

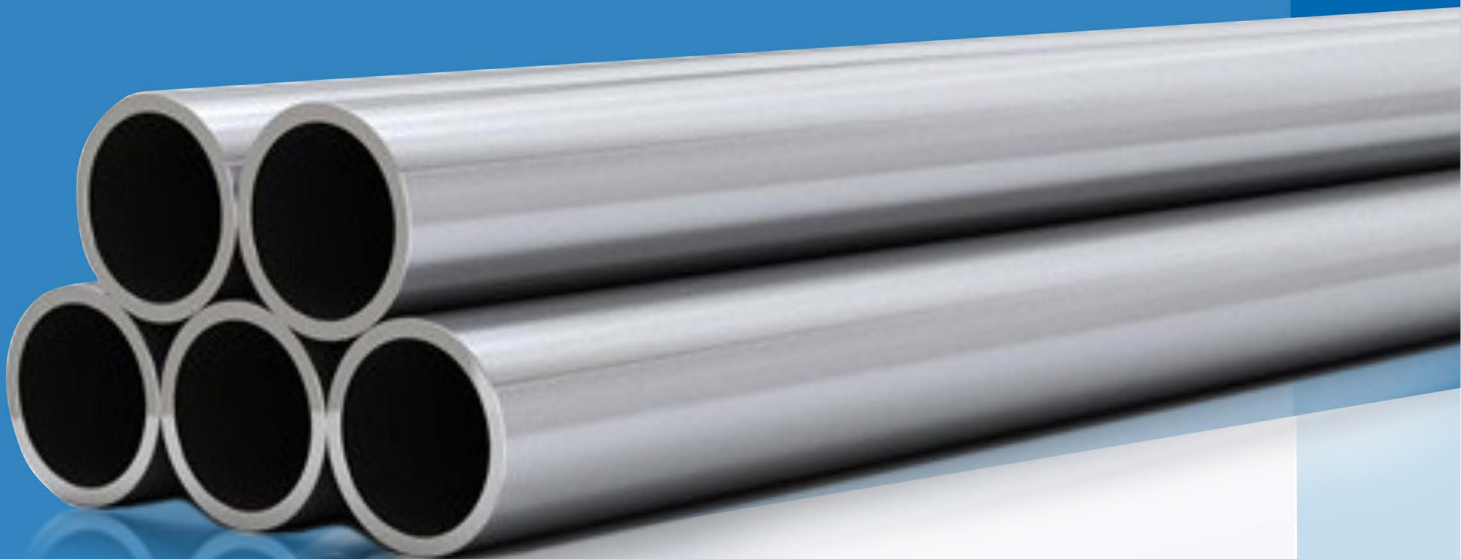


安聯鋼鐵集團  
ALLIANZ STEEL GROUP



# Leading Tube Manufacturer In China, Since 1996

Tailor made for high quality precision tube  
in various OD, ID, wall thickness and length,  
to meet customers' needs for different projects..





# COMPANY CATALOGUE

## RONSCO

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## ALLIANZ STEEL GROUP

Allianz Steel Group was founded in 1996 and Ronsco brand was established in 2014. We are leading tubes manufacture in China, the fabrication capacity reached over 1500mt/year, specializing in tailor-made high-quality precision seamless tubes with various outer diameters, inner diameters, wall thicknesses and lengths, covering austenitic stainless steel, duplex stainless steel, pure nickel, nickel alloy, superalloy and other materials to meet customers' needs for different projects.

The company has leading technology of precision pipe production and research at home and abroad, advanced and complete testing facilities. We strictly in accordance with the ISO 9001 quality management system for on-site management, has obtained ISO 9001, AD2000, PED certification, etc. Our products have been inspected and approved by TUV, SGS, BV, ABS, LR and other international authoritative third-party organizations.

Are you looking for a reliable tubes manufacturer? Ronsco will be your first choice. We always adheres to the business philosophy of "customer-centered", tries its best to meet the requirements of customers and pursues win-win cooperation with customers. Contact Us Now! Email: [manager@ronsteel.com](mailto:manager@ronsteel.com)



## Why Choose Us

### ● Special Metal Materials

- Pure Nickel: Nickel 200, Nickel 201 etc.,
- Nickel Alloy: Inconel 600, Inconel 601, Inconel 625, Inconel 718, Sanicro 28, Incoloy 800, Incoloy 825 etc.,
- Superalloy: Nimonic 80A, Nimonic 75,.
- Austenitic Stainless: 316L, 316L Mod, 316LVM, 310MoLN etc.,
- Duplex Stainless: 2205, 2507, S32760 etc.,

### ● Strict Quality Control

- Equipped with a complete set of advanced testing instruments and a team of highly experienced professional inspectors, we have also established a provincial-level testing center. To ensure that every product is defect-free and meets the highest quality standards, we strictly abide by the ISO 9001 quality management system, conducting incoming inspection, process inspection, final inspection and delivery control.

### ● Special Surface Conditions

- Ronsco is a leading manufacturers of precision seamless tube in China that can providing surface treatments such as acid pickling, bright annealed, electropolished and mechanical polishing to achieve ID/OD surface roughness as low as Ra0.1um.

### ● Special Sizes Available

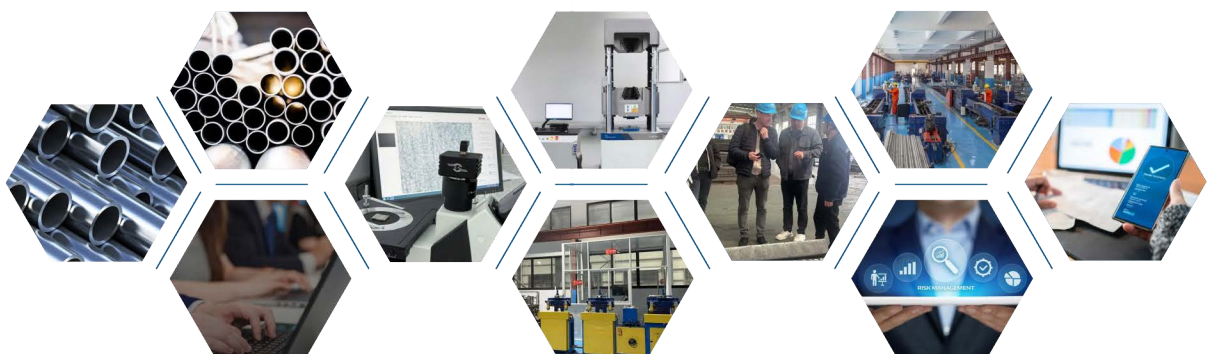
- Specializing in producing precision seamless tubes with an outer diameter ranging from 3.175 mm to 325 mm and a wall thickness of 0.5 mm to 20 mm. Specific dimensions can be customized to meet customer requirements, including ultra thin wall, ultra heavy wall, ultra small ID.

### ● Fast Delivery Time

- The delivery of inventory goods is usually possible within 7 days. For items that require production planning, the lead time is typically around 60 days, depending on the actual demand.

### ● Flexible Payment Terms

- Support TT, LC, OA, DP, Alibaba trade assurance, bank guarantee etc.,





# Social Responsibility

## 1 Responsible for customers and credit building up brand

Allianz Steel Group always takes it as the first importance to supply good products and service for customers to meet varied demands of different customers, which helps building up credit and brand of the group.

## 2 Responsible for staff and workers and to consolidate cohesive force

Following concept of its “people centered and enterprise development by talents”, Allianz Steel Group is striving to generate a good atmosphere for workers to establish a harmonious work relation, where workers can enjoy working and life and loyal to the enterprise. Those measures maintains vigorous life and vitality of the enterprise and consolidates centripetal force and cohesive force of the enterprise.

## 3 Responsible for cooperative partners and credit , promoting mutual benefit of cooperation

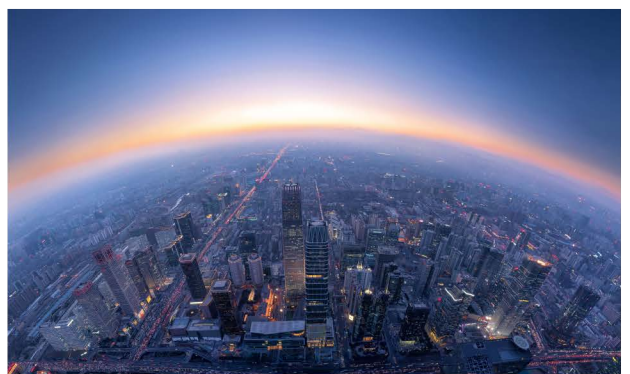
Highly holding banner of cooperation and mutual benefit, with concept of “honesty for the achievement of customers”, Allianz Steel Group is moving into track for fast development working together with its partners.

## 4 Responsible for environment and becoming an environmental- friendly enterprise

Green, low carbon and environmental protection under the new norm is the theme of the enterprise’s healthy development. Allianz Steel Group pays more attention to economic development and environmental protection. The group is pushing forward to build into resources conserving and environmental-friendly enterprise to realize harmonious development in environmental protection and economical construction.

## 5 Responsible for society , bearing more social responsibility, pay back to the society

During its more than 26 years development, Allianz Steel Group has built up a good reputation in public in term of social responsibility and contribution with mind of “contributing to the country by developing industry”.



# FERROUS MATERIALS

## Stainless Steel Clean BA/ EP Tubes

Common steel: 316L 1.4404 S31603  
Production standard: ASTM A269 JIS3459  
Specification range: 3.175-325×0.5-20MM

Clean tubes feature a smooth surface, ultra-high purity, high-precision tolerances, excellent inner surface roughness, with an inner surface Ra of less than 0.4  $\mu\text{m}$ . They are primarily used in industries with high cleanliness requirements, such as semiconductors, medical catheters, food and beverage processing, pharmaceuticals, superheater heat exchangers, high-purity gas and fluid piping systems, among others. These tubes are manufactured in accordance with ASTM A269/A270 standards. For environments demanding utmost cleanliness, the tubes undergo nitrogen purging and packaging in clean-rooms to meet these stringent requirements. The inner surfaces of the tubes can be supplied in a bright annealed (BA) or electro-polished (EP) finish.



## Stainless Steel Ultra-pure Clean BA/EP Tubes

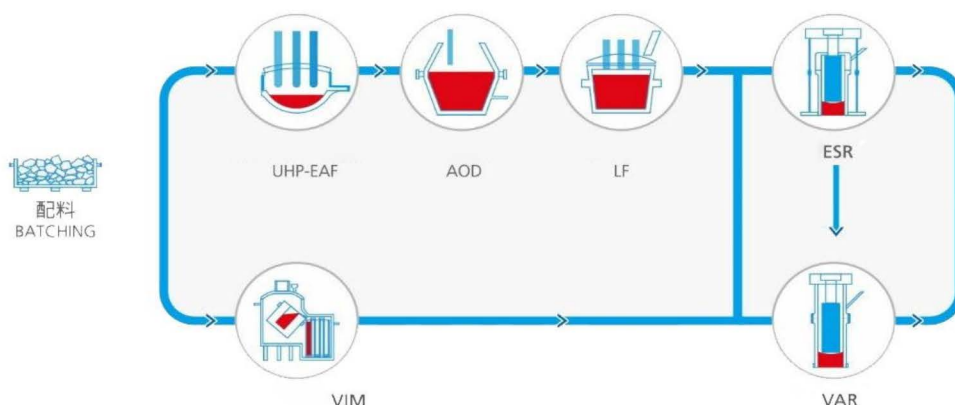
Common steel: 316L (V+V)  
Production standard: ASTM A269 JIS3459  
Specification range: 3.175-325×0.5-20MM

Stainless steel ultra-pure clean tubes in the semiconductor industry typically require special refining methods to ensure material purity and consistency, thereby meeting strict cleanliness requirements. These tubes are commonly used in gas and liquid delivery systems in semiconductor manufacturing equipment to ensure the purity of media throughout the manufacturing process remains uncontaminated. Below are some of the special refining methods used to manufacture such ultra-pure stainless steel tubes:

1. Vacuum Induction Melting (VIM): This process significantly reduces the gas content in metals (such as oxygen, nitrogen, and hydrogen) and can also remove some non-metallic inclusions.
  2. Vacuum Arc Remelting (VAR): This process further improves the purity of the metal, reduces inclusions, and helps achieve more uniform composition.
  3. Electroslag Remelting (ESR): effectively removes non-metallic inclusions from the metal, improving the material's purity.
- For example, a type of ultra-high purity SUS316L stainless steel tube named K S 007 is produced using a triple-refining method of VIM-VAR-ESR. This material has extremely high purity and meets the strict requirements for material purity in the semiconductor industry.

Product Features:

1. Very low ABCD inclusion content.
2. Very low N.H.O element content.





## Urea-Grade Austenitic Seamless Stainless Steel Tubes

These tubes are primarily used in the core components of synthetic ammonia and urea industries. The raw materials are obtained through ESR, and during production, apart from strict control over cleanliness, particular emphasis is placed on the heat treatment process, with domestic products currently largely reliant on imports. Our company produces urea-grade stainless steels including Super-pure 316Lmod and S31050, both of which belong to the category of super-pure stainless steels. They are specifically designed to address the issue of selective corrosion that readily occurs in ferritic steels under ammonia environments during urea synthesis. The manufacturing process of these products adheres rigorously to standardized procedures, ensuring excellent corrosion resistance as verified by the Hughes Test. Furthermore, this product plays a vital role in the hydrogen energy industry.



**Melting Process:** Electrical Furnace+Electro-Slag+AOD  
**Grade:** 1.4435 316Lmod S31723  
**Specification:** 3.175-325 × 0.5-20MM

## Duplex /Super Duplex Stainless Steel Seamless Tubes

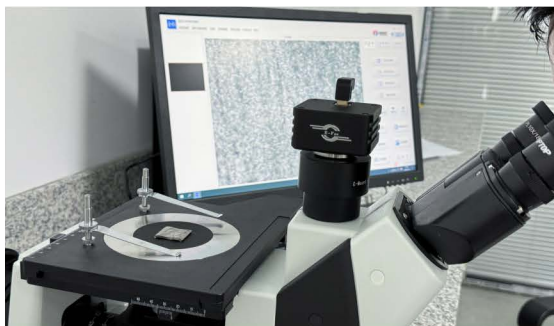
Main Products Grade:

Economic Type	Ordinary Type	Ordinary Type	W-Mo-Cu-N Super Type
UNS S32101	UNS S31803	UNS 32750	UNS 31260
UNS S32304	UNS S32205	UNS S32707	UNS32760
UNS S31500	-	-	UNS39274

Specification range:

Out Diameter: 3.175-325mm

Wall Thickness : 0.5-20mm



## Hydrogen Energy Tube/Ultra High Pressure Tube

Stainless steel tubes used in the hydrogen energy industry are specially designed to meet the demanding operating conditions of hydrogen energy systems. These materials need to possess good corrosion resistance, resistance to hydrogen embrittlement, and high-temperature strength.

**Medium pressure:** T15, maximum working pressure: 15,000psig

**High pressure:** T20, maximum working pressure: 20,000psig

**Ultra high pressure:** T60, maximum working pressure: 60,000psig





# NICKEL ALLOY MATERIALS

## Urea-Grade Austenitic Seamless Stainless Steel Tubes

Nickel 200 (UNS N02200/W.Nr. 2.4060 & 2.4066) is commercially pure (99.6%) wrought nickel. It has good mechanical properties and excellent resistance to many corrosive environments. Other useful features of the alloy are its magnetic and magnetostrictive properties, high thermal and electrical conductivities, low gas content and low vapor pressure. Nickel 201 (UNS N02201/W.Nr. 2.4061 and 2.4068) is the low-carbon version of Nickel 200. Composition is shown in the Table. Typical applications are caustic evaporators, combustion boats, plater bars, and electronic components. Nickel 201, because of its low base hardness and lower work-hardening rate, is particularly suited for spinning and cold forming. It is preferred to Nickel 200 for applications involving exposure to temperatures above 315°C (600°F).

Physical Constants /thermal Properties	(Density) : 8.89 (g/cm <sup>3</sup> ) (Melting Range) : 1435-1446 °C (Coefficient of Thermal Expansion@100°C) : 13.3 µm/m							
	Tensile Strength (MPa)		Yield Strength (MPa)		Elongation (%)		(Rockwell B)	
Typical Tensile Properties	Nickel 200/N7	Nickel 201/N5	Nickel 200/N7	Nickel 201/N5	Nickel 200/N7	Nickel 201/N5	Nickel 200/N7	Nickel 201/N5
(Annealed)	380-520	345-485	85-210	70-195	40-60	40-60	70max	62max
(Stress relieved)	450-760	415-725	275-620	205-585	15-35	15-35	75-98	70-95

## Composition

Element%	Ni+Co	Cu	Fe	Mn	Si	S	C
Content%	99.0Min	0.25Max	0.40Max	0.35Max	0.35Max	0.01max	0.15 max for Nickel 200/N7 0.02 max for Nickel 201/N5

## Size

Outside Diameter	3.175-219.1mm
Wall Thickness	0.5-12.7mm



# Superalloy GH3030

Gh3030 is a solid-solution strengthened high-temperature alloy that was developed in the early stages. It is an 80Ni-20Cr solid- solution strengthened high-temperature alloy with a simple chemical composition. Below 800°C, it has satisfactory thermal strength and high plasticity, along with good oxidation resistance, thermal fatigue resistance, cold stamping, and welding process properties. After solid-solution treatment, the alloy is a single-phase austenite, with stable microstructure during usage.

## Composition

Element	Ni	C	Si	Mn	P	S	Al	Cr	Cu	Fe	Ti
Content	Remai nder	0.25Max	0.80Max	0.70Max	0.03Max	0.02max	0.15max	19.0- 22.0	0.2max	1.5max	0.15- 0.35

<b>Physical constants and thermal properties status : 980-1020°C(WQ)</b>	(Density) : 8.10 (g/cm <sup>3</sup> ) (Melting range) : 1370-1395°C at 20-800°C (Coefficient of thermal expansion 25-100°C ): 12.8 μm/m °C		
<b>Suggested delivery</b>	Tensile properties		
<b>Annealing</b>	Tensile strength (MPa)	Yield strength (MPa)	Elongation(%)
<b>Value</b>	590 min		35min

## Size

<b>Outside Diameter</b>	3.175-219.1mm
<b>Wall Thickness</b>	0.5-12.7mm



## Superalloy GH3039

Gh3039 is a high-temperature alloy characterized by its excellent resistance to oxidation and corrosion, as well as its high strength at elevated temperatures. This alloy is often used in applications where high temperatures and corrosive environments are present. When formed into tubing, GH3039 alloy tubes provide exceptional performance in demanding industrial settings.

### Composition

<b>Physical constants and thermal properties</b>	(Density) : 8.10 (g/cm <sup>3</sup> ) (Melting range) : 1370-1390°C at 20-800°C (Coefficient of thermal expansion 25-100°C): 12.5 µm/m °C		
<b>Suggested delivery status : 1050-1080°C(WQ)</b>	<b>Tensile properties</b>		
<b>Annealing</b>	Tensile strength (MPa)	Yield strength (MPa)	Elongation(%)
<b>Value</b>	635min		35min

Element	Ni	C	Si	Mn	P	S	Mo	Fe	Ti	Nb	Cr	Al
Content	Remainder	0.08Max	0.80Max	0.40Max	0.020Max	0.012max	1.80-21.30	3.0max	0.35-0.75	0.90-1.30	19.0-22.0	0.35-0.75

### Size

<b>Outside Diameter</b>	3.175-219.1mm
<b>Wall Thickness</b>	0.5-12.7mm



### Other Grade

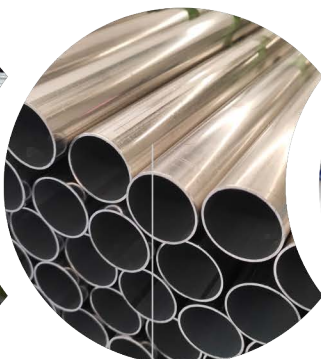
N10675	N10276	N06200	N06022
N06600	N06601	N06230	N06625
N07718	N07740	N08028	N08800
N08800	N08811	N08825	N04400



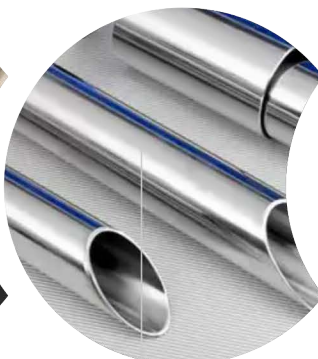
## Common Surface



● AP  
(Acid Pickling)



● MP  
(Mechanical Polishing)



● BA  
(Bright Annealing)



● EP  
(Electro Polishing)

## Packing

$\Phi 3\text{mm} \leq \text{OD} \leq \Phi 25\text{mm}$ : 采用木箱包装, 木箱厚度大于5mm, 避免运输途中产品变形弯曲。箱体内部垫一到两层不小于0.5厘米的气泡膜或者珍珠棉, 将产品铺平, 最上层与盖板的距离需大于30厘米。

$\Phi 3\text{mm} \leq \text{OD} \leq \Phi 25\text{mm}$ : Packed in wooden box, the thickness of the wooden box is greater than 5mm, to avoid deformation and bending of the product during transportation. One to two layers of bubble film or pearl cotton with a thickness of not less than 0.5 cm should be placed inside the box, and the product should be flattened. The distance between the top layer and the cover should be greater than 30 cm.

$\text{OD} \geq \Phi 25\text{mm}$ : 内包装采用塑料绳/麻绳/金条捆扎固定, 每捆外面用0.1mm厚度的防水编织袋缠绕, 一般两头用PVC薄膜缠绕或2mm厚度的塑钙纸包装。外加至少两根吊绳/吊带, 三米以上的长度的每件绑两根吊带, 方便装卸, 每件重量三吨以内。

$\text{OD} \geq \Phi 25\text{mm}$ : The inner package is fixed with plastic rope/hemp rope/gold bar, and the outside of each bundle is wrapped with a waterproof woven bag with a thickness of 0.1mm. Plus at least two slings, each with a length of more than three meters tied with two slings for easy loading and unloading, and each piece weighs less than three tons.



# Ordering guide

Ordering guide: please provide the following information when ordering.

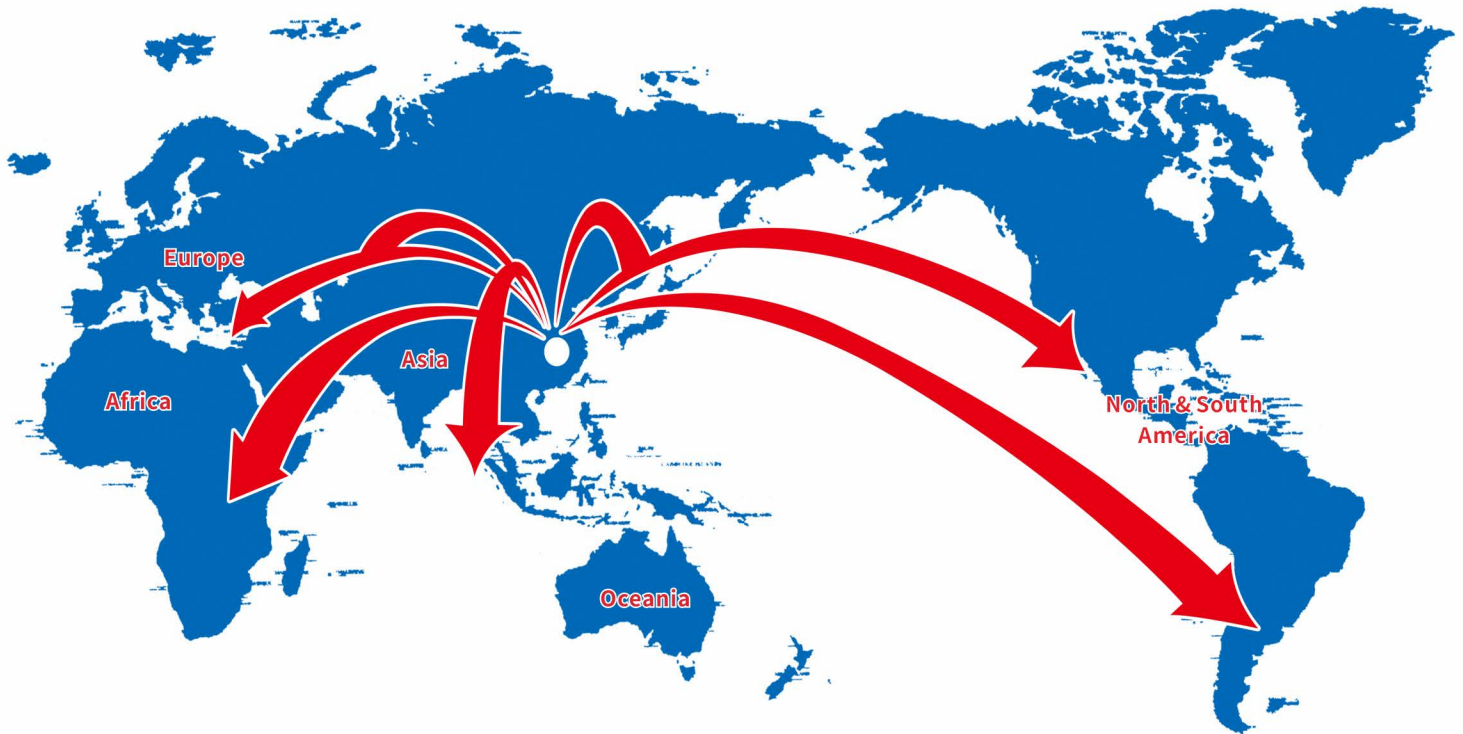
1	Product type: welded/seamless pipe
2	Quantity/weight/standard/grade/date of delivery
3	Product size: diameter, length, thickness.
4	Surface: MP/AP / BA / EP / 400# / 800# / Mirror
5	Name of application or part.
6	Package requirements: The diameter, length and weight of the pipe Wooden case size
7	Note: Please contact us if you have any special requirements.

# Certificates





## Export Countries



Contact us



**Ronsco-Your Reliable Precision Tubes Manufacturer**

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