm Duplex Stainless Steel Pipe For Petro Chemical S31803

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: HUADE
- Model Number: 31803
- Minimum Order Quantity: 1000kg



### Product Specification

- Wall Thickness: Customizable
- Pressure Rating: High
- Corrosion Resistance: High
- Strength: High
- Pipe Size: Customizable
- Length: Customizable
- Surface Finish: Polished, Pickling
- Weldability: Excellent
- Highlight: **17.48mm Duplex Stainless Steel Pipe,  
610mm Duplex Stainless Steel Pipe,  
S31803 duplex ss pipe**

## Product Description

### Stainless Steel Duplex Customizable Wall Pipe For Petro Chemcial

#### About Huachang

Huachang, a know-how manufacturer of stainless steel pipes and tubes, has been providing **super big outer diameter and super heavy wall pipes** to our world-wide customers in multifarious industries **since 1998**.

Huachang specializes in **seamless & welded pipes/tubes** in very **extensive range** of materials including **Stainless Steel, Duplex Steel, Nickle Alloys**.

Huachang will continue to serve customers and clients with reliable pipes and tubes and contribute to society and develop itself.

#### Description of Seamless Steel Pipe



#### Specification



## Applicable Standards

### ASTM ASME

A/SA213, A/SA249 A/SA269, A/SA312 A/SA358, A/SA376 A/SA511, A/SA688 A/SA1016  
A/SA789 A/SA790 A/SA928  
B163, B167, B407, B423, B444, B622, B729

### JIS

JIS G3446 JIS G3448 JIS G3459 JIS G3463 JIS G3468

### EN&DIN

EN 10216-5 EN10217-7 EN10297-2 DIN 17456 DIN 17458 DIN 17459

### Austenitic Steel

TP304/304L/304H/304LN  
TP310/TP310S/TP310H  
TP316/316L/316N/316H/316LN/TP316Ti  
TP317/317L/317LM/317LMN  
TP321/321H  
TP347/347H  
UNS N08904(904L/1.4539)  
SUS304TP, SUS304HTP, SUS304LTP  
SUS310TP, SUS310STP, SUS316HTP  
SUS316TP, SUS316LTP, SUS316TiTP  
SUS317TP, SUS317LTP, SUS321TP  
SUS321HTP, SUS347TP, SUS347HTP  
1.4301, 1.4306, 1.4307, 1.4311, 1.4541  
1.4550, 1.4401, 1.4404, 1.4571, 1.4429  
1.4436, 1.4435, 1.4439, 1.4539, 1.4462  
1.4424, 1.4410, 1.4507, 1.4501, 1.4910

### Duplex Steel

UNS S31500/S31803/S32205  
UNS S32750/S32760  
Nickle Alloy  
UNS N06600/N06625  
UNS N08020/N08800/  
UNS N08810/N08811/N08825

2.4816 2.4856, 2.4660, 1.4876, 1.4958, 1.4959, 2.4858, 2.4819

Others: GOST, API 5LC, NFA, GB.....are available on request

### Dimension Range

Seamless pipe/tube

O.D:6mm -1219mm W.T:0.5mm-88mm Length:Max 28Meters  
Welded pipe/tube  
O.D:168.3mm -3000mm W.T:4mm-80mm Length:Max 18Meters

## Seamless steel pipe application

Huachang has been obtaining the successful experiences and performance in Oil&Gas Industry,Petrochemical Industry, Chemical Industry, Refinery Industry, Off-shore Industry, Ship-construction Industry, Power Generation and Energy Industries,Nuclear PowerIndustries, Engineering& Construction Industries, Pulp & Paper industries, Pharmaceutical & Food Industries,Pressure Vessel Industry, Mechanical Equipment Manufacturing Industry, Aerospace and Military Industries etc, and also serving in many projects in home and abroad for manyyears.

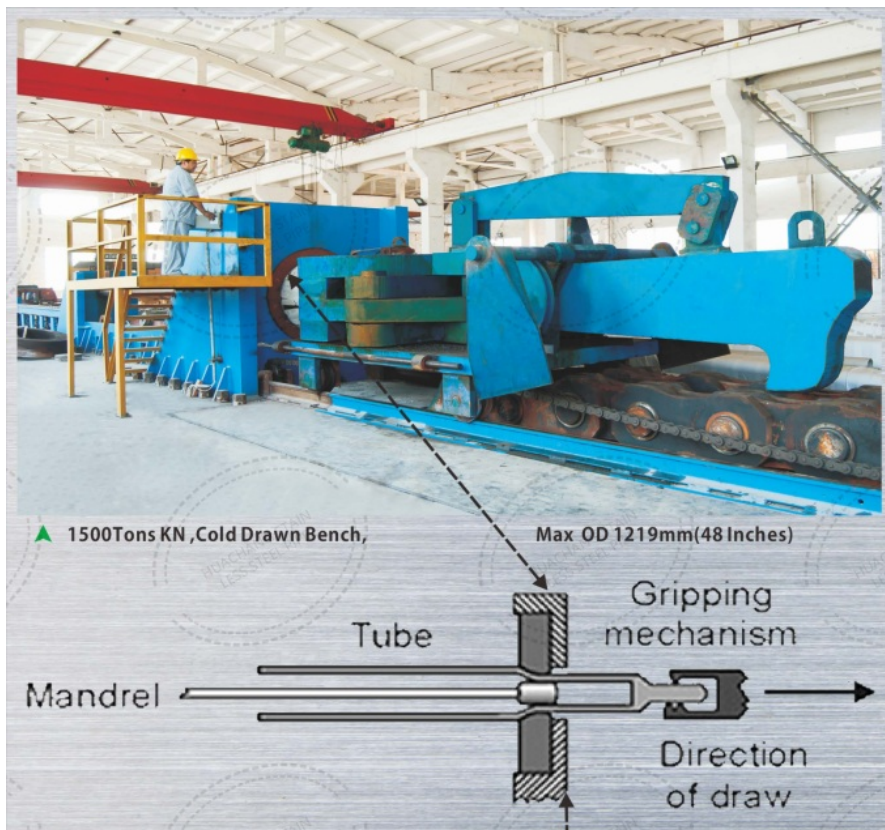
Huachang is active participant in the home and overseas mega Projects,Key cases as below:

- 2016, partaked in **PETRONAS RAPID**(Refinery and Petrochemical IntegratedDevelopment) project for 1.28 million Tons ofethylene/Year;
- 2018,participated in the **ITER** (International Thernuclear Experimental Reactor)Project, Nuclear PowerProject,in South France.
- 2018~2019, supplied pipes & tubes to the China largest joint venture refinery project:**Sino-Kuwait** integrated refinery& petrochemical project. Huachang pipes and tubes were used in units and plants such as: Steam cracking unit; High-density polyethylene unit;Catalytic gasoline adsorption desulfurization unit; EVA- Ethylene-Vinyl Acetate copolymer unit; Ethanolamine plant; Waste alkali treatment unit.
- 2017 ~2019, delivered pipes and tubes to the largest China & Korea joint venture:**SINOPEC-SK**, Wuhan,800000T/A Ethylene Project.



## Factory production facilities

Seamless pipes production

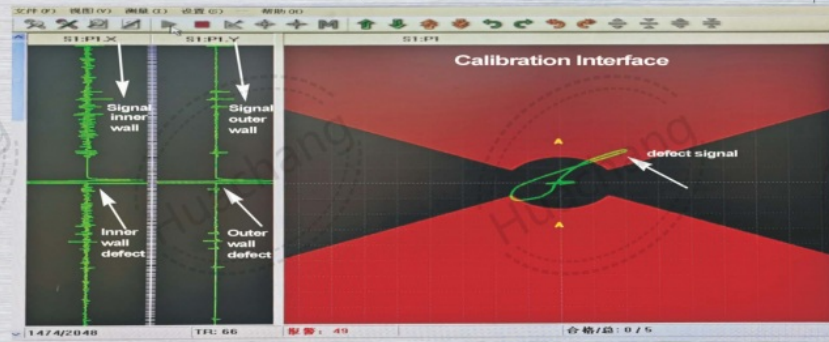


### Inspection&Testing Facilities

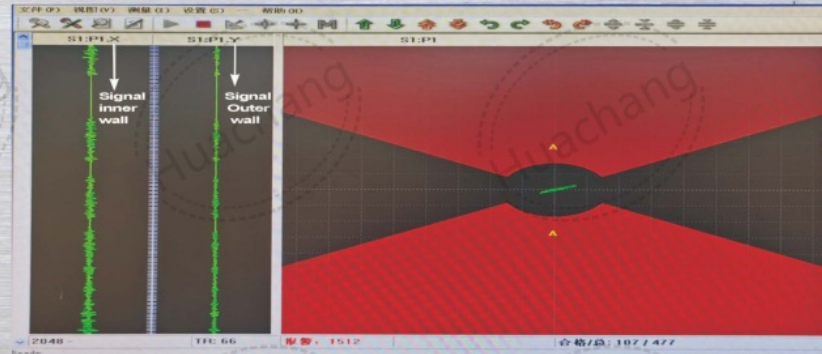
## Eddy Current & Ultrasonic Integrated flaw detector



▲ Eddy Current Tester



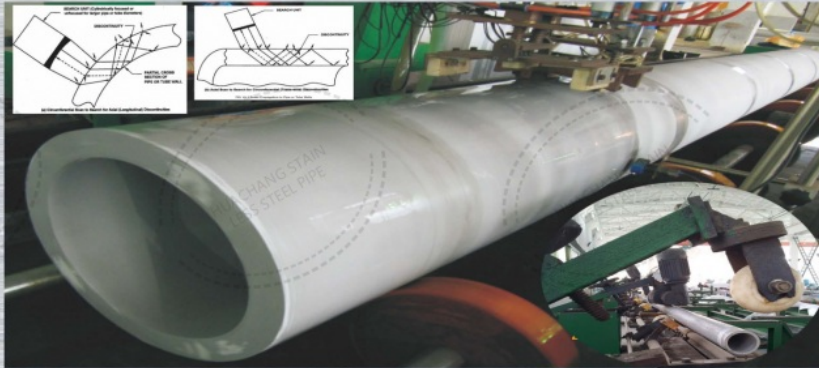
▲ ET-Calibration-Defects Signal



▲ ET-Qualified Signal



▲ Universal Testers & Hot Tensile Tester



▲ UT Big TP347H 610X50mm & Small Tube



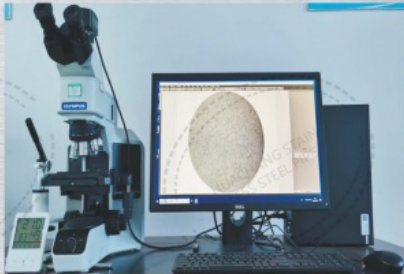
▲ Hydrostatic Test



▲ Direct reading Spectrometer



▲ Infrared sulfur carbon analyzer



▲ Metallographic microscope



▲ Impact Tester



▲ Hardness Tester



▲ IGC (Intergranular Corrosion Test)

Certificate

**ABS**

Certificate Number: 28-035883  
 Issuance Date: 28 July 2020  
 Expiry Date: 28 July 2022  
 Address: China  
 Website: www.abs.org.cn

**CERTIFICATE OF Manufacturing Assessment**

This is to certify that the following information is true and correct as provided by the manufacturer:

**JIANGYIN HUACHANG STAINLESS STEEL PIPE CO., LTD**  
 located at  
 JIANGYIN CITY, P. R. CHINA

The quality management system during production was verified to confirm the specific measures required by the ABS Rules, Codes, the associated Rules for design and the rules for the manufacture of

**Pipe, Stainless Steel**

This assessment was conducted in accordance with the project representative of the "type" approved for the purpose of meeting the "type" technical requirements in accordance with the Manufacturer's Product Design Assessment.

The Certificate is issued to the manufacturer and is subject to the conditions of the ABS Type Approval. The Certificate is valid for the period of the validity of the Certificate of Approval.

The ABS Office issuing the certificate is to be kept updated with changes to the production and the associated rules, codes, product and material and any changes made.

Annual Endorsement	First	Second	Third	Fourth
Signature				
Stamp and date				

NOTES: This Certificate is issued in accordance with the ABS Rules, Codes, and the associated Rules for design and the rules for the manufacture of the product. The Certificate is issued to the manufacturer and is subject to the conditions of the ABS Type Approval. The Certificate is valid for the period of the validity of the Certificate of Approval.

The ABS Office issuing the certificate is to be kept updated with changes to the production and the associated rules, codes, product and material and any changes made.

Certificate of Manufacturing Assessment Form 2

**TUV NORD**

**CERTIFICATE**

Management system as per  
**ISO 9001:2015**  
 (as per ISO 9001:2015)

The certificate is issued to the manufacturer in accordance with the requirements of the ISO 9001:2015 standard.

**JIANGYIN HUACHANG STAINLESS STEEL PIPE CO., LTD.**  
 No. 12, Zhongyuan Road, Jiangyin City, Jiangsu Province, P. R. China

Unified Social Credit Code: 91330481MA28300000

The certificate is issued to the manufacturer in accordance with the requirements of the ISO 9001:2015 standard.

**Manufacturing of Seamless Stainless Steel Pipes and Welded Stainless Steel Pipes (Covering Products That Have Production License Requirements Subject to Production License Limited Scope)**

Certificate Registration No.: 44 130 000000  
 Audit Number: 21-00000000

Valid from: 2021-01-01  
 Valid until: 2023-12-31  
 Initial Certification: 2020-08-26

Notary Seal: [Signature]  
 Date: 2021-01-01

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**CERTIFICATE**

For Product Conformity

Certificate No.: 1543822803

**Name and address of the manufacturer:**  
 Jiangyin Huachang Stainless Steel Pipe Co., Ltd.  
 No. 12, Zhongyuan Road, Jiangyin City, Jiangsu Province, P. R. China 214401

We certify that the above company has been assessed for approval of its production facility for manufacturing of Stainless Steel Seamless Pipes. A quality control system established and operated by the company was audited by TÜV Rheinland, and found the company has the facilities and capabilities to fabricate the Stainless Steel Seamless Pipes in accordance with the requirements of the applicable ASME/ASTM material standard of ASME Boiler and Pressure Vessel Code Section II, Part A.

**Manufacturing Scope:**  
 Manufacturing of Stainless Steel Seamless Pipes (Approved Material see annex to certificate)

**Manufacturing Site:**  
 Jiangyin Huachang Stainless Steel Pipe Co., Ltd.  
 No. 12, Zhongyuan Road, Jiangyin City, Jiangsu Province, P. R. China 214401

This certificate is valid until 15 December 2021.

Subject to the continued satisfactory operation of the company, and to annual audits as per TÜV Rheinland General procedure.

Shanghai: 20 December 2020

Wolfgang Weßing  
 General Manager  
 TÜV Rheinland Industrial Services  
 TÜV Rheinland Greater China

TÜV Rheinland (Shanghai) Co., Ltd.  
 No. 111, Lane 111, West Changsheng Road, Jingan District, Shanghai, P. R. China, 200072  
 Tel: +86 21 6046 1100  
 Fax: +86 21 6046 1101

**TÜV Rheinland**  
 Priority Right

www.tuv.com

**TUV NORD**

**CERTIFICATE**

Quality Assurance System for material manufacturer according to Pressure Equipment Directive 2014/68/EU

Certificate No.: 01202000000000000000

**Name and address of the manufacturer:**  
 Jiangyin Huachang Stainless Steel Pipe Co., Ltd.  
 No. 12, Zhongyuan Road, Jiangyin City, Jiangsu Province, 214401, P. R. China

Herewith we certify that the manufacturer has established and applied a quality assurance system related to the product. This QA system has been audited in a specific assessment according to the Pressure Equipment Directive 2014/68/EU, Annex I, point 4.3 with regard to the materials mentioned in the scope of approval.

**Approved for:**  
 CE marking in relation to the Pressure Equipment Directive 2014/68/EU

**Certificate No.:**  
 01202000000000000000

**Audit report No.:**  
 01202000000000000000

**Scope of approval:**  
 Seamless tubes of austenitic steels

**Production site:**  
 No. 12, Zhongyuan Road, Jiangyin City, Jiangsu Province, 214401, P. R. China

**The certificate is valid until:**  
 November 2023

Only valid in conjunction with a valid certificate no. 01202000000000000000

**Notary Seal:** [Signature]  
 Date: 2020-11-15

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## FAQ

### 1.Q:Are you a manufacturer?

A:Yes.Huachang is a SS pipe **manufacturer**.

### 2.Q:What are the advantages of your company?

- A:(1)We have more than **20 years** SS pipe production experience.  
 (2)We are qualified **supplier** from many large companies such as CNPC,CPCC,CNOOC...  
 (3)We can produce both seamless and weld pipe.  
 (4)Cover wide size range.  
 (5)We have qualification certificates such as:ABS BV DNV CCS KR PED...  
 (6)E-mail:huachang@hccg.cn

## Product Description:

The stainless steel duplex pipe is a high-performance solution for a variety of industrial applications, known for its exceptional strength, pressure rating, and corrosion resistance. This product is crafted using an advanced cold rolling process, which significantly enhances its structural integrity and reliability. The use of duplex stainless steel combines the best attributes of both austenitic and ferritic stainless steel, resulting in a material that does not only withstand high pressures but also resists the harshest of corrosive environments. One of the remarkable features of this stainless steel duplex pipe is its high strength. The material is designed to bear substantial stress and load, making it an ideal choice for systems that operate under severe conditions. The increased strength-to-weight ratio of duplex stainless steel allows for the construction of lighter yet more durable piping systems. This characteristic is particularly beneficial in applications where the overall system weight is a critical factor, such as in the aerospace and automotive industries. When it comes to pressure rating, the cold rolled stainless steel pipe stands out with its high capability. The cold rolling process compacts the grain structure of the steel, which in turn results in increased yield and tensile strength. This process allows the pipe to maintain its integrity even under high pressure, making it suitable for high-pressure applications such as hydraulic systems, chemical processing plants, and oil and gas pipelines. The corrosion resistance of cold rolled stainless steel pipe is another significant attribute that cannot be overstated. Its resistance to pitting, crevice corrosion, and stress corrosion cracking is essential for applications that involve exposure to corrosive substances or environments. Whether used in marine applications, exposed to chlorides, or in acidic or alkaline conditions, the duplex stainless steel pipe ensures longevity and dependability. This quality reduces maintenance costs and extends the service life of the piping system. Customizability is a key aspect of the duplex stainless steel pipe, with pipe sizes tailored to meet the specific needs of each application. Whether the requirement is for a small diameter pipe for intricate systems or a large diameter pipe for major infrastructure, the product can be manufactured to exact specifications. This flexibility ensures that each client can acquire a piping solution that fits seamlessly into their existing setup without the need for extensive modifications. Lastly, the weldability of the cold rolled stainless steel pipe is excellent. The material is designed to facilitate easier welding, ensuring strong and reliable joints. This is particularly beneficial during installation, repairs, or modifications, where welding is often required to connect sections of pipe. The duplex stainless steel's lower thermal expansion rate and higher thermal conductivity compared to austenitic stainless steels result in less distortion and fewer welding issues such as warping or residual stress. In summary, the cold rolled stainless steel duplex pipe is an exceptional product that combines high strength, superior pressure rating,

and outstanding corrosion resistance with customization options and excellent weldability. It is a robust solution for industries demanding reliable and durable piping systems that can withstand the rigors of high-pressure, corrosive environments. Its versatility and performance make it the preferred choice for clients who demand nothing but the best in their industrial applications.

Features:

Product Name: stainless steel duplex pipe  
Corrosion Resistance: High  
Pipe Size: Customizable  
Pressure Rating: High  
Durability: Long-lasting  
Weldability: Excellent  
Keywords: cold rolled stainless steel pipe, cold rolled stainless steel pipe, cold rolled stainless steel pipe

Technical Parameters:

Attribute	Details
Pipe Size	Customizable
Pressure Rating	High
Corrosion Resistance	High
Wall Thickness	Customizable
Type	Duplex
Surface Finish	Polished, Pickling
Weldability	Excellent
Application	Oil And Gas, Chemical, Petrochemical, Power Generation, Etc.
Material	Stainless Steel
Durability	Long-lasting

Applications:

The HUADE model 31803 stainless steel duplex pipe is a product engineered in China that exemplifies excellence in both performance and versatility. Primarily known for its remarkable strength and durability, this cold rolled stainless steel pipe is designed to meet a myriad of application occasions and scenarios. The cold rolling process enhances the mechanical properties and surface finish of the steel, making the HUADE duplex pipe an ideal choice for industries that demand high strength and longevity.

With a minimum order quantity of 1000kg, these pipes are not only customizable in length to suit specific project requirements but also boast excellent weldability. This ensures that integration into existing systems is seamless and secure, making the HUADE 31803 model a preferred option for large-scale industrial applications. The superior weldability of these cold rolled stainless steel pipes also guarantees that they can be used in complex configurations where precision and reliability are paramount.

The HUADE duplex stainless steel pipe finds widespread use in the petrochemical industry, where it is utilized for transporting aggressive substances and in environments where corrosion resistance is critical. The high strength-to-weight ratio of cold rolled stainless steel pipes makes them perfect for the construction industry as well, especially in high-rise building frameworks and architectural structures where durability is essential. Additionally, the food and beverage industry benefits from using these pipes due to their resistance to corrosion and ease of cleaning, which is crucial for maintaining hygiene standards.

Marine applications are another area where the HUADE 31803 model excels. The saltwater environment demands materials that can withstand the harsh oceanic elements, and the cold rolled stainless steel pipe is up to the task, offering long-lasting performance in marine hardware, shipbuilding, and coastal facilities. For the energy sector, the ability of these pipes to handle high-pressure conditions makes them suitable for use in hydraulic systems, heat exchangers, and boilers.

In summary, the HUADE brand's commitment to providing high-quality, durable, and strong stainless steel duplex pipes is evident in the 31803 model. Whether for industrial, construction, marine, or energy-related applications, the cold rolled stainless steel pipe stands as a testament to the brand's dedication to excellence and customer satisfaction.

Customization:

**Brand Name:** HUADE  
**Model Number:** 31803  
**Place of Origin:** China  
**Minimum Order Quantity:** 1000kg  
**Weldability:** Excellent  
**Length:** Customizable  
**Material:** Stainless Steel  
**Wall Thickness:** Customizable  
**Surface Finish:** Polished, Pickling

Our HUADE cold rolled stainless steel pipe, specifically model 31803, offers superior quality and customization options. Originating from China, our stainless steel duplex pipes boast excellent weldability and a polished or pickling surface finish. With a minimum order quantity of 1000kg, clients can specify the desired length and wall thickness to meet their specific requirements, ensuring that each cold rolled stainless steel pipe is tailored to their project's needs.

## FAQ:

**Q1: What is the material composition of the HUADE Model Number 31803 stainless steel duplex pipe?**

A1: The HUADE Model Number 31803 stainless steel duplex pipe is made of a duplex stainless steel alloy, which typically has a mixed microstructure of austenite and ferrite. The exact chemical composition includes elements such as chromium, nickel, molybdenum, and nitrogen, which contribute to the material's high strength and excellent corrosion resistance.

**Q2: Can the HUADE stainless steel duplex pipe be used in high-temperature applications?**

A2: Yes, the HUADE stainless steel duplex pipe is designed to withstand high temperatures. However, the maximum service temperature should be determined based on the specific conditions of the application, such as the presence of corrosive substances, pressure levels, and other environmental factors.

**Q3: Is the HUADE stainless steel duplex pipe suitable for marine environments?**

A3: Yes, due to its high resistance to corrosion, particularly to chloride-induced stress corrosion cracking, the HUADE stainless steel duplex pipe is well-suited for marine and other corrosive environments.

**Q4: What is the minimum order quantity for the HUADE Model Number 31803 stainless steel duplex pipe?**

A4: The minimum order quantity for the HUADE Model Number 31803 stainless steel duplex pipe is 1000kg.

**Q5: How can I ensure the authenticity of the HUADE stainless steel duplex pipe?**

A5: To ensure the authenticity of the HUADE stainless steel duplex pipe, you should purchase it from an authorized distributor or directly from the manufacturer. Additionally, you can request material test reports and certification that verifies the pipe's origin and material composition.



**JIANGYIN HUACHANG STAINLESS STEEL PIPE CO.,LTD**



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