LESSO

STOCK CODE: 2128.HK

Stainless Steel Structural Tube



ISO9001 ISO14001 ISO45001 CNAS CERTIFICATION LISTED COMPANY, WELL-KNOWN RESPECTED BRAND

LESSO GROUP

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LESSO



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About the Group

Established in 1986, LESSO (Stock Code: 02128.HK) is a global leader in home furnishings and building materials. The Group's business portfolio spans plastic piping, building materials and home furnishings, new energy and others. It offers a wide range of products such as pipes, new energy solutions, sanitary ware, integrated kitchen cabinets, integrated doors and windows, water purifiers, water-proofing materials and sealants, fire-fighting equipment, valves, wires and cables, switches and sockets, roof sheets, items for environmental protection, agricultural facilities, and ocean aquaculture cages. In 2023, LESSO's sales revenue reached over USD **4.38** billion.

With the advancement of internationalization and globalization, LESSO has established more than **30** advanced production bases in **19** provinces across China and some foreign countries, and its industrial and sales networks cover regions and countries in five continents: Asia, Africa, North America, South America, and Europe. LESSO remains committed to improving its strategic layout to broaden its sales networks and expand its market reaches, enabling it to provide customers with diverse products and professional services in a timely and efficient manner.

LESSO has established its R&D center with over **1,000** scientific researchers. It now possesses forty-three national high-tech enterprises, one nationally accredited enterprise technology center, two post-doctoral research centers, six nationally accredited CNAS laboratories, one key laboratory for plastic molding processing technology enterprise in Guangdong Province, and one industrial technology innovation alliance for plastic piping in Guangdong Province. LESSO now boasts over **3,100** patents (some of them are pending). Its scientific achievements are included in the National Torch Program Project, the National Key New Products, the Scientific and Technological Achievements Promotion Project in the National Construction Industry, and the Government Green Procurement List. LESSO has been awarded many honorary titles by relevant national departments such as the National Manufacturing Individual Champion Demonstration Enterprise, the National Intellectual Property Demonstration Enterprise, the China Construction Science and Technology Independent Innovation Advanced Enterprise, and the Industrialization Demonstration Base of the Ministry of Construction. It has won numerous prizes, including the First Prize for Scientific and Technological Progress of the China National Light Industry Council, the First Prize for Scientific and Technological Progress of the Ministry of Education of PRC, the First Prize for Scientific and Technological Progress in the Guangdong Province, the First Prize for Technological Invention in Guangdong Science and Technology Award, the Excellence Award of China Patent Award, the Honorable Mention Award of China Quality Award, and the Guangdong Provincial Government Quality Award.

3100+
Patented Technologies

100000+
Products

19↑
Provinces

30+
Production Bases

Equipment Advantages

To meet market demands, Guangdong Lesso Stainless Steel Pipe Co., Ltd., a subsidiary of LESSO Group, has taken the lead in introducing industry-advanced automated production lines, including pickling and passivation lines and electrophoretic coating lines, with a level of precision and intelligence that stands at the forefront of the industry. The company also works in close cooperation with equipment suppliers for co-design and optimization, and was among the first to adopt auxiliary equipment, including automatic loading and unloading machines, automatic polishing machines, automatic film-coating machines, automatic packaging machines, and water pipe pressure testers. These pieces of equipment have now become standard in the industry. In addition, the company is equipped with steel strip production lines, including rolling mills, annealing furnaces, and slitting machines to ensure that the steel strip meets welding requirements and improves the yield of welded tubes and pipes. For improved production efficiency, the company also has wide-thick steel strip slitting machines, large-diameter thick-wall pipe laser cutting machines, and other equipment.

Steel Strip Processing Line Before Welding


Steel Strip Rolling


Steel Strip Annealing


Steel Strip Slitting

Surface Processes


Online Annealing


Interior Polishing


Surface Plastic Coating

Automatic Production Equipment


Automatic Loading and Unloading Machine


Automatic Polishing Machine


Automatic Packaging Machine

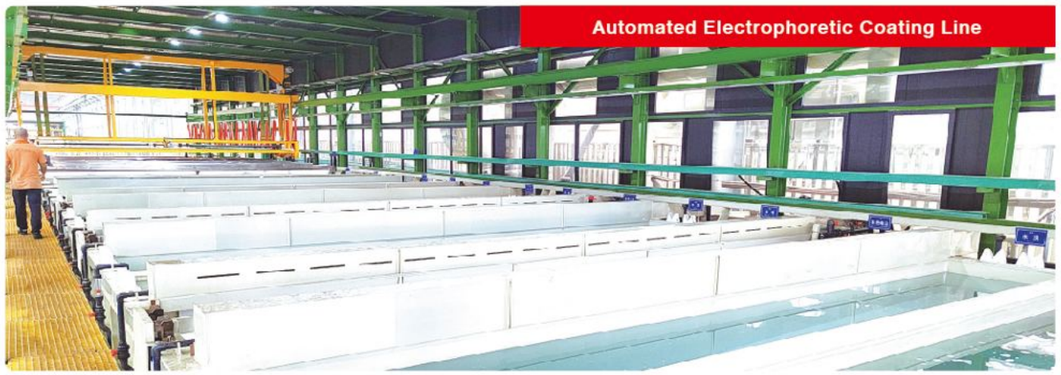
Quality Inspection Equipment


Desktop Spectrometer


Underwater Air Tightness Testing


Laboratory


Automated Pickling and Passivation Line


Automated Electrophoretic Coating Line


Large-Diameter Thick-Wall Pipe Laser Cutting Machine

Production Equipment

Over 130 automatic, large-scale, and industrial-grade welded pipe production lines deliver consistent product quality and high manufacturing efficiency.



Finished Product Inventory

A standing inventory of 10,000+ tons of finished products facilitates quick fulfillment of diverse market demands, providing customers with high-quality products characterized by cost savings, short delivery cycles, and multiple specifications.



RAW MATERIAL CONTROL

LESSO stainless steel pipes and tubes are manufactured using 100% national standard refined stainless steel raw materials that are purchased from well-known domestic steel mills such as Qingshan, Zhangpu, Baosteel and TISCO. This rigorous sourcing guarantees superior product quality from the very origin.

10,000+ tons
Raw Material Inventory

140+ lines
Welded Pipe Units

10,000+ tons
Steel Pipe Inventory

Product Standards



Product	Standard No.	Standard
Welded Stainless Steel for Fluid Transport (DN15~DN200)	GB/T 12771-2019	Welded Stainless Steel Pipes for Fluid Transport
	YB/T 4370-2023	Welded Stainless Steel Tubes for City Gas Supply
	YB/T 4204-2020	Welded Stainless Steel Pipes for Water Supply
Welded Stainless Steel Pipes for Fluid Transport (DN250~DN500)	GB/T12771-2019	Welded Stainless Steel Pipes for Fluid Transport
	QB/T 2467-2017	Stainless Steel Tubes for the Food Industry
	HG 20537.3-92	Technical Requirements for Welded Austenitic Stainless Steel Pipes for Chemical Apparatus
Structural Welded Stainless Steel Tubes	GB/T 12770-2012	Welded Stainless Steel Tubes for Mechanical Structures
	ASTM A554	Standard Specification for Welded Stainless Steel Mechanical Tubing
	JIS G 3446	Stainless Steel Tubes for Mechanical Structures

Quality Control

Raw Material Warehousing
Inspect steel coil quality including material, specifications, composition, and surface quality to confirm raw materials compliance with production standards, preventing quality issues at the source.

Rolling
Monitor pressure, speed, and steel strip thickness during cold rolling, and inspect output for thickness and surface quality to confirm compliance with specifications and requirements for the next process.

Annealing
Monitor annealing temperature and time, and inspect output for uniformity and properties to confirm compliance with specifications and requirements for the next process.

Slitting
Monitor the slitting process, and inspect output for width, edge quality, and surface quality to confirm compliance with specifications and requirements for the next process.

Pipe Welding
Monitor welding temperature, speed, and power, and inspect weld seam quality for defects such as cracks, porosity, or slag inclusion, ensuring that weld seam uniformity and strength meet requirements.

Surface Treatment
Monitor key parameters during the treatment process, and inspect the pipe body surface to confirm the treatment achieves the expected effect and meets relevant standards and customer requirements.

Quality Inspection
Conduct final inspection on the pipe body, weld seams, and surface to confirm that pipe quality and performance meets all standards and requirements.

Packaging
Inspect packaging material quality to confirm compliance with all standards and requirements, and supervise the packaging process to ensure correct packaging methods, accurate labels, and right identification information.

Finished Product Delivery
Verify product details against the order to ensure accurate dispatch. Supervise loading and coordinate with logistics to ensure safe and undamaged transportation. And proactively respond to customer feedback.

Participate in Standard Development



GB/T 12771-2019	Welded Stainless Steel Pipes for Fluid Transport
GB/T 14976-2012	Seamless Stainless Steel Pipes for Fluid Transport
GB/T 21832.2-2018	Welded Austenitic-Ferritic (Duplex) Stainless Steel Tubes and Pipes—Part 2: Pipes for Fluid Transport
HG/T 20537.4-1992	Selection Specifications for Welded Austenitic Stainless Steel Pipes
JG/T 539-2017	Welded Stainless Steel Tubes for Building
ASTM A312-2022	Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
GB/T 42675-2023	Welded Antibacterial Stainless Steel Pipes and Fittings
T/GDSS 011.1-2023	Technical Specification for Installation of Stainless Steel Hot Water Pipes
T/GDSS 008-2022	Technical Specification for Installation of Stainless Steel Pipes
T/GDSS 006-2021	Specifications for the Construction of Trustworthy Management Demonstration Units in the Stainless Steel Industry
YB/T 4370-2023	Welded Stainless Steel Tubes for City Gas Supply
T/GDSS 010.1-2023	Technical Specification for Installation of Stainless Steel Fire Pipes
T/GDSS 010.1-2023	Technical Specification for Installation of Stainless Steel Pipes for Water Supply
T/GDSSO 04-2019	Supports and Hangers for Installation of Stainless Steel Pipes
T/GDSS 009-2021	Evaluation Specification for Demonstration Point of Safe Consumption in the Stainless Steel Industry

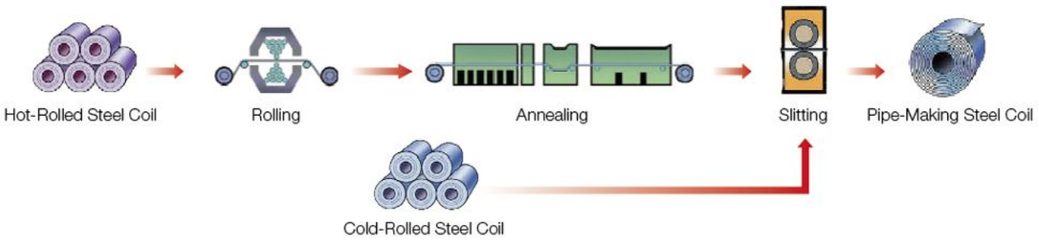
	Standardized Designations	S30408	S30403	S31603	S35350	S32001
Material	New Grade	06Cr19Ni10	022Cr19Ni10	022Cr17Ni12Mo2	12Cr17Mn6Ni5N	/
	Old Grade	0Cr18Ni9	00Cr19Ni10	00Cr17Ni14Mo2	1Cr17Mn6Ni5N	/
	USA	S30400,304L	S30403,304L	S31603,316L	S20100，201	/
	Japan	SUS 304L	SUS 304L	SUS 316L	SUS 201	/
Chemical Composition (GB/T12771-2019, GB/T12770-2012) (Unit: ≤ Mass Fraction)	C	0.08	0.030	0.030	0.15	0.030
	Si	1.00	1.00	1.00	1.00	1.00
	Mn	2.00	2.00	2.00	5.50~7.50	4.00~6.00
	P	0.045	0.045	0.045	0.050	/
	S	0.030	0.030	0.030	0.030	/
	Cr	18.00~20.00	18.00~20.00	16.00~18.00	16.00~18.00	19.50~21.50
	Ni	8.0~11.00	8.00~12.00	10.00~14.00	3.50~5.50	1.00~3.00
	N0	/	/	2.00~3.00	/	0.60
	Cu	/	/	/	/	1.00
	Others	/	/	/	0.05~0.25N	0.05~0.17N
Applications		Structural tubes for coastal and high-humidity areas	Piping systems and fittings for transport of low-corrosion fluids (e.g., water, natural gas); suitable for structural tubes	Pipes for coastal and high-humidity areas; piping systems and fittings with higher corrosion resistance requirements	Pipes for inland and high-humidity areas	Structural tubes



Production Process

Quality is the core pledge of the company. Here, quality is the shared responsibility of every employee. The company encourages employees to identify issues and put forward suggestions for the continuous optimization and improvement of the quality assurance system and control processes. Through a company-wide quality management system, the company ensures that it always stays on the right path of quality improvement. The company has its own quality laboratory equipped with advanced instruments, and maintains close cooperation with national-level laboratories to meet all inspection and testing requirements.

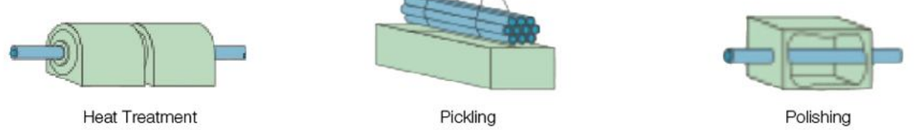
Raw Material Processing



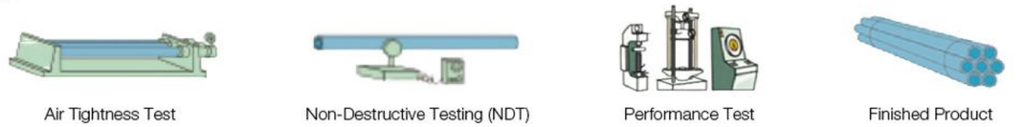
Pipe Welding



Surface Treatment



Testing



Warehousing and Dispatch



Product Introduction

Structural Welded Stainless Steel Tubes

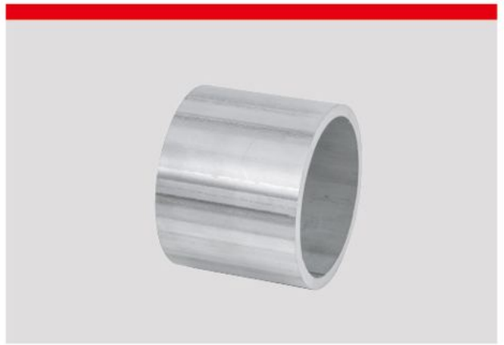
Structural welded stainless steel tubes produced by the company include round and square/rectangular tubes for structural use, with a wide range of applications in the manufacturing of mechanical components and structural parts for various industries such as machinery, automotive, furniture, and prefabricated construction. Based on customer requirements, products can undergo processes such as annealing, pickling, polishing, brushing, and satin finishing, and weld seams can be inspected through non-destructive testing methods such as eddy current and radiographic testing. The company can produce products in compliance with multiple standards, including Chinese standards (GB), ASTM, and JIS, and provide OEM services to meet the diversified needs of the international market.



Structural Welded Stainless Steel Tubes



● Round Tube - Hot-Rolled Surface



● Round Tube - Pickled Surface



● Hot-Rolled Square Tube Surface



● Pickled Square Tube Surface



● Square Tube - Hot-Rolled Surface



● Rectangular Tube - Pickled Surface

Application Scenarios











Structural Welded Stainless Steel Tubes











Specifications of Structural Welded Stainless Steel Square/Rectangular Tubes

Execution Standard: JG/T539-2017

Type	Specification/Thickness	2.50	3.00	3.50	4.00	5.00	6.00	8.00
	Actual Thickness	2.25-2.50	2.70-3.00	3.15-3.50	3.60-4.00	4.50-5.00	5.50-6.00	7.20-8.00
Square	19x19	√	√					
Square	22x22	√	√					
Square	25x25	√	√					
Square	30x30	√	√					
Square	38x38	√	√	√	√			
Square	40x40	√	√	√	√			
Square	45x45	√	√	√	√			
Square	50x50	√	√	√	√			
Square	60x60	√	√	√	√			
Square	70x70	√	√	√	√	√		
Square	80x80	√	√	√	√	√		
Square	100x100	√	√	√	√	√		
Square	120x120	√	√	√	√	√	√	√
Square	150x150	√	√	√	√	√	√	√
Square	200x200	√	√	√	√	√	√	√
Square	250x250	√	√	√	√	√	√	√
Square	300x300	√	√	√	√	√	√	√
Square	350x350	√	√	√	√	√	√	√
Rectangular	30x20	√	√					
Rectangular	38x25	√	√					
Rectangular	40x20	√	√					
Rectangular	40x30	√	√					
Rectangular	50x25	√	√	√	√			
Rectangular	50x30	√	√	√	√			
Rectangular	50x40	√	√	√	√			
Rectangular	60x30	√	√	√	√			
Rectangular	60x40	√	√	√	√			
Rectangular	60x50	√	√	√	√			
Rectangular	70x30	√	√	√	√			
Rectangular	70x40	√	√	√	√			
Rectangular	70x50	√	√	√	√			
Rectangular	75x45	√	√	√	√			
Rectangular	80x20	√	√	√	√			
Rectangular	80x30	√	√	√	√			
Rectangular	80x40	√	√	√	√			
Rectangular	80x50	√	√	√	√			
Rectangular	80x60	√	√	√	√			
Rectangular	95x45	√	√	√	√			
Rectangular	100x40	√	√	√	√			
Rectangular	100x50	√	√	√	√	√		
Rectangular	100x60	√	√	√	√	√		
Rectangular	100x80	√	√	√	√	√		
Rectangular	120x60	√	√	√	√	√		
Rectangular	120x80	√	√	√	√	√		
Rectangular	150x100	√	√	√	√	√	√	√
Rectangular	200x100	√	√	√	√	√	√	√
Rectangular	200x150	√	√	√	√	√	√	√
Rectangular	250x100	√	√	√	√	√	√	√
Rectangular	250x200	√	√	√	√	√	√	√
Rectangular	300x100	√	√	√	√	√	√	√
Rectangular	300x150	√	√	√	√	√	√	√
Rectangular	300x200	√	√	√	√	√	√	√
Rectangular	400x100	√	√	√	√	√	√	√
Rectangular	400x150	√	√	√	√	√	√	√
Rectangular	400x200	√	√	√	√	√	√	√
Rectangular	400x300	√	√	√	√	√	√	√

Note: Other specifications can be customized.

Structural Welded Stainless Steel Tubes

Specifications of Structural Welded Stainless Steel Round Tubes

Type	Specification/Thickness	2.50	3.00	3.50	4.00	5.00	6.00	8.00
	Actual Thickness	2.25-2.50	2.70-3.00	3.15-3.50	3.60-4.00	4.50-5.00	5.50-6.00	7.20-8.00
Round	19	√	√					
Round	22	√	√					
Round	25	√	√					
Round	31.8	√	√					
Round	38	√	√					
Round	40	√	√					
Round	42	√	√					
Round	45	√	√					
Round	48	√	√					
Round	50.8	√	√					
Round	60	√	√					
Round	63	√	√					
Round	70	√	√					
Round	76	√	√	√	√	√	√	
Round	80	√	√	√	√	√	√	
Round	89	√	√	√	√	√	√	
Round	102	√	√	√	√	√	√	
Round	108	√	√	√	√	√	√	
Round	114	√	√	√	√	√	√	
Round	127	√	√	√	√	√	√	
Round	133	√	√	√	√	√	√	
Round	141	√	√	√	√	√	√	
Round	159	√	√	√	√	√	√	
Round	168	√	√	√	√	√	√	
Round	219	√	√	√	√	√	√	
Round	254	√	√	√	√	√	√	
Round	273	√	√	√	√	√	√	
Round	318	√	√	√	√	√	√	
Round	325	√	√	√	√	√	√	√
Round	356	√	√	√	√	√	√	√
Round	377	√	√	√	√	√	√	√
Round	406	√	√	√	√	√	√	√
Round	426	√	√	√	√	√	√	√
Round	456	√	√	√	√	√	√	√
Round	480	√	√	√	√	√	√	√
Round	508	√	√	√	√	√	√	√
Round	530	√	√	√	√	√	√	√
Round				√	√	√	√	√
Round				√	√	√	√	√
Round				√	√	√	√	√
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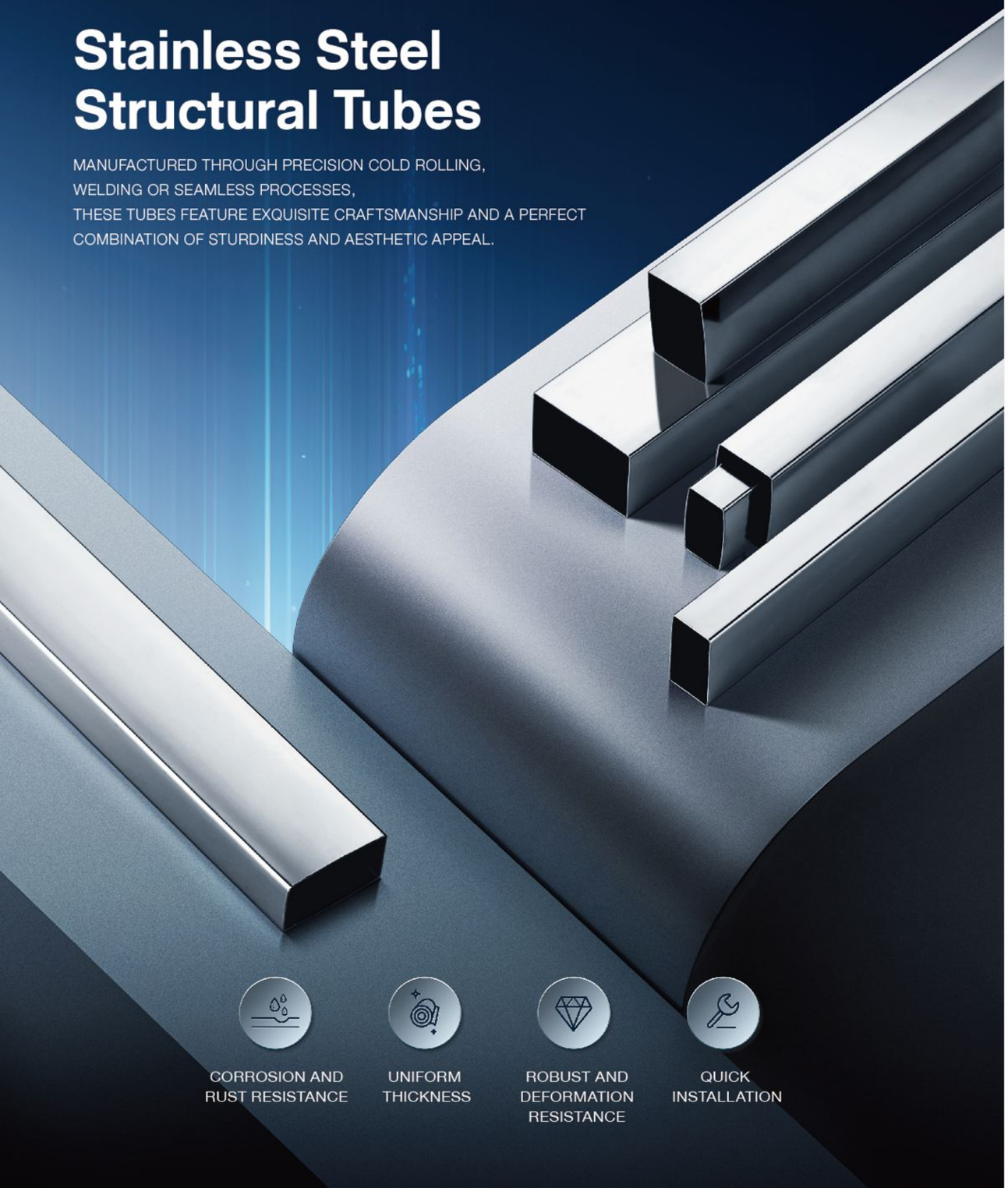
Note: Other specifications can be customized.

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Stainless Steel Structural Tubes

MANUFACTURED THROUGH PRECISION COLD ROLLING,
WELDING OR SEAMLESS PROCESSES,
THESE TUBES FEATURE EXQUISITE CRAFTSMANSHIP AND A PERFECT
COMBINATION OF STURDINESS AND AESTHETIC APPEAL.



CORROSION AND RUST RESISTANCE

UNIFORM THICKNESS

ROBUST AND DEFORMATION RESISTANCE

QUICK INSTALLATION