

# PIPE & TUBE

Stainless Steel pipe and tube Catalogue

**DAXUN**

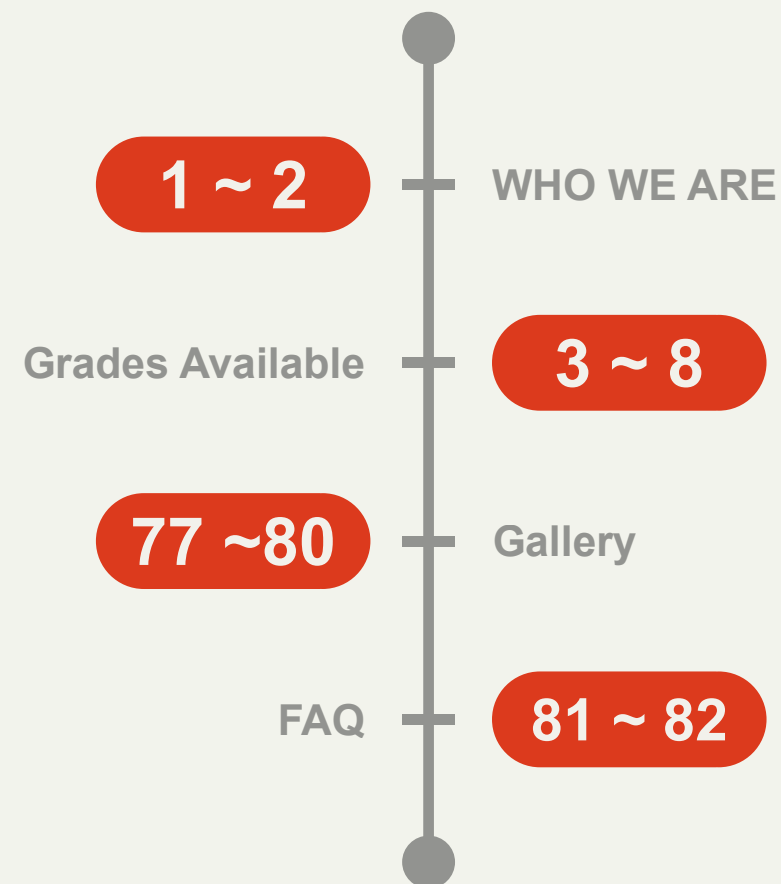
High-quality pipes



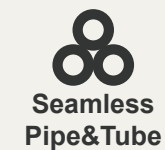
Seamless Pipe & Tube  
Welded Pipe & Tube  
Thick-walled Pipe & Tube  
Capillary Tube  
Sanitary Pipe & Tube  
Square Pipe & Tube  
Rectangle Pipe & Tube  
Coil Tube

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# WHO WE ARE

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## About Daxun

Daxun is a vertically integrated global manufacturer of metal products and complementary technologies.

Market leader in the manufacture of highly engineered critical fasteners for sheet metal coils, metal tubing, forged metals, marine, energy, military, general industrial, and aerospace applications.

In addition, it produces extruded seamless pipe, plate, forgings and composite products for power generation and oil and gas applications; commercial and military alloy products; and metal alloys and other materials to the foundry and forging industries.

## Our product features

Our time-tested Stainless steel



Main Grades of Stainless Steel Pipe & Tube

304

AISI304, SUS304, S30400, 1.4301

≤0.08%

≤2.00%

≤0.030%

18.0%~20.0%

Remainder

C

Si

Mn

P

S

Ni

Cr

N

Fe

≤0.75%

≤0.045%

8.0%~10.5%

≤0.10%

304L

AISI304L, SUS304L, S30403, 1.4306

≤0.03%

≤2.00%

≤0.030%

18.0%~20.0%

Remainder

C

Si

Mn

P

S

Ni

Cr

N

Fe

≤0.75%

≤0.045%

8.0%~12.0%

≤0.10%

316

AISI316, SUS316, S31600, 1.4401

≤0.08%

≤2.00%

≤0.030%

16.0%~18.0%

≤0.10%

C

Si

Mn

P

S

Ni

Cr

Mo

N

Fe

≤0.75%

≤0.045%

10.0%~14.0%

2.0%~3.0%

Remainder

316L

AISI316L, SUS316L, S31603, 1.4404

≤0.03%

≤2.00%

≤0.030%

16.0%~18.0%

≤0.10%

C

Si

Mn

P

S

Ni

Cr

Mo

N

Fe

≤0.75%

≤0.045%

10.0%~14.0%

2.0%~3.0%

Remainder

321

AISI321, SUS321, S32100, 1.4541

≤0.08%

≤2.00%

≤0.030%

17.0%~19.0%

≤0.10%

Remainder

C

Si

Mn

P

S

Ni

Cr

Ti

N

Fe

≤0.75%

≤0.045%

9.0%~12.0%

5x(C%+N%)~0.70%

316Ti

AISI316Ti, SUS316Ti, S31635, 1.4571

≤0.08%

≤2.00%

≤0.030%

16.0%~18.0%

5x(C%+N%)~0.70%

C

Si

Mn

P

S

Ni

Cr

Mo

Ti

N

Fe

≤0.75%

≤0.045%

10.0%~14.0%

2.0%~3.0%

≤0.10%

Remainder

317L

AISI317L, SUS317L, S31726, 1.4438

≤0.03%

≤2.00%

≤0.030%

18.0%~20.0%

≤0.10%

C

Si

Mn

P

S

Ni

Cr

Mo

N

Fe

≤0.75%

≤0.045%

11.0%~15.0%

3.0%~4.0%

Remainder

310S

AISI310S, SUS310S, S31008, 1.4845

≤0.08%

≤2.00%

≤0.030%

24.0%~26.0%

C

Si

Mn

P

S

Ni

Cr

Fe

≤1.50%

≤0.045%

19.0%~22.0%

Remainder

347

AISI347, SUS347, S34700, 1.4550

≤0.08%

≤2.00%

≤0.030%

17.0%~19.0%

Remainder

C

Si

Mn

P

S

Ni

Cr

Nb

Fe

≤0.75%

≤0.045%

9.0%~13.0%

10xC%~1.00%

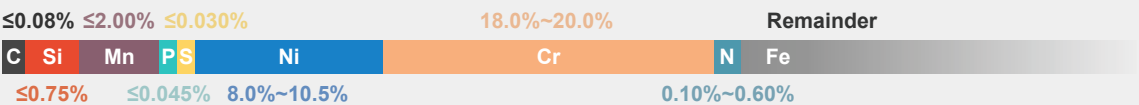
Main Grades of Stainless Steel Pipe & Tube

S31803										F51, SUS329J3L, 1.4462																			
≤0.03% ≤2.00% ≤0.020%										21.0%~23.0%										0.08%~0.20%									
C Si Mn PS Ni										Cr										Mo N Fe									
≤1.00% ≤0.030% 4.5%~6.5%																				2.5%~3.5% Remainder									
S32205										2205, SUS329J3L, F51, 1.4462																			
≤0.03% ≤2.00% ≤0.020%										22.0%~23.0%										0.14%~0.20%									
C Si Mn PS Ni										Cr										Mo N Fe									
≤1.00% ≤0.030% 4.5%~6.5%																				3.0%~3.5% Remainder									
S32750										2507, NAS74N, F53, 1.4410																			
≤0.03% ≤1.20% ≤0.020%										24.0%~26.0%										≥0.50% Remainder									
C Si Mn PS Ni										Cr										Mo Cu N Fe									
≤0.80% ≤0.035% 6.0%~8.0%																				3.0%~5.0% 0.24%~0.32%									
904L										AISI904L, SUS904L, N08904, 1.4539																			
≤0.02% ≤2.00% ≤0.035%										19.0%~23.0%										1.0%~2.0%									
C Si Mn PS Ni										Cr										Mo Cu N									
≤1.00% ≤0.045% 23.0%~28.0%																				4.0%~5.0% ≤0.10%									
254SMo										AISI254SMo, SUS254SMo, S31254, 1.4547																			
≤0.02% ≤1.00% ≤0.010%										19.5%~20.5%										0.5%~1.0% Remainder									
C Si Mn PS Ni										Cr										Mo Cu N									
≤0.80% ≤0.030% 17.5%~18.5%																				6.0%~6.5% ≤0.10%									
17-4PH										AISI630, SUS630, S17400, 1.4542																			
≤0.07% ≤1.00% ≤0.030%										15.0%~17.5%										Nb+Ta: 0.15%~0.45%									
C Si Mn PS Ni										Cr										Cu Nb Ta Fe									
≤1.00% ≤0.040% 3.0%~5.0%																				3.0%~5.0% Remainder									
253MA										AISI253MA, SUS253MA, S30815, 1.4835																			
5%~0.10% ≤2.00% ≤0.030%										20.0%~22.0%										Remainder									
C Si Mn PS Ni										Cr										Ce Fe									
1.40%~2.20% ≤0.040% 10.0%~12.0%																				0.03%~0.08%									
301										AISI301, SUS301, S30100, 1.4319																			
≤0.15% ≤2.00% ≤0.030%										16.0%~18.0%										Remainder									
C Si Mn PS Ni										Cr										N Fe									
≤1.00% ≤0.045% 6.0%~8.0%																				≤0.10%									
302										AISI302, SUS302, S30200, 1.4318																			
≤0.15% ≤2.00% ≤0.030%										17.0%~19.0%										Remainder									
C Si Mn PS Ni										Cr										N Fe									
≤0.75% ≤0.045% 8.0%~10.0%																				≤0.10%									

Main Grades of Stainless Steel Pipe & Tube

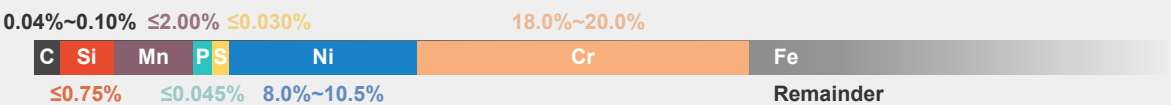
304N

AISI304N, SUS304N1, S30451, 1.4315



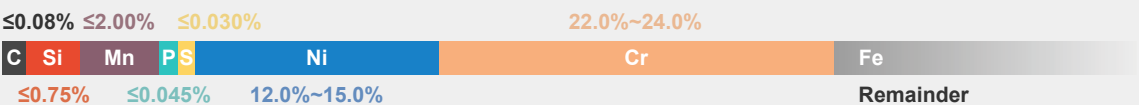
304H

AISI304H, SUS304, S30409, 1.4948



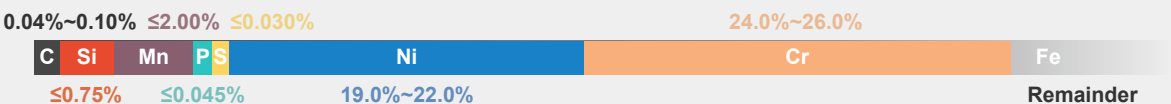
309S

AISI309S, SUS309S, S30908, 1.4833



310H

AISI310H, SUS310H, S31009, 1.4845



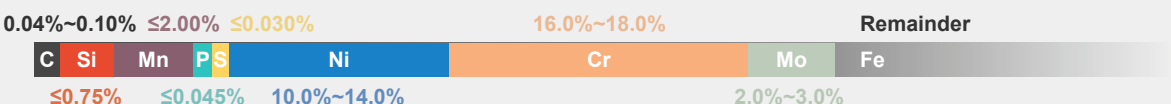
316LN

AISI316LN, SUS316LN1, S31653, 1.4429



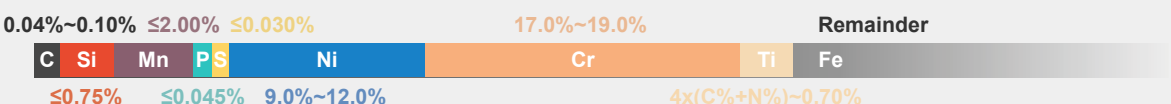
316H

AISI316H, SUS316H, S31609, 1.4436



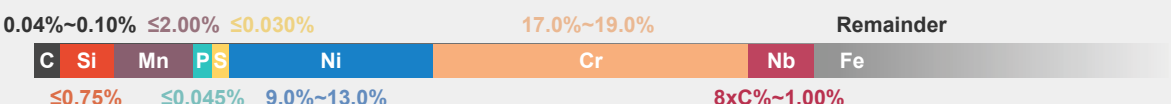
321H

AISI321H, SUS321H, S32109, 1.4541



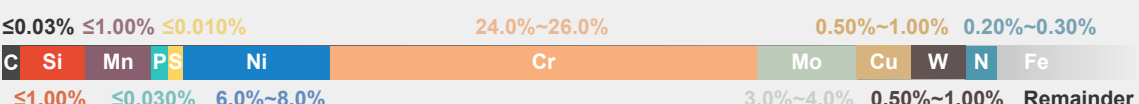
347H

AISI347H, SUS347H, S34709, 1.4912



S32760

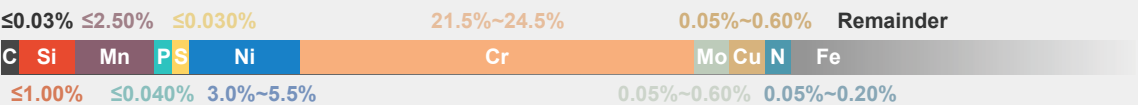
F55, 1.4501



Main Grades of Stainless Steel Pipe & Tube

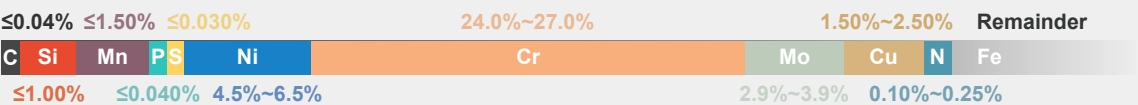
S32304

2304, DP11, 1.4362



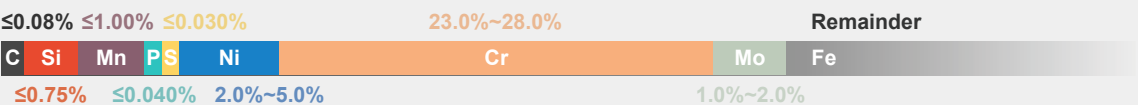
S32550

255, SUS329J4L, QSA2505, 1.4507



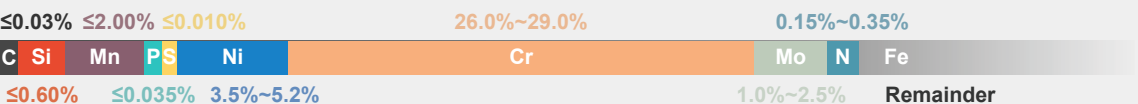
S32900

329, SUS329J1, 1.4477



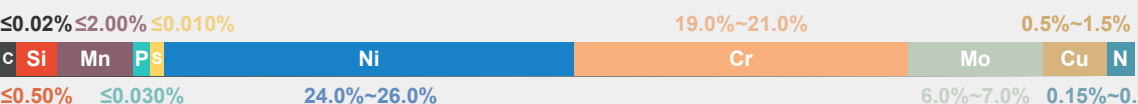
S32950

F52



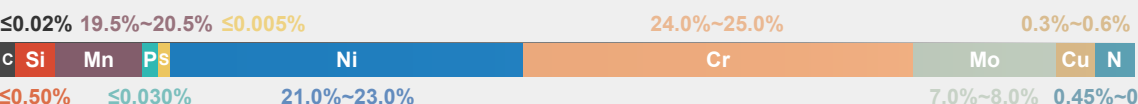
926

AISI926, SUS926, N08926, 1.4529



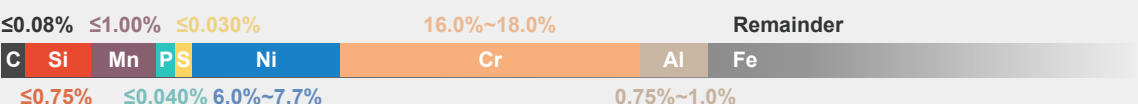
654SMo

AISI654SMo, SUS654SMo, S32654, 1.4652



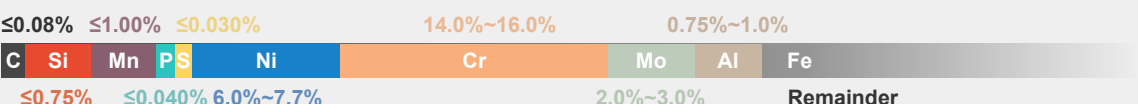
17-7PH

AISI631, SUS631, S17700, 1.4568



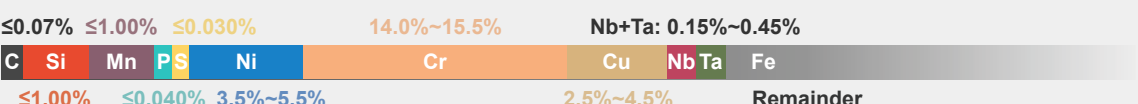
PH15-7Mo

AISI630, SUS630, S15700, 1.4542



15-5PH

S15500



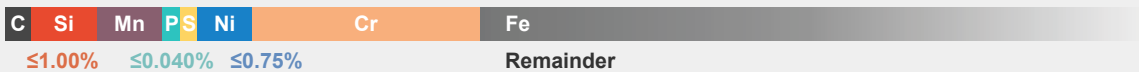


Main Grades of Stainless Steel Pipe & Tube

410

AISI410, SUS410, S41000, 1.4006

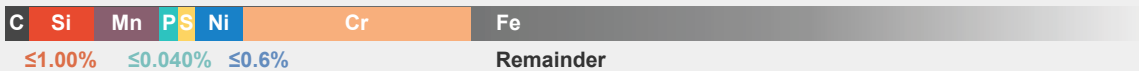
0.08%~0.15% ≤1.00% ≤0.030% 11.5%~13.5%



410S

AISI410S, SUS410S, S41008, 1.4000

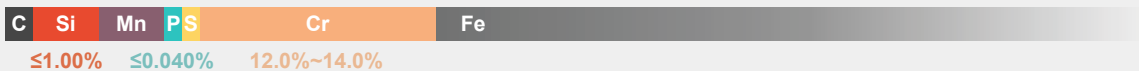
≤0.08% ≤1.00% ≤0.030% 11.5%~13.5%



420

AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000

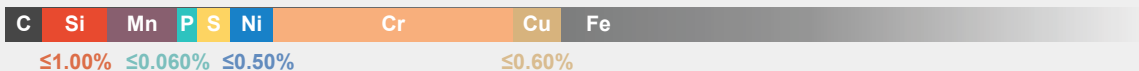
≥0.15% ≤1.00% ≤0.030% Remainder



420F

AISI420F, SUS420F, S42020, 1.4029

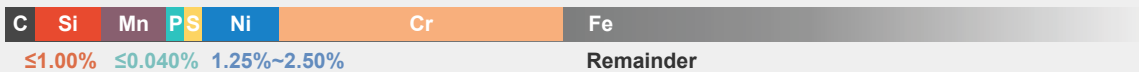
0.30%~0.40% ≤1.50% 0.20%~0.34% 12.5%~14.0% Remainder



431

AISI431, SUS431, S43100, 1.4057

≤0.20% ≤1.00% ≤0.030% 15.0%~17.0%



440A

AISI440A, SUS440A, S44002

0.60%~0.75% ≤1.00% ≤0.030% ≤0.75%



440B

AISI440B, SUS440B, S44003, 1.4112

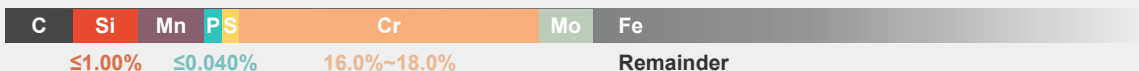
0.75%~0.95% ≤1.00% ≤0.030% ≤0.75%



440C

AISI440C, SUS440C, S44004, 1.4125

0.95%~1.20% ≤1.00% ≤0.030% ≤0.75%



409(L)

AISI409, AISI409L, SUH409, SUH409L, S40900, 1.4512

≤0.03% ≤1.00% ≤0.020% 10.5%~11.7% ≤0.50% Remainder

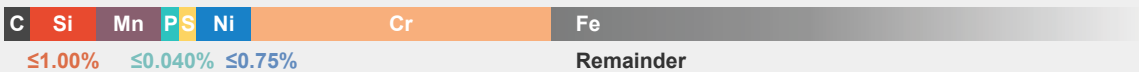


Main Grades of Stainless Steel Pipe & Tube

430

AISI430, SUS430, S43000, 1.4016

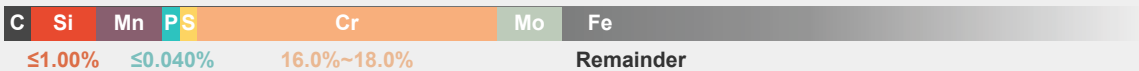
≤0.12% ≤1.00% ≤0.030% 16.0%~18.0%



434

AISI434, SUS434, S43400, 1.4113

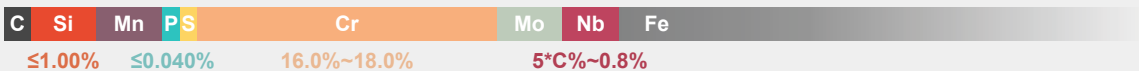
≤0.12% ≤1.00% ≤0.030% 0.75%~1.25%



436

AISI436, SUS436, S43600, 1.4536

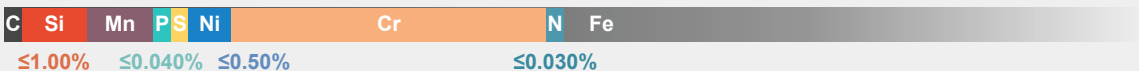
≤0.12% ≤1.00% ≤0.030% 0.75%~1.25% Remainder



439

AISI439, SUS430LX, S43035, 1.4510

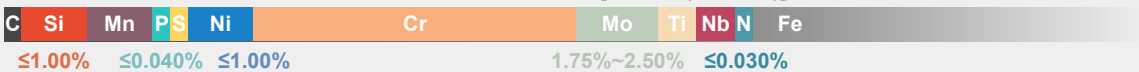
≤0.03% ≤1.00% ≤0.030% 17.0%~19.0% Remainder



444

AISI444, SUS444, S44400, 1.4521

≤0.25% ≤1.00% ≤0.030% 17.5%~19.5% Ti+Nb: [0.20+4x(C%+N%)]~0.80% Remainder



# ***DAXUN***





## Specifications

- Outer Diameter:  $\Phi 4$ - $\Phi 1219$ mm (Minimum - Maximum)
- Wall Thickness: 0.5-100mm (Minimum – Maximum)
- Length: 24000mm (Maximum)
- \*Customized size needs to be confirmed with us

## Standards

- American Standard: ASTM A312, ASME SA269, ASTM A269, ASME SA213, ASTM A213, ASTM A511, ASTM A789, ASTM A790
- Germany Standard: DIN2462.1-1981, DIN17456-85, DIN17458-85
- Japanese Standard: JIS G3463-2006, JIS G3459-2012
- Russian Standard: GOST 9941-81
- GB Standard: GB14975, GB14976, GB95, GB13296, GB5310, GB9948, GB/T12771

## Applications

Home appliances, electric appliances, construction materials, medical equipment, auto parts, petroleum, chemical application, agricultural irrigation, edible oil refinery factories, paper plants, shipyard, nuclear power plant etc.

## Introduction

Daxun is a large stainless steel bar supplier in China that produces and manufactures a wide range of stainless steel seamless pipes. Our SS seamless pipe range is available in a variety of sizes and grades, all customizable. Choose Daxun to find the best stainless steel seamless pipes.

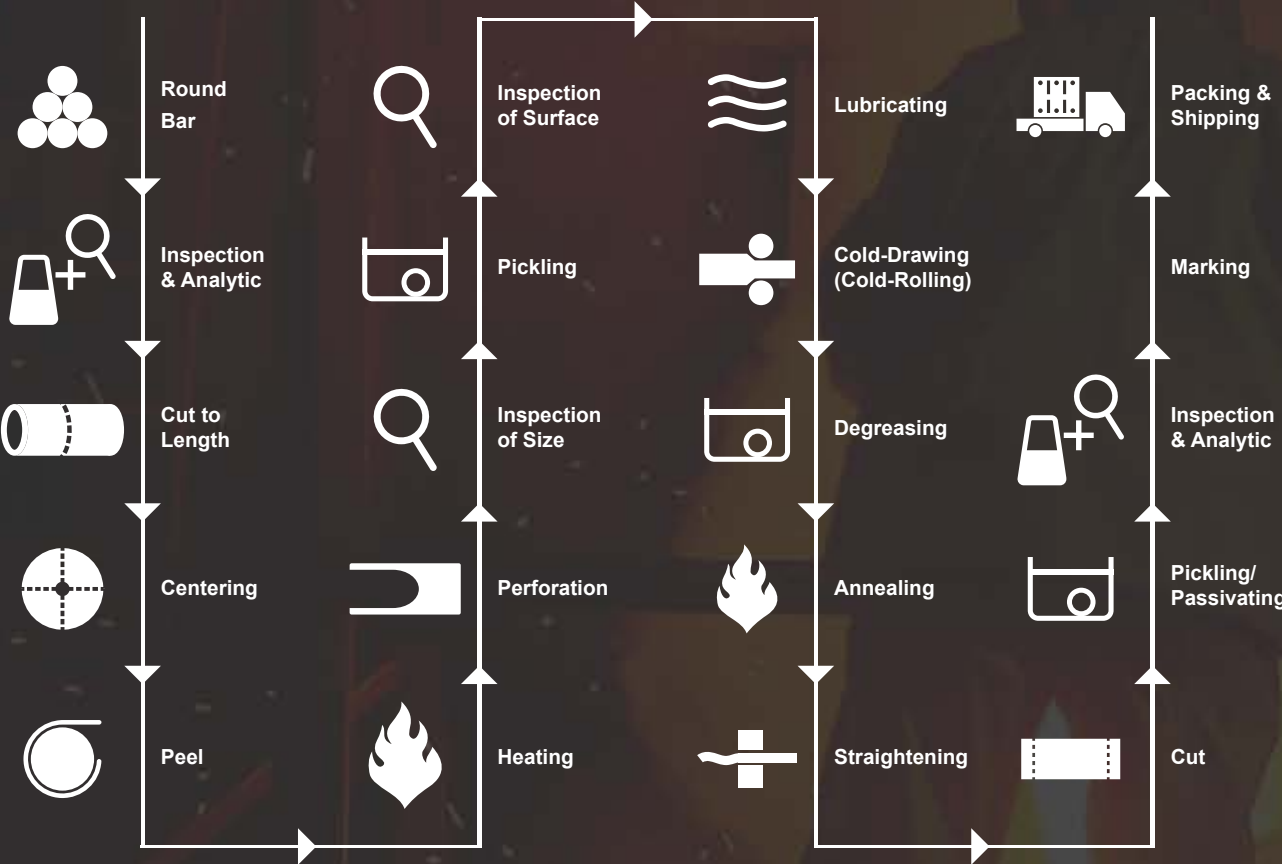
Daxun's stainless steel seamless pipe production capacity is about 3000 tons per month. We can produce according to your specifications using US, German, Japanese, Russian and local GB standards. While our austenitic (316, 316L, 316Ti, 317L, 321, 321H, 347, 904L) stainless steel seamless pipes are popular both at home and abroad, special alloy seamless pipes such as 904L, S31803, S32205, Duplex Steel, Super Duplex Steel, Nickel Alloy, Monel, Inconel, Incoloy and Hastelloy deserve special mention. They are becoming increasingly popular in the international market due to their excellent overall performance, reasonable prices and positive customer buying experience. We are glad to meet you again.

## Features

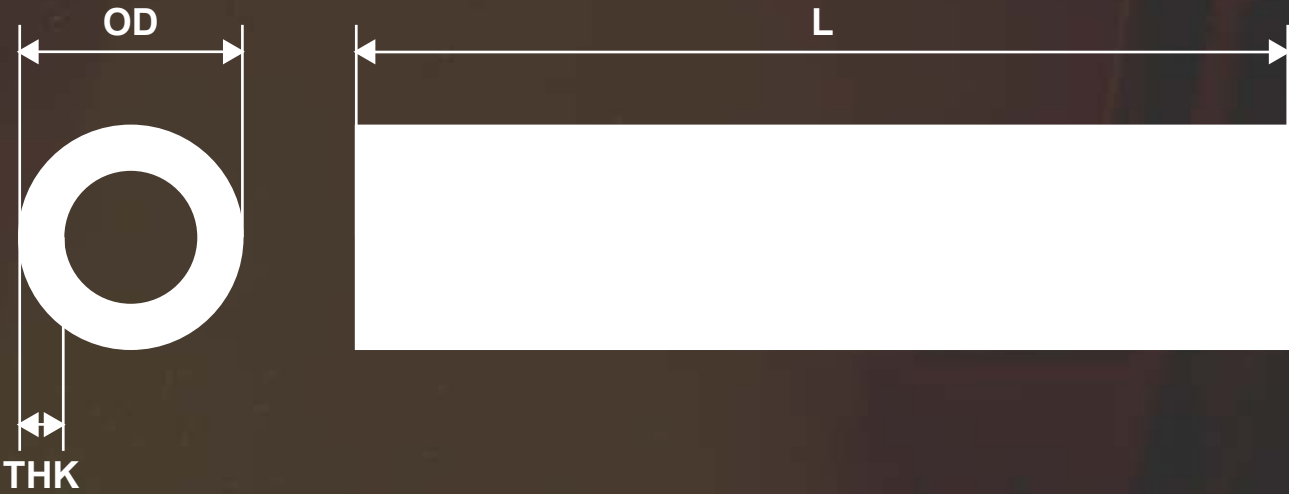
Anti-corrosion (the degree is susceptible to the alloys contained), heat-resistance, good cold and hot working properties, good toughness, good comprehensive performances and wide application.



# Manufacturing Process



# Drawing & Formula



## Formula:

$$m = (OD - THK) \times THK \text{ (mm)} \times L \text{ (m)} \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507

OD = Outer diameter, THK = Wall Thickness, L = Length

# Tolerance

ASTM A312

NPS Designator	Tolerance, % from Nominal	
	Over	Under
1⁄8 to 2½ incl., all t/D ratios	20	12.5
3 to 18 incl., t/D up to 5% incl.	22.5	12.5
3 to 18 incl., t/D > 5%	15	12.5
20 and larger, welded, all t/D ratios	17.5	12.5
20 and larger, seamless, t/D up to 5% incl.	22.5	12.5
20 and larger, seamless, t/D > 5%	15	12.5

ASTM A269

Group	Size, Outside Diameter, in.	Permissible Variations in Outside Diameter, in. (mm)	Permissible Variations in Wall Thickness, %	Permissible Variations in Cut Length, in. (mm)		Thin Walled Tubes
				Over	Under	
1	Up to 1⁄2	±0.005(0.13)	±15	1⁄8(3.2)	0	...
2	1⁄2 to 1½, excl	±0.005(0.13)	±10	1⁄8(3.2)	0	less than 0.065 in. (1.65 mm) nominal
3	1½ to 3½, excl	±0.010(0.25)	±10	3/16(4.8)	0	less than 0.095 in. (2.41 mm) nominal
4	3½ to 5½, excl	±0.015(0.38)	±10	3/16(4.8)	0	less than 0.150 in. (3.81 mm) nominal
5	5½ to 8, excl	±0.030(0.76)	±10	3/16(4.8)	0	less than 0.150 in. (3.81 mm) nominal
6	8 to 12, excl	±0.040(1.01)	±10	3/16(4.8)	0	less than 0.200 in. (5.08 mm) nominal
7	12 to 14, excl	±0.050(1.26)	±10	3/16(4.8)	0	less than 0.220 in. (5.59 mm) nominal

ASTM A213

NPS [DN] Designator	Tolerance in %, from specified	
	Over	Under
1⁄8 to 2½ [6 to 65] incl., all t/D ratios	20	12.5
Above 2½ [65], incl, t/D ≤ 5%	22.5	12.5
Above 2½ [65], incl, t/D > 5%	15	12.5

# Delivery State

Delivery State Choice	Surface Condition
HFD: Hot finished heat treated, descaled	Metallically Clean
CFD: Cold finished heat treated, descaled	Metallically Clean
CFA: Cold finished bright annealed	Metallically Bright
CFG: Cold finished heat treated, ground	Metallically bright-ground, the type and degree of roughness shall be agreed at the time of enquiry and order b
CFP: Cold finished heat treated, polished	Metallically bright-ground, the type and degree of roughness shall be agreed at the time of enquiry and order b
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	

# Package

Daxun packages all stainless steel seamless pipes in accordance with international standards to prevent damage and loss. We will use thick woven plastic bags to pack the finished pipes in groups. However, for specific pipes that are susceptible to dirt, scratches, pressure or rough handling, we recommend using wooden boxes for protection. Keep in mind that using wooden boxes may incur additional costs, including increased shipping costs, especially air freight. We provide customized packaging to meet your specific needs and enhance the customer experience.



Thick woven plastic bag



Wooden case

# Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



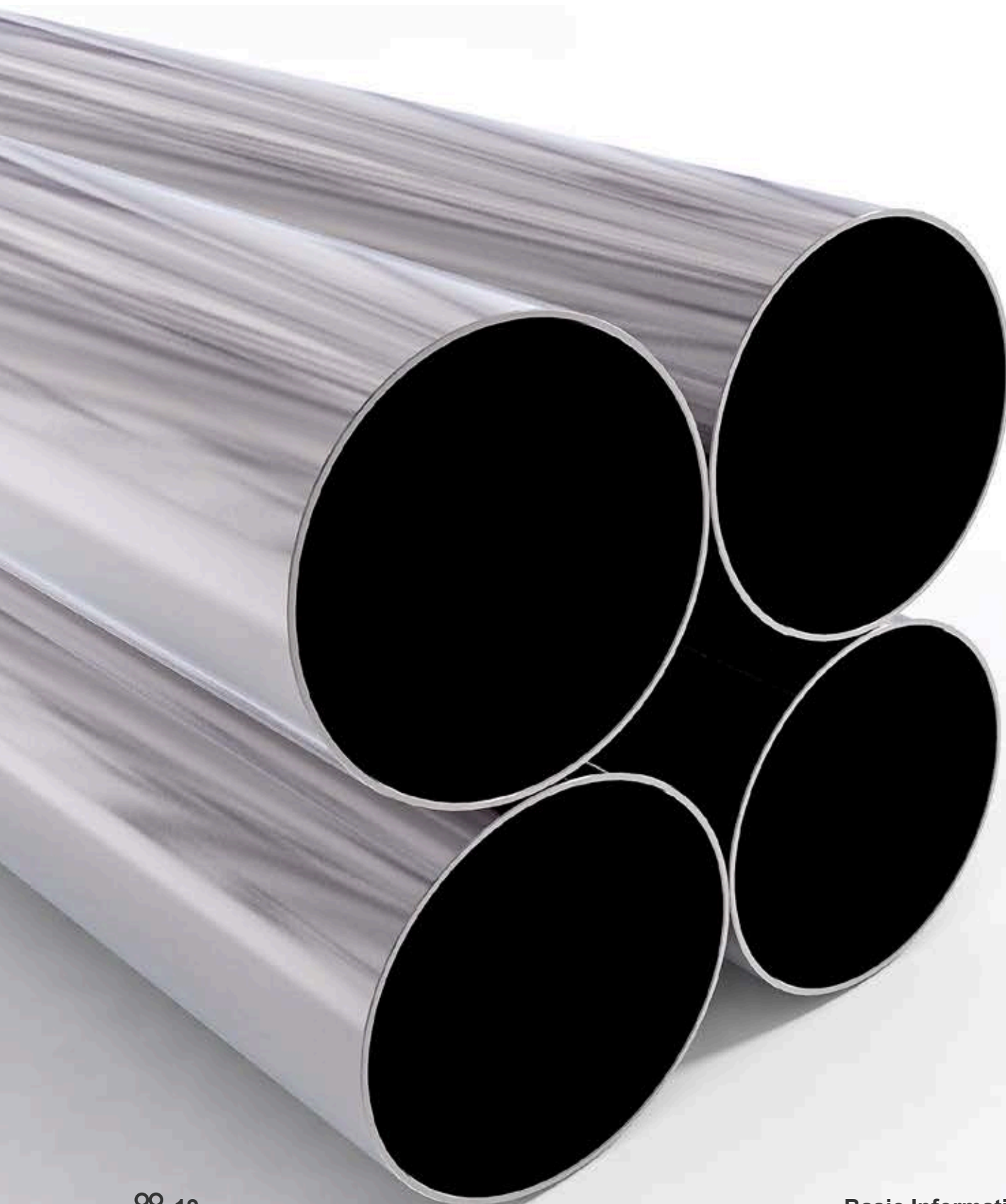
By sea



By air







## Specifications

- Outer Diameter:  $\Phi 6$ - $\Phi 2800$ mm (Minimum - Maximum)
- Wall Thickness: 0.3-45mm (Minimum – Maximum)
- Length: 18000mm (Maximum)
- \*Customized size needs to be confirmed with us

## Standards

- American Standard: ASTM A312, ASTM A358, ASTM A249, ASTM A269, ASTM A554, ASTM A790
- European Standard: DIN 17457
- Japanese Standard: JIS G3459
- GB Standard: GB/T12770-2002, GB/T12771-2008

## Applications

Industrial application such as petroleum, chemical, paper plant, sewage system, energy, dyeing workshop, mechanical and structural application, boiler heat exchange and others.

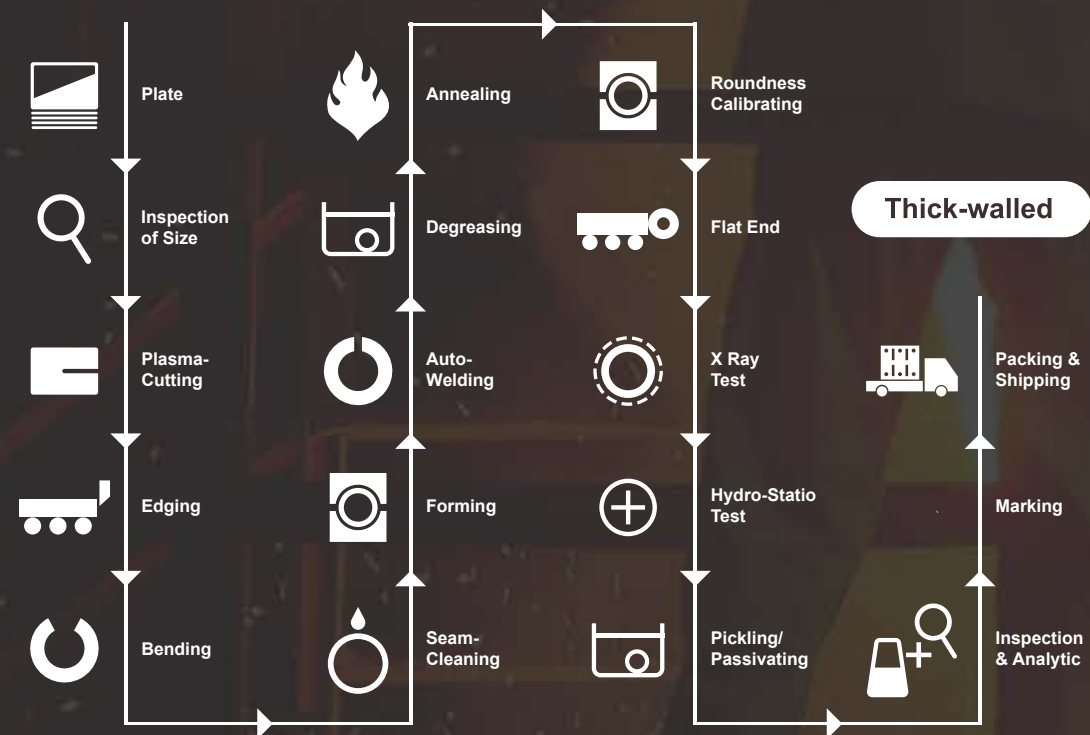
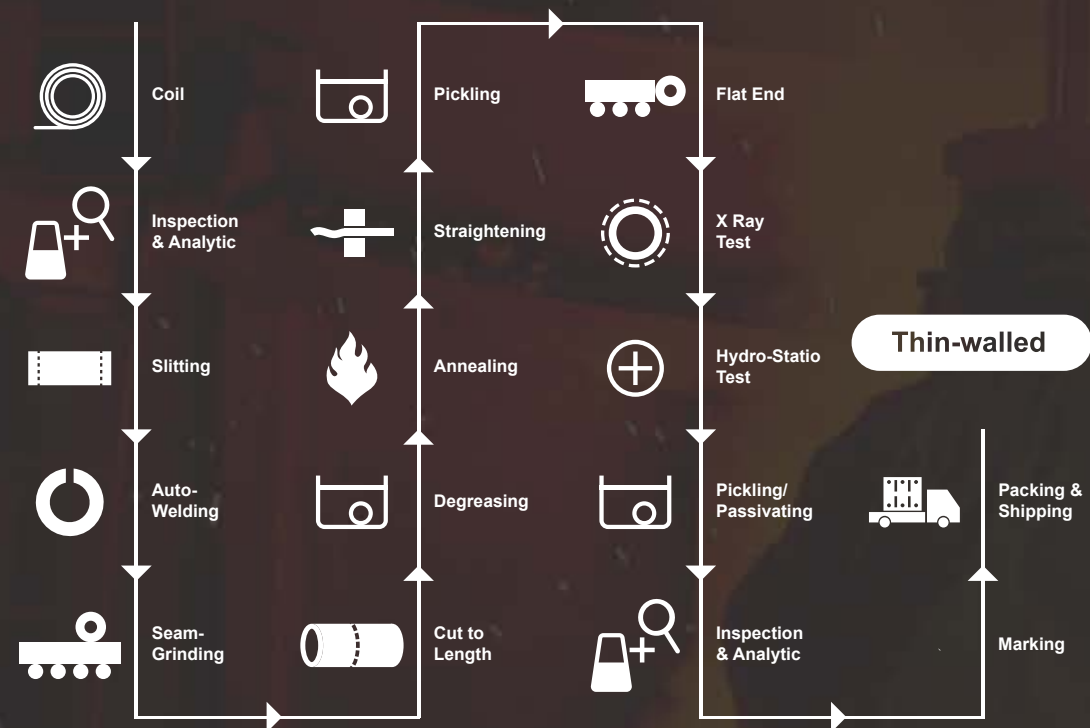
## Introduction

Daxun produces welded stainless steel pipes in many shapes, including round, square and rectangular. The delivery time of stainless steel welded pipes is significantly shorter compared to seamless pipes. We have a large inventory of common welded pipes in different grades (304, 304L, 316, 316L) and sizes (SCH5S, SCH10S, SCH40, SCH80). Port delivery may take up to one week. Other grades, such as 304H, 316H, 316Ti, 309S, 310S, 317L, 347, 321, duplex steel and nickel alloys, may take longer to complete manufacturing, ranging from two to three weeks. I should clarify that the above waiting time is an estimate based on our production expertise. To avoid discrepancies, we recommend that you verify your feedback with us. In terms of quality control, our welded pipes undergo X-ray, Hrdro, PMI and other inspections as required. The production capacity of stainless steel welded pipes is 5000 tons per month.

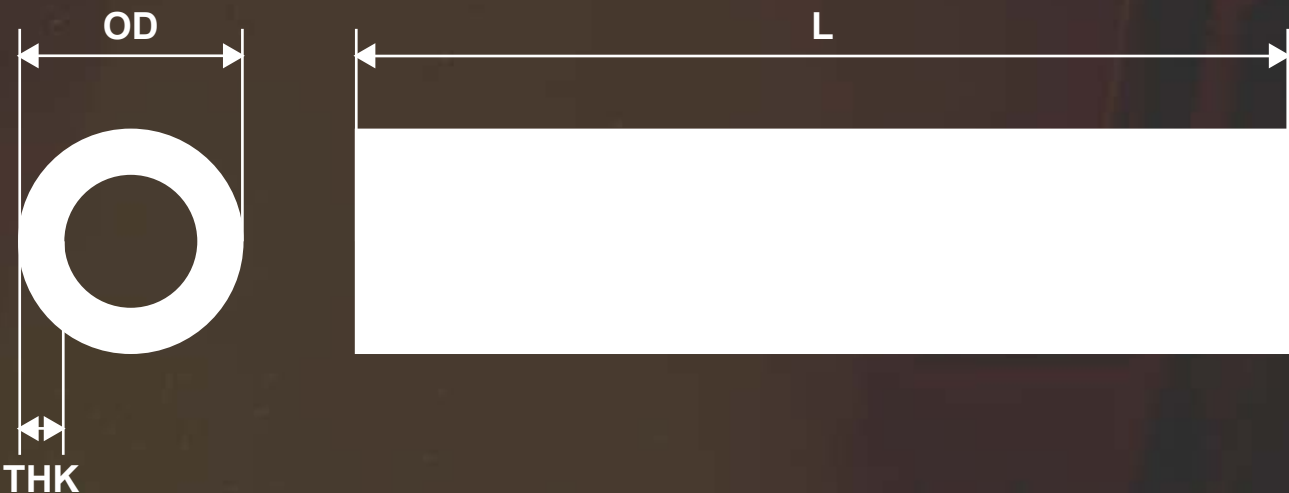
## Features

Anti-corrosion (the degree is susceptible to the alloys contained), heat-resistance, good cold and hot working properties, good toughness, good comprehensive performances and wide application.

# Manufacturing Process



# Drawing & Formula



## Formula:

$$m = (OD - THK) \times THK \text{ (mm)} \times L \text{ (m)} \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507  
OD = Outer diameter, THK = Wall Thickness, L = Length

# Tolerance

## ASTM A312

NPS Designator	Tolerance, % from Nominal	
	Over	Under
½ to 2½ incl., all t/D ratios	20	12.5
3 to 18 incl., t/D up to 5% incl.	22.5	12.5
3 to 18 incl., t/D > 5%	15	12.5
20 and larger, welded, all t/D ratios	17.5	12.5
20 and larger, seamless, t/D up to 5% incl.	22.5	12.5
20 and larger, seamless, t/D > 5%	15	12.5

## ASTM A554

OD Size, in. (mm)	Wall Thickness		OD, ±	
	in.	mm	in.	mm
Under ½ (12.7)	0.020 to 0.049	0.51 to 1.24	0.004	0.1
½ to 1 (12.7 to 25.4)	0.020 to 0.065	0.51 to 1.65	0.005	0.13
½ to 1 (12.7 to 25.4)	over 0.065 to 0.134	over 1.65 to 3.40	0.01	0.25
Over 1 to 1½ (25.4 to 38.1), incl	0.025 to 0.065	0.64 to 1.65	0.008	0.2
Over 1 to 1½ (25.4 to 38.1), incl	over 0.065 to 0.134	over 1.65 to 3.40	0.01	0.25
Over 1½ to 2 (38.1 to 50.8), incl	0.025 to 0.049	0.64 to 1.24	0.01	0.25
Over 1½ to 2 (38.1 to 50.8), incl	over 0.049 to 0.083	over 1.24 to 2.11	0.011	0.28
Over 1½ to 2 (38.1 to 50.8), incl	over 0.083 to 0.149	over 2.11 to 3.78	0.012	0.3
Over 2 to 2½ (50.8 to 63.5), incl	0.032 to 0.065	0.81 to 1.65	0.012	0.3
Over 2 to 2½ (50.8 to 63.5), incl	over 0.065 to 0.109	over 1.65 to 2.77	0.013	0.33
Over 2 to 2½ (50.8 to 63.5), incl	over 0.109 to 0.165	over 2.77 to 4.19	0.014	0.36
Over 2½ to 3½ (63.5 to 88.9), incl	0.032 to 0.165	0.81 to 4.19	0.014	0.36
Over 2½ to 3½ (63.5 to 88.9), incl	over 0.165	over 4.19	0.02	0.51
Over 3½ to 5 (88.9 to 127.0), incl	0.035 to 0.165	0.89 to 4.19	0.02	0.51
Over 3½ to 5 (88.9 to 127.0), incl	over 0.165	over 4.19	0.025	0.64
Over 5 to 7½ (127.0 to 190.5), incl	0.049 to 0.250	1.24 to 6.35	0.025	0.64
Over 5 to 7½ (127.0 to 190.5), incl	over 0.250	over 6.35	0.03	0.76
Over 7½ to 16 (190.5 to 406.4), incl	all	all	0.00125 in./in. or mm/mm of circumference	

## ASTM A269

Group	Size, Outside Diameter, in.	Permissible Variations in Outside Diameter, in. (mm)	Permissible Variations in Wall Thickness, %	Permissible Variations in Cut Length, in. (mm)		Thin Walled Tubes
				Over	Under	
1	Up to ½	±0.005(0.13)	±15	⅛(3.2)	0	...
2	½ to 1½, excl	±0.005(0.13)	±10	⅛(3.2)	0	less than 0.065 in. (1.65 mm) nominal
3	1½ to 3½, excl	±0.010(0.25)	±10	3/16(4.8)	0	less than 0.095 in. (2.41 mm) nominal
4	3½ to 5½, excl	±0.015(0.38)	±10	3/16(4.8)	0	less than 0.150 in. (3.81 mm) nominal
5	5½ to 8, excl	±0.030(0.76)	±10	3/16(4.8)	0	less than 0.150 in. (3.81 mm) nominal
6	8 to 12, excl	±0.040(1.01)	±10	3/16(4.8)	0	less than 0.200 in. (5.08 mm) nominal
7	12 to 14, excl	±0.050(1.26)	±10	3/16(4.8)	0	less than 0.220 in. (5.59 mm) nominal

# Delivery State

Delivery State Choice	Surface Condition
Hot Rolled	Silver Bright
	Polished (320#, 400#, 600#, Mirror finish)
Cold Rolled	Silver Bright
	Polished (320#, 400#, 600#, Mirror finish)
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	



# Package

Daxun packs all stainless steel welded pipes according to international standards to prevent damage or loss. By default, we will use thick woven plastic bags to pack the finished pipes in batches. However, for some special pipes that are prone to dirt, scratches, pressure or severe handling, we recommend using wooden boxes for protection. Keep in mind that wooden boxes may incur additional costs, not only for the wooden box itself, but also for higher freight rates, especially for air freight. We also provide customized packaging to meet your specific needs for a better customer experience.



Thick woven plastic bag



Wooden case

# Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea



By air



Thick-walled Pipe&Tube



## Specifications

- Outer Diameter: Φ10-Φ1219mm (Minimum - Maximum)
- Wall Thickness: SCH80S, SCH120, SCH160, XXS
- \*Customized size needs to be confirmed with us

## Standards

- American Standard: ASTM A312, ASME SA269, ASTM A269, ASME SA213, ASTM A213, ASTM A511, ASTM A789, ASTM A790, ASTM A376
- Germany Standard: DIN2462.1-1981, DIN17456-85, DIN17458-85
- European Standard: EN10216-5, EN10216-2
- Japanese Standard: JIS G3463-2006, JIS G3459-2012
- Russian Standard: GOST 9941-81
- GB Standard: GB14975, GB14976, GB95, GB13296, GB5310, GB9948, GB/T12771

## Introduction

Daxun's thick wall stainless steel tubes, also known as stainless steel hollow tubes, are often used in mechanical applications or to make hollow parts such as nozzles, reducers, couplings, etc. These applications always require corrosion resistance or high temperature strength. Thick wall stainless steel tubes can be made into a variety of designs, including round, square and rectangular, while hollow bars are made into round shapes. The most commonly used standard for thick wall stainless steel tubes or hollow bars is ASTM A511/A511M-16, which specifies the chemical composition, mechanical properties and diameter. Daxun strictly manufactures thick wall stainless steel tubes in accordance with ISO 9001 standards. Daxun also provides a brand warranty for every product it delivers.

## Features

Anti-corrosion, high-pressure resistance, heat-resistance etc.

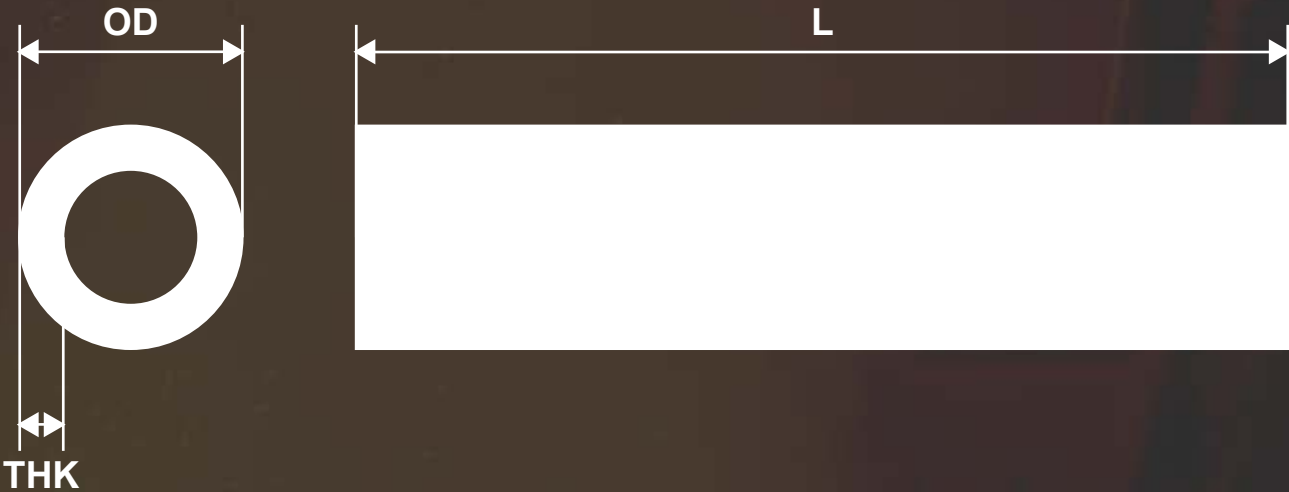
## Applications

Industrial application such as petroleum, chemical, fertilizer plants, energy, machinery application, boiler heat exchange and others.

# Manufacturing Process



# Drawing & Formula



## Formula:

$$m = (OD - THK) \times THK \text{ (mm)} \times L \text{ (m)} \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507  
OD = Outer diameter, THK = Wall Thickness, L = Length



Size Range

Outer Diameter	Wall Thickness	Outer Diameter	Wall Thickness	Outer Diameter	Wall Thickness	Outer Diameter	Wall Thickness
1/8	1	1	5	15/8	6	7/2	12
1/8	1.5	1	6	15/8	8	4	3
1/8	2	9/8	2	2	2	4	3.5
1/4	1	9/8	2.5	2	2.5	4	4
1/4	1.5	9/8	3	2	3	4	5
1/4	2	9/8	3.5	2	3.5	4	6
3/8	1	9/8	4	2	4	4	8
3/8	1.5	9/8	5	2	5	4	10
3/8	2	9/8	6	2	6	4	12
3/8	2.5	5/4	2	2	8	5	4
3/8	3	5/4	2.5	2	10	5	5
7/16	2	5/4	3	2	12	5	6
7/16	2.5	5/4	3.5	9/4	2	5	8
7/16	3	5/4	4	9/4	2.5	5	10
7/16	3.5	5/4	5	9/4	3	5	12
7/16	4	5/4	6	9/4	3.5	6	4
1/2	2	11/8	2	9/4	4	6	5
1/2	2.5	11/8	2.5	9/4	5	6	6
1/2	3	11/8	3	9/4	6	6	8
1/2	3.5	11/8	3.5	9/4	8	6	10
1/2	4	11/8	4	9/4	10	6	12
5/8	2	11/8	5	9/4	12	8	4
5/8	2.5	11/8	6	5/2	3	8	5
5/8	3	3/2	2	5/2	3.5	8	6
5/8	3.5	3/2	2.5	5/2	4	8	8
5/8	4	3/2	3	5/2	5	8	10
3/4	2	3/2	3.5	5/2	6	8	12
3/4	2.5	3/2	4	5/2	8	10	6
3/4	3	3/2	5	5/2	10	10	8
3/4	3.5	3/2	6	5/2	12	10	10
3/4	4	3/2	8	3	3	10	12
3/4	5	7/4	2	3	3.5	12	10

Delivery State

3/4	6	7/4	2.5	3	4	12	12
7/8	2	7/4	3	3	5	14	10
7/8	2.5	7/4	3.5	3	6	14	12
7/8	3	7/4	4	3	8	16	10
7/8	3.5	7/4	5	3	10	16	12
7/8	4	7/4	6	3	12	18	10
7/8	5	7/4	8	7/2	3	18	12
7/8	6	15/8	2	7/2	3.5	20	10
1	2	15/8	2.5	7/2	4	20	12
1	2.5	15/8	3	7/2	5	24	10
1	3	15/8	3.5	7/2	6	24	12
1	3.5	15/8	4	7/2	8		
1	4	15/8	5	7/2	10		

Delivery State Choice	Surface Condition
HFD: Hot finished heat treated, descaled	Metallically Clean
CFD: Cold finished heat treated, descaled	Metallically Clean
CFA: Cold finished bright annealed	Metallically Bright
CFG: Cold finished heat treated, ground	Metallically bright-ground, the type and degree of roughness shall be agreed at the time of enquiry and order b
CFP: Cold finished heat treated, polished	Metallically bright-ground, the type and degree of roughness shall be agreed at the time of enquiry and order b
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	

# Package

Daxun packages all of its stainless steel thick-wall pipes in accordance with international standards to prevent damage or loss. By default, we will use thick woven plastic bags to package the finished pipes in batches. However, for some special pipes that are prone to dirt, scratches, pressure or severe handling, we recommend using wooden boxes for protection. Keep in mind that wooden boxes may incur additional costs, not only for the box itself, but also for higher freight rates, especially for air freight. We also provide customized packaging to meet your specific needs for a better customer experience



Thick woven plastic bag



Wooden case

# Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea



By air



Capillary Tube





## Specifications

- Outer Diameter:  $\Phi 0.4$ - $\Phi 16.0$ mm (Minimum - Maximum)
- Wall Thickness: 0.1-2.0mm (Minimum – Maximum)
- Length: 18000mm (Maximum)
- \*Customized size needs to be confirmed with us

## Standards

- American Standard: ASTM A312, ASTM A358, ASTM A249, ASTM A269, ASTM A554, ASTM A790
- European Standard: DIN 17457
- Japanese Standard: JIS G3459
- GB Standard: GB/T12770-2002, GB/T12771-2008

## Features

Fine softness, anti-corrosion, heat resistance, durability, good tensile properties, waterproofing, and good electromagnetic shielding properties.

## Introduction

Daxun adheres to ISO 9001:2015 standards and manufactures stainless steel capillaries with an accuracy of  $\pm 0.02$ mm. Our stainless steel capillaries are divided into four categories: AP tubes, MP tubes, BA tubes and (clean room) EP tubes. BA tubes and EP tubes are the most popular and are well known in various industrial applications at home and abroad for their high precision and stronger corrosion resistance. For your reference, we can manufacture SUS 316L capillaries with 12 nickel, which have higher corrosion resistance and are very suitable for special applications such as high-hazard gases. In most cases, TP 316L with 10 nickel is sufficient for general corrosion applications. We provide ASTM A269, A270, A312, A554 and A249 to meet your different needs. Civmats provides stainless steel capillaries in various sizes and grades. The main grades include 316(L), 304(L), 321(H), 309S and 310S. If you require a non-standard size or a grade not specified in our datasheet, we can customize it for you after confirmation. For typical sizes of common grades, we have them in stock for quick delivery. We can also provide a small number of free samples upon request so that you can check the quality. If you are interested in our stainless steel capillaries, please call or email us and our sales team will contact you immediately.

## Applications

Automation instrument line, wire protection tube, inner support of high voltage cable, chemical, petroleum, medical equipment, decoration, kitchen ware, food machinery, pens, clock, fishing rod, etc.

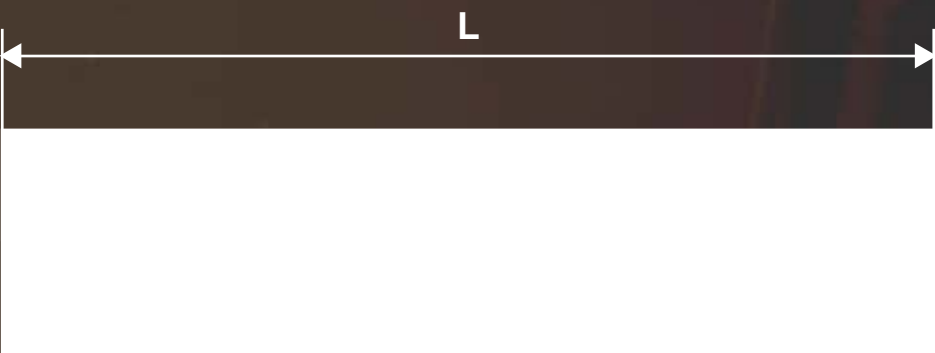




# Manufacturing Process



# Drawing & Formula



## Formula:

$$m = (OD - THK) \times THK \text{ (mm)} \times L \text{ (m)} \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507  
OD = Outer diameter, THK = Wall Thickness, L = Length

# Size & Tolerance

## Size Range

Size	Size	Size	Size
0.4*0.11	1.6*0.15	2.5*0.75	4.5*0.5
0.5*0.15	1.6*0.2	2.5*0.8	4.5*1.0
0.6*0.15	1.6*0.25	2.55*0.13	4.7*1.0
0.63*0.15	1.6*0.3	2.55*0.8	5.0*0.2
0.7*0.15	1.6*0.4	2.6*0.2	5.0*0.25
0.8*0.125	1.7*0.15	2.8*0.2	5.0*0.3
0.8*0.15	1.7*0.25	3.0*0.15	5.0*0.35
0.9*0.15	1.8*0.11	3.0*0.2	5.0*0.5
1.0*0.1	1.8*0.125	3.0*0.25	5.0*1.0
1.0*0.125	1.8*0.15	3.0*0.3	5.0*1.5
1.0*0.135	1.8*0.2	3.0*0.5	5.5*0.2
1.0*0.15	2.0*0.125	3.2*0.2	6.0*1.5
1.0*0.16	2.0*0.15	3.2*0.5	6.0*0.8
1.1*0.115	2.0*0.2	3.4*0.2	6.0*2.0
1.1*0.12	2.0*0.25	3.5*0.2	6.35*0.3
1.1*0.125	2.0*0.3	3.5*0.25	6.35*0.35
1.1*0.135	2.0*0.4	3.5*0.5	6.35*0.5
1.1*0.14	2.0*0.5	3.5*1.0	6.35*0.7
1.1*0.15	2.0*0.7	3.5*1.2	6.35*0.8
1.1*0.2	2.1*0.5	3.7*0.2	6.35*1.25
1.2*0.1	2.1*0.55	3.7*0.25	6.35*1.65
1.2*0.125	2.1*0.65	3.8*0.2	6.35*1.8
1.2*0.135	2.1*0.7	3.8*0.25	6.35*0.89
1.2*0.15	2.2*0.2	4.0*0.2	6.35*1.24
1.2*0.2	2.2*0.3	4.0*0.25	6.35*1.65
1.3*0.1	2.2*0.6	4.0*0.35	6.5*0.3
1.3*0.11	2.2*0.8	4.0*0.4	6.5*0.4
1.3*0.12	2.3*0.2	4.0*0.5	6.5*0.5
1.3*0.125	2.3*0.25	4.0*0.7	6.5*0.6
1.3*0.15	2.5*0.18	4.0*1.0	7.0*0.2
1.3*0.3	2.5*0.2	4.2*0.25	7.0*0.3
1.4*0.15	2.5*0.25	4.4*0.25	7.0*0.5
1.4*0.2	2.5*0.3	4.4*0.4	7.0*1.0
1.4*0.25	2.5*0.4	4.5*0.2	8.0*0.2
1.45*0.1	2.5*0.5	4.5*0.25	8.0*0.5

1.5*0.125	2.5*0.55	4.5*0.3	9.52*0.89
1.5*0.15	2.5*0.6	5.5*0.25	9.52*1.24
1.5*0.2	2.5*0.7	5.5*0.3	9.52*1.65
1.5*0.25	3.0*0.6	5.5*0.5	9.52*2.03
1.5*0.4	3.0*0.7	5.5*1.0	12.7*1.24
1.55*0.325	3.0*0.9	6.0*0.15	12.7*1.65
1.6*0.1	3.0*1.0	6.0*0.2	12.7*2.03
1.8*0.25	3.0*1.2	6.0*0.25	15.88*1.24
1.8*0.4	3.1*0.55	6.0*0.3	15.88*1.65
1.9*0.15	3.18*0.71	6.0*0.5	
2.0*0.1	3.18*0.89	6.0*1.0	

## Tolerance

Outside Diameter						Wall Thickness										
Tube		Pipe		MP/ BA/EP	AP	Tube(mm)				Pipe Schedule 5S			Pipe Schedule 10S			
Inch	Metric	A	Inch			T	MP/EP	BA	AP	T	MP/ BA/ EP	BA	T	MP/ BA/EP	BA	
1/4				+0.1 -0.00	±0.30	1.00	+0.05 -0.00	+0.05 -0.00	±0.30							
3/8						1.00										
1/2						1.24	+0.01 -0.15	±0.1								
3/4						1.65										
1				±0.1		1.65										
	6			+0.1 -0.00		1.00	+0.05 -0.00	+0.05 -0.00								
	10					1.00										
	12					1.00	+0.01 -0.15	±0.1								
	19					1.50										
	23			±0.1		1.50										
		8A	1/4	±0.08	±10%					1.2	±0.12	±0.20	1.65	±0.15	±0.20	
		10A	3/8	±0.10						1.2			1.65	1.65	±0.15	±0.28
		15A	1/2							1.65	±0.15		2.10	±0.21		
		20A	3/4						1.65	2.10						
		25A	1						1.65	2.80						
		32A	1-1/4	±0.15					1.65	2.80			±0.28			
		40A	1-1/2	±0.20					1.65	2.80						
		50A	2	±0.40					1.65	±0.20	±10%	3.00	±0.30			
		65A	2-1/2									2.1		3.00		
		80A	3	±0.80					2.1	±0.28		3.00		±0.34		
		100A	4						2.1			3.40				
		125A	5			±1.00						2.1	3.40			
		150A	6			±1.50						2.1	4.00			
		200A	8	±2.00						2.1			±0.40			

# Delivery State

Delivery State Choice	Surface Condition
AP: Annealed and Pickled	Pickled
MP: Mechanically Polished	Polished
BA: Bright Annealed	Bright
EP: Electro-Polished	Polished
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	

## Inside Diameter Surface Finish Level

Inside Surface Level	O.D.size	Ra(μinch)	Ry(μm)
AP	ALL	≤100	≤25
MP	139.8≤OD≤355.6	≤20	≤4.0
BA	6.35≤OD≤48.6	≤15	≤3.0
	48.6≤OD≤165.2	≤20	≤4.0
EP	6.35≤OD≤48.6	≤10	≤0.5
	48.6≤OD≤165.2	≤10	≤0.7

## Particle Contribution Test

Inside Surface Level	Standard	
	Max Particle Size	Allowabel Particle No
AP	0.3μm	5/cf
MP	0.1μm	5/cf
BA	0.1μm	5/cf
EP	0.1μm	1/cf

# Package

Daxun packs all stainless steel capillary tubes according to international standards to prevent damage or loss. By default, we will use thick woven plastic bags to pack the finished SS tubes in batches. However, for some specialty tubes that are easily stained with dirt, scratches, pressure or rough handling, we recommend using wooden packaging boxes for protection. Keep in mind that wooden boxes may incur additional costs, not only for the box itself, but also for higher freight rates, especially for air freight. We also provide customized packaging to meet your specific needs for a better customer experience.



Thick woven plastic bag



Wooden case

# Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea

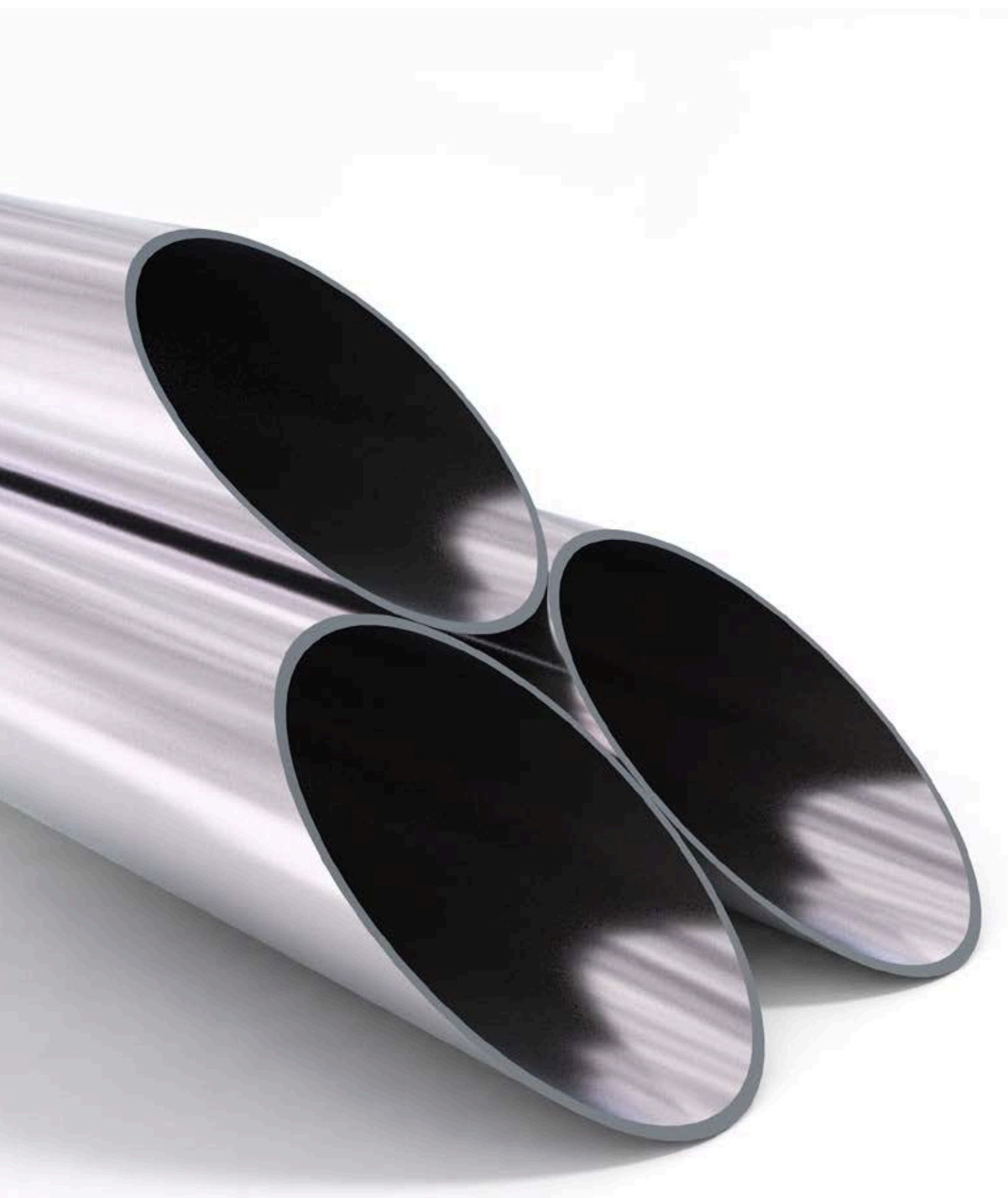


By air



# ***DAXUN***





## Specifications

- 1) S.S. Welded Sanitary Pipe:  
Outer Diameter:  $\Phi 8$ - $\Phi 850$ mm (Minimum - Maximum)  
Wall Thickness: 1-6mm (Minimum – Maximum)
- 2) S.S. Seamless Sanitary Pipe:  
Outer Diameter:  $\Phi 6$ - $\Phi 219$ mm (Minimum - Maximum)  
Wall Thickness: 1-6mm (Minimum – Maximum)
- \*Customized size needs to be confirmed with us

## Standards

- American Standard: ASTM A312, ASME SA269, ASTM A269, ASME SA213, ASTM A213, ASTM A511, ASTM A789, ASTM A790, ASTM A376, ASME SA335, SB161, SB163, SB338, SB667/668
- Germany Standard: DIN2462.1-1981, DIN17456-85, DIN17458-85
- European Standard: EN10216-5, EN10216-2
- Japanese Standard: JIS G3463-2006, JIS G3459-2012
- Russian Standard: GOST 9941-81
- GB Standard: GB14975, GB14976, GB95, GB13296, GB5310, GB9948, GB/T12771

## Introduction

Daxun is a well-known Chinese stainless steel bar supplier that produces and manufactures a wide range of sanitary stainless steel tubes. Our sanitary SS tubes are available in a variety of sizes and grades, all customizable. Choose Daxun to find the most sanitary stainless steel tubes. The sanitary tubes produced by Daxun are widely used in the food and beverage, pharmaceutical, chemical and cosmetic industries. The sanitary tubes can be made into welded tubes or seamless tubes according to your specifications. In addition, both options include thin-walled sanitary tubes. The sizes of welded sanitary tubes range from  $\Phi 8 \times 1$  to  $\Phi 850 \times 6$ , while the sizes of seamless tubes range from  $\Phi 6 \times 1$  to  $\Phi 219 \times 6$ . Seamless sanitary tubes can achieve  $Ra \leq 0.2-0.4 \mu m$ .

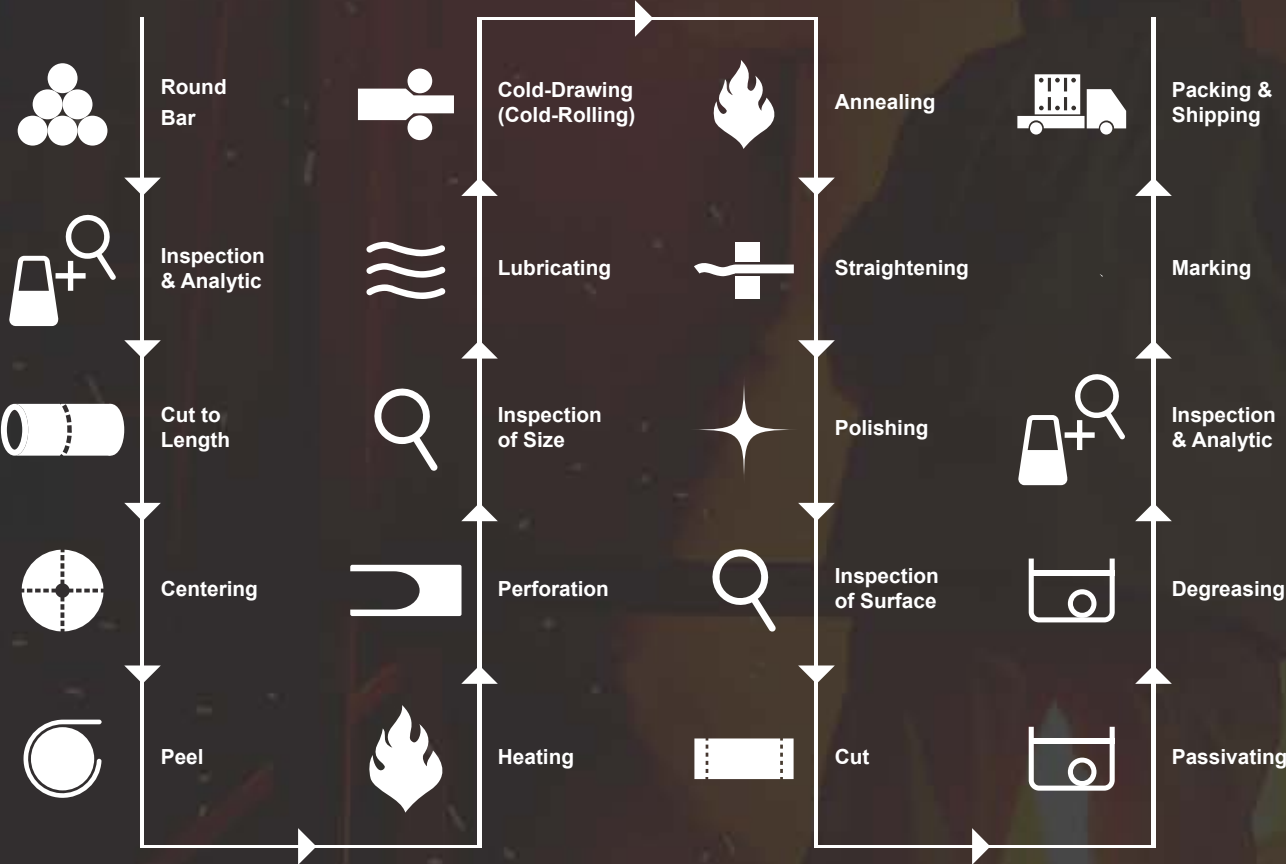
## Features

Beautiful and smooth surface (400#-800#), suitable for food grade tubes and sanitary tubes.

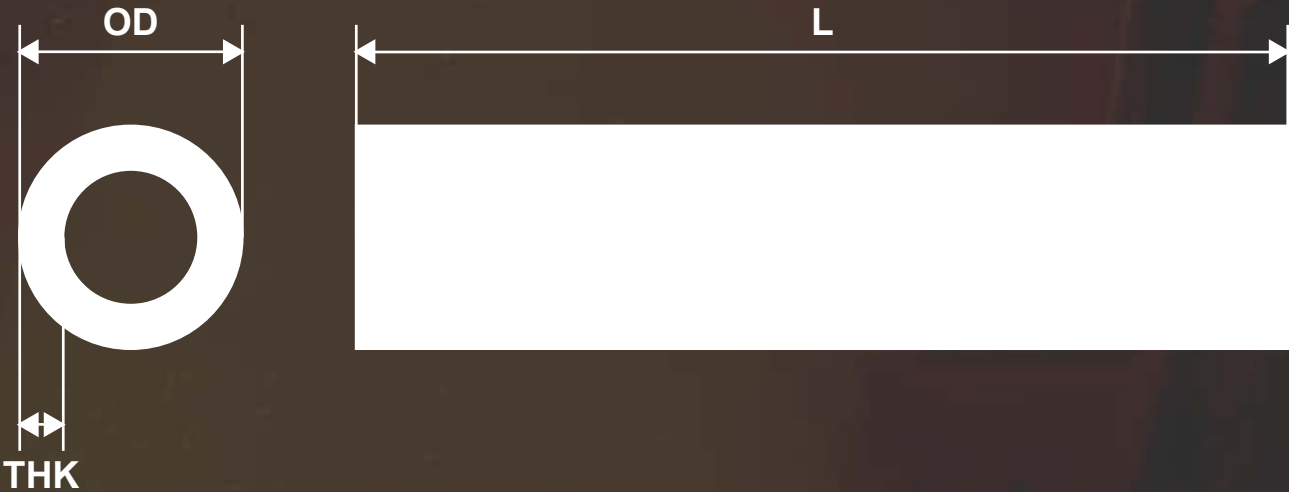
## Applications

Pharmaceutical equipment, food & beverage industry, portable water, bioengineering, chemical engineering, air purification, aviation, and nuclear industry.

# Manufacturing Process



# Drawing & Formula



## Formula:

$$m = (OD - THK) \times THK \text{ (mm)} \times L \text{ (m)} \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507

OD = Outer diameter, THK = Wall Thickness, L = Length



Tolerance

Size, Outside Diameter, in. [mm]	Permissible Variations in Outside Diameter, in. [mm]		Permissible Variations in Cut Length, in. [mm]	
	Over	Under	Over	Under
1.000 [25] and under	0.005 [0.13]	0.005 [0.13]	1/8 [3]	0
Over 1 [25] to 2 [50]	w0.008 [0.20]	0.008 [0.20]	1/8 [3]	0
Over 2 [50] to 3 [75]	0.010 [0.25]	0.010 [0.25]	1/8 [3]	0
Over 3 [75] to 4 [100]	0.015 [0.38]	0.015 [0.38]	1/8 [3]	0
Over 4 [100] to 5½ [140], excl	0.015 [0.38]	0.015 [0.38]	3/16 [5]	0
5½ [140] to 8 [200], excl	0.030 [0.75]	0.030 [0.75]	3/16 [5]	0
8 [200] to 12 [300]	0.050 [1.25]	0.050 [1.25]	3/16 [5]	0

Delivery State

Delivery State Choice	Surface Condition
Finish No. 80	A ground finish produced by polishing a tube with an abrasive media impregnated with No. 80 grit.
Finish No. 120	A ground finish produced by polishing a tube with an abrasive media impregnated with No. 120 grit.
Finish No. 180	A ground finish produced by polishing a tube with an abrasive media impregnated with No. 180 grit.
Finish No. 240	A ground finish produced by polishing a tube with an abrasive media impregnated with No. 240 grit.
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	

# Package

Daxun packs all of its stainless steel sanitary pipes and tubes in accordance with international standards to prevent damage or loss. By default, each stainless steel sanitary pipe is individually packed in a waterproof plastic bag with pipe caps attached at both ends, then bundled together and further secured with a woven plastic bag. We can also provide wooden box packaging or any customized packaging according to your specifications. Please keep in mind that wooden boxes may incur additional costs, not only for the box itself, but also for higher freight rates, especially for air freight.



Thick woven plastic bag



Wooden case

# Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea



By air



Square Pipe&Tube



## Introduction

Stainless steel square tubes can be in welded or seamless form, depending on your requirements.

Welded square tubes are made from stainless steel strips or coils that are cold-bent, processed, and die-formed. Then, they are exposed to high-frequency welding to produce a steel section with a square cross-section. It has good overall mechanical properties, including hot and cold workability, corrosion resistance, and low-temperature plasticity. Seamless square tubes are cold-drawn and extruded into a square shape, which is very different from welded square tubes. Stainless steel seamless square tubes are widely used in fluid transportation.

## Specifications

- Side Length: 4×4-300×300mm (Minimum - Maximum)
- Wall Thickness: 0.25-8.0mm (Minimum – Maximum)
- Length: 18000mm (Maximum)
- \*Customized size needs to be confirmed with us

## Standards

- American Standard: ASTM A312, ASTM A358, ASTM A249, ASTM A269, ASTM A554, ASTM A790
- European Standard: DIN 17457
- Japanese Standard: JIS G3459
- GB Standard: GB/T12770-2002, GB/T12771-2008

## Features

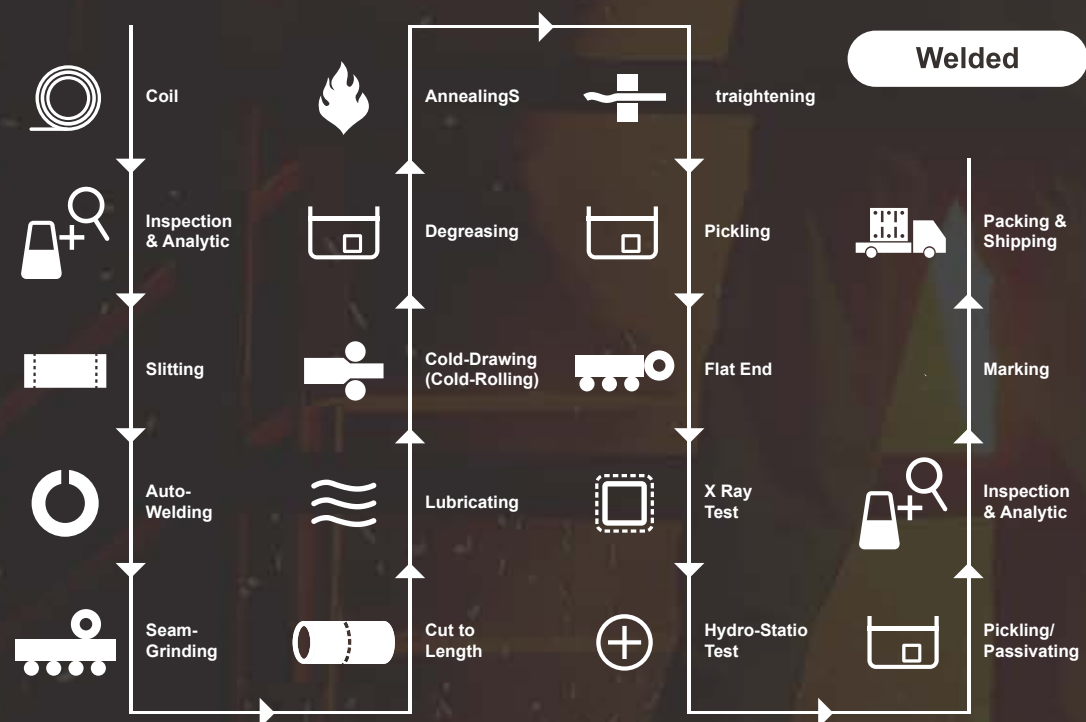
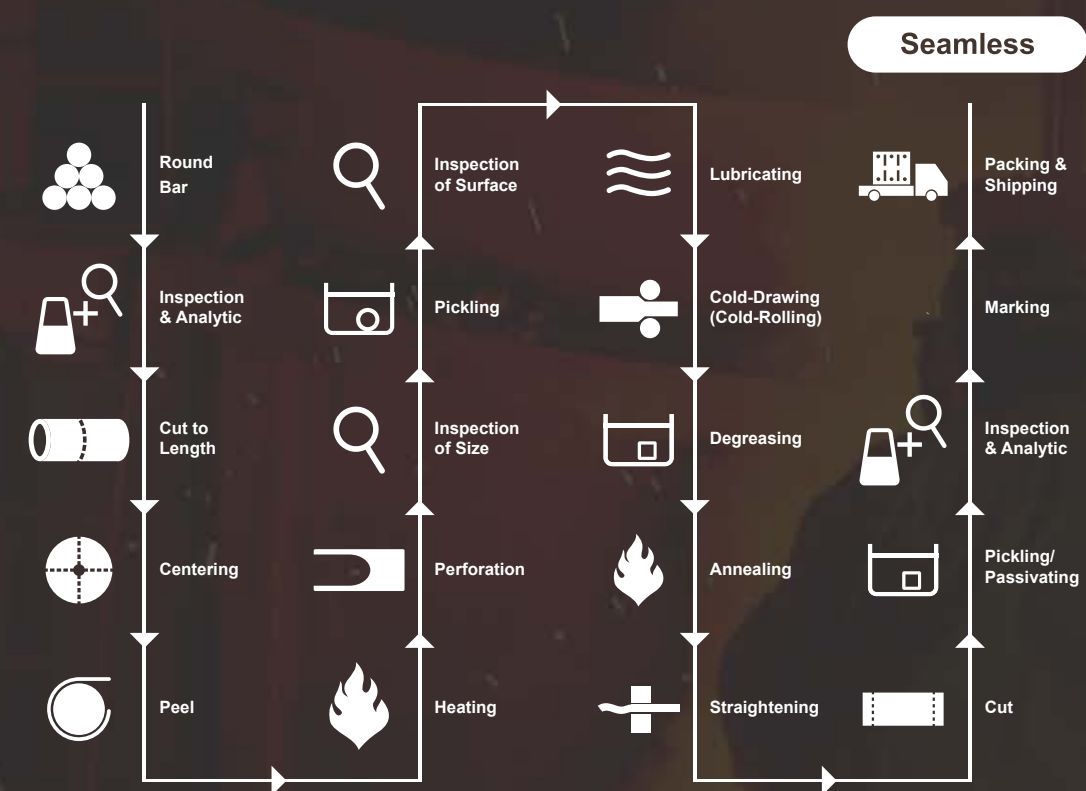
Anti-corrosion (the degree is susceptible to the alloys contained), heat-resistance, good cold and hot working properties, good toughness, good comprehensive performances and wide application.

## Applications

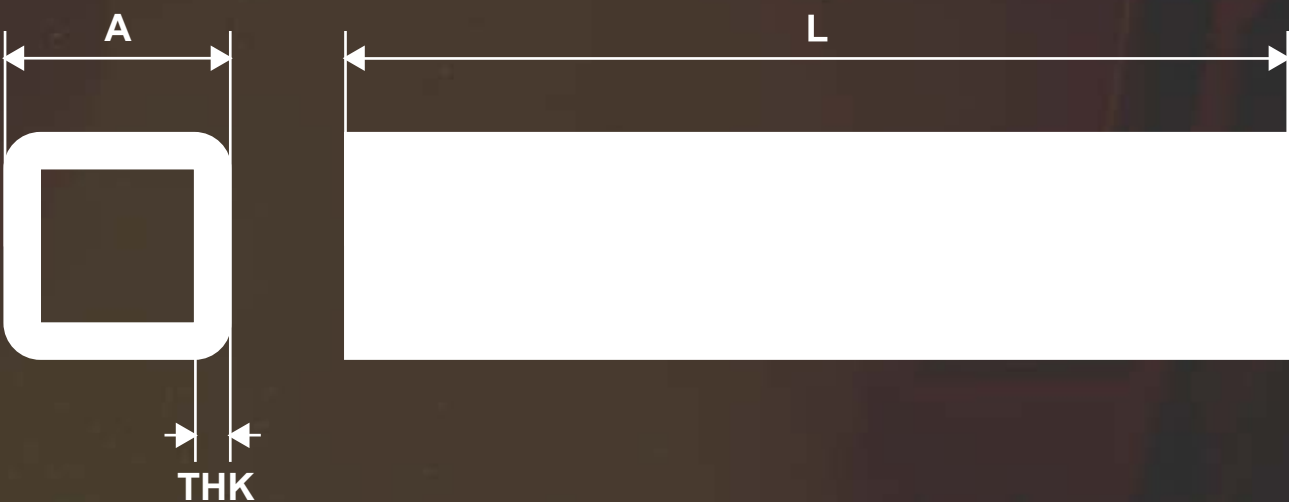
Construction, machinery manufacturing, steel construction projects, shipyard, solar stands, power plant, agriculture, mechanical machinery, airports and so on.



Manufacturing Process



Drawing & Formula



Formula:

$$m = (A \times 4/3.14 - THK) \times THK \times L (m) \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507  
A = Side Width, THK = Wall Thickness, L = Length

Size Range

Side Width	Wall Thickness	Side Width	Wall Thickness	Side Width	Wall Thickness
12.7 x 12.7	0.4	22 x 22	0.6	38 x 38	0.9
12.7 x 12.7	0.5	22 x 22	0.7	38 x 38	1.0
12.7 x 12.7	0.6	22 x 22	0.8	38 x 38	1.5
12.7 x 12.7	0.7	22 x 22	0.9	38 x 38	2.0
12.7 x 12.7	0.8	22 x 22	1.0	40 x 40	0.6
16 x 16	0.4	22 x 22	1.5	40 x 40	0.7
16 x 16	0.5	25 x 25	0.5	40 x 40	0.8
16 x 16	0.6	25 x 25	0.6	40 x 40	0.9
16 x 16	0.7	25 x 25	0.7	40 x 40	1.0
16 x 16	0.8	25 x 25	0.8	40 x 40	1.5
16 x 16	0.9	25 x 25	0.9	40 x 40	2.0
16 x 16	1.0	25 x 25	1.0	50 x 50	0.8
19 x 19	0.4	25 x 25	1.5	50 x 50	0.9
19 x 19	0.5	30 x 30	0.6	50 x 50	1.0
19 x 19	0.6	30 x 30	0.7	50 x 50	1.5
19 x 19	0.7	30 x 30	0.8	50 x 50	2.0

Delivery State

19 x 19	0.8	30 x 30	0.9	60 x 60	1.0
19 x 19	0.9	30 x 30	1.0	60 x 60	1.5
19 x 19	1.0	30 x 30	1.5	60 x 60	2.0
19 x 19	1.5	38 x 38	0.6	80 x 80	1.0
22 x 22	0.4	38 x 38	0.7	80 x 80	1.5
22 x 22	0.5	38 x 38	0.8	80 x 80	2.0

Delivery State Choice	Surface Condition
Hot Rolled	Silver Bright
	Polished (320#, 400#, 600#, Mirror finish)
Cold Rolled	Silver Bright
	Polished (320#, 400#, 600#, Mirror finish)
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	

# Package

Daxun packs all of its stainless steel square tubes and pipes in accordance with international standards to prevent damage or loss. By default, we will use thick woven plastic bags to pack the finished pipes in batches. However, for some special pipes that are prone to dirt, scratches, pressure or severe handling, we recommend using wooden boxes for protection. Keep in mind that wooden boxes may incur additional costs, not only for the box itself, but also for higher freight rates, especially for air freight. We also provide customized packaging to meet your specific needs for a better customer experience.



Thick woven plastic bag



Wooden case

# Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea

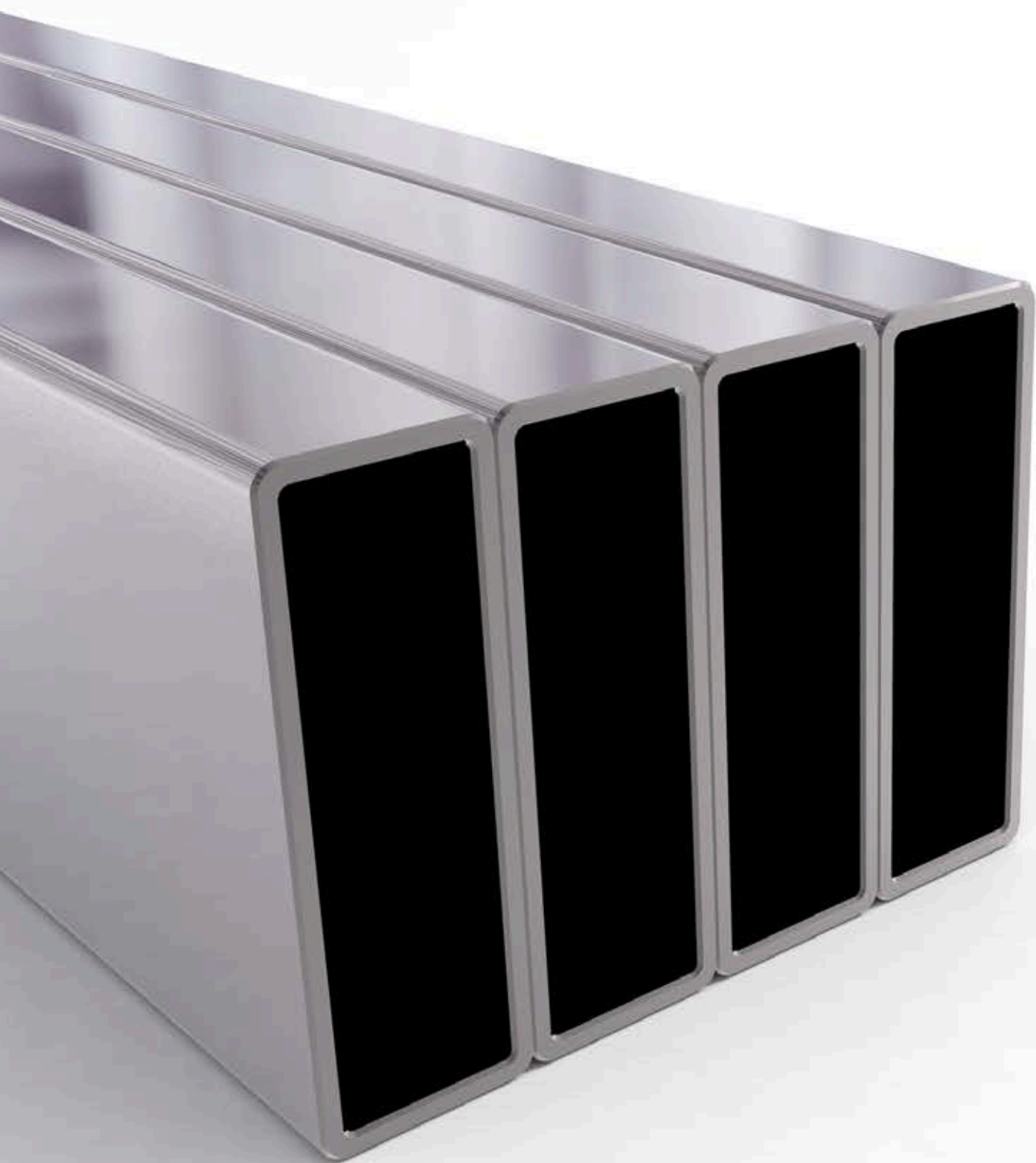


By air



Rectangle Pipe&Tube





## Specifications

- Side Length: 4×6-200×400 (Minimum - Maximum)
- Wall Thickness: 0.25-8.0mm (Minimum – Maximum)
- Length: 18000mm (Maximum)
- \*Customized size needs to be confirmed with us

## Features

Anti-corrosion (the degree is susceptible to the alloys contained), heat-resistance, good cold and hot working properties, good toughness, good comprehensive performances and wide application

## Standards

- American Standard: ASTM A312, ASTM A358, ASTM A249, ASTM A269, ASTM A554, ASTM A790
- European Standard: DIN 17457
- Japanese Standard: JIS G3459
- GB Standard: GB/T12770-2002, GB/T12771-2008

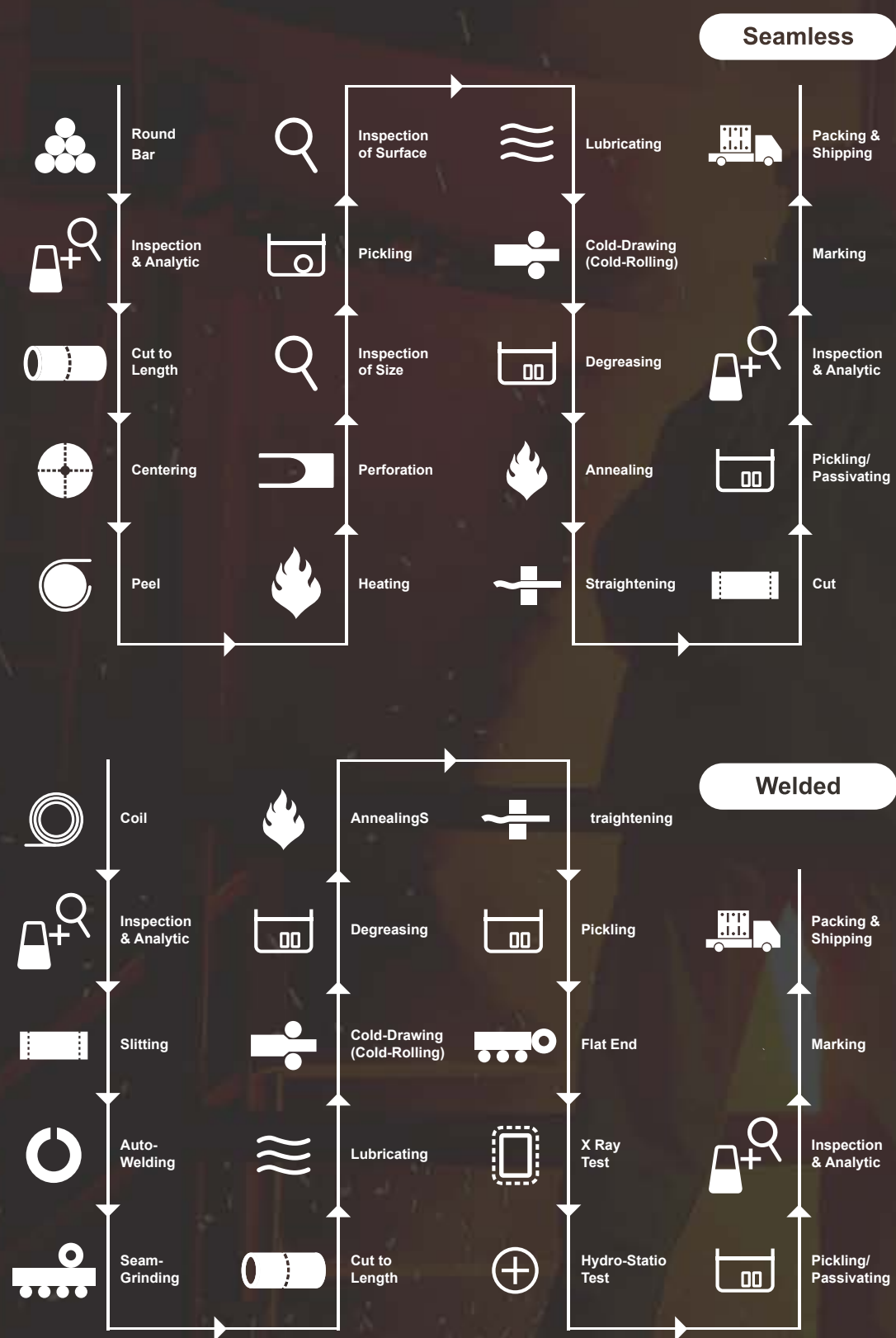
## Introduction

Stainless steel rectangle pipe and tube are hollow stainless steel long products that can be classified as seamless or welded depending on the technique. Seamless stainless steel rectangle pipe is classified into four types: hot rolled SS pipe, cold rolled SS pipe, cold drawn SS pipe, and extruding SS pipe. Cold rolled and cold drawn pipes are processed alongside hot rolled pipes. Welded stainless steel rectangle pipe is divided into two categories: straight-seam SS welded pipe and spiral SS welded pipe. Civmats manufactures both seamless and welded stainless steel rectangle pipes in a variety of sizes and grades that meet ASTM, JIS, EN, DIN, and GOST standards. The primary grades of stainless steel rectangle pipe we manufacture are 304(L), 316(L), and 321. Customisation, whether in terms of grade or dimension, is permitted as long as the amount matches our MOQ (1 Tonne per size). Our stainless steel rectangle pipe is widely utilised for carrying fluids such as oil and gas, water and steam. Because of its reduced weight under the same bending and torsional strength, stainless steel rectangle tubes are also frequently employed in the fabrication of machine parts and engineering structures.

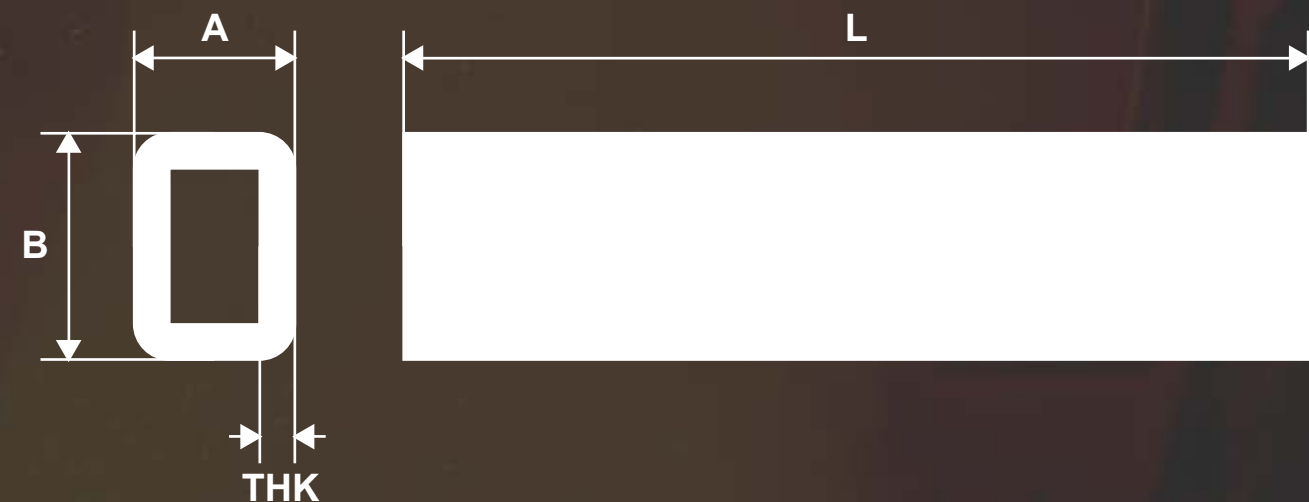
## Applications

Petroleum, natural gas, fluid, steam, machinery manufacturing, steel construction project and others.

Manufacturing Process



Drawing & Formula



Formula:

$$m = [(A + B) \times 2 / 3.14 - THK] \times THK \text{ (mm)} \times L \text{ (m)} \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507

A = Side Width, B = Edge Length, THK = Wall Thickness, L = Length

# Size Range

Size	Size	Size	Size	Size	Size
4x6	12.7×25.4	20×150	40×50	60×100	80×125
5x8	13×25	20×200	40×60	60×120	80×140
5*10	15×25	25×40	40×70	60×125	80×150
5x12	15×30	25×50	40×80	60×140	80×160
5*15	15×35	25×60	40×90	60×150	80×200
5*20	15×40	25×70	40×100	60×200	90×100
6*12	15×50	25×80	40×120	70×80	90×110
7*38	15×60	25×90	40×125	70×90	100×140
8x5	15×65	25×100	40×150	70×100	100×150
8x6	15×70	25×120	40×200	70×110	100×200
8x12	15×80	25×125	45×60	70×120	110×130
8x15	15×90	25×150	45×75	70×125	110×150
9*17	15×100	25×200	45×95	70×130	120×140
10×20	16×32	30×40	50×60	70×140	120×180
10×25	20×30	30×50	50×75	70×150	120×200
10×30	20×40	30×60	50.8×76.2	70×180	125×150
10×40	20×50	30×70	50×100	70×200	125×175

# Delivery State

10×50	20×60	30×80	50×120	75×100	125×200
10×60	20×70	30×90	50×125	75×125	130×170
10×70	20×80	30×100	50×150	75×150	150×200
10×80	20×90	30×120	50×200	75×175	
10×90	20×100	30×125	60×70	80×90	
10×100	20×120	30×150	60×80	80×100	
11×35	20×125	30×200	60×90	80×120	

Delivery State Choice	Surface Condition
Hot Rolled	Silver Bright
	Polished (320#, 400#, 600#, Mirror finish)
Cold Rolled	Silver Bright
	Polished (320#, 400#, 600#, Mirror finish)
Note: 1. If you require different deliver state than the above listed, kindly confirm with us. 2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.	



# Package

Daxun packs all stainless steel rectangular tubes and pipes according to international standards to prevent damage or loss. By default, we will use thick woven plastic bags to pack the finished tubes in batches. However, for some special tubes that are prone to dirt, scratches, pressure or severe handling, we recommend using wooden boxes for protection. Keep in mind that wooden boxes may incur additional costs, not only for the box itself, but also for higher freight rates, especially for air freight. We also provide customized packaging to meet your specific needs for a better customer experience.



Thick woven plastic bag



Wooden case

# Logistics

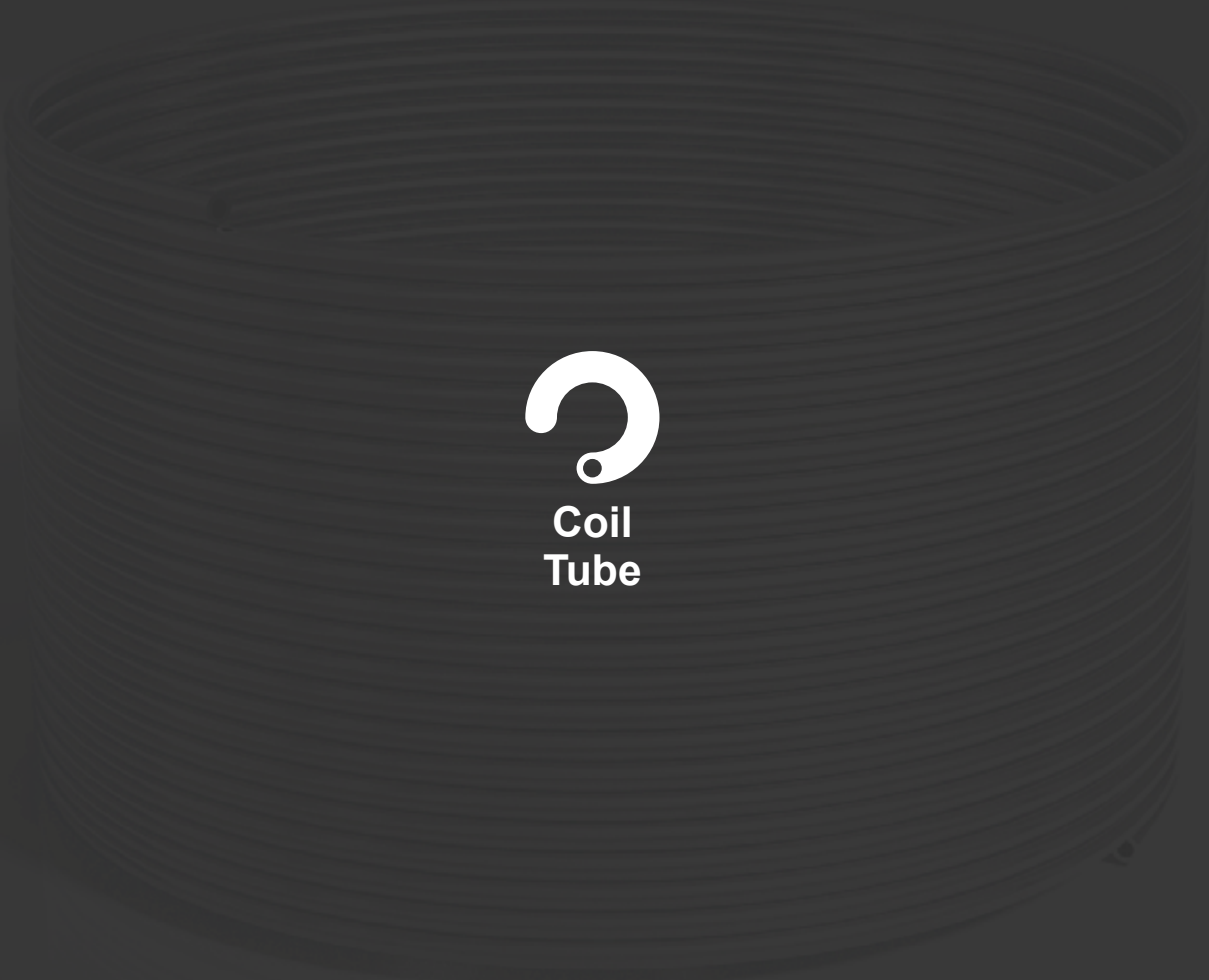
By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



By sea



By air



Coil Tube





## Specifications

- Dimension:  
Outside diameter range from 0.4 to 16mm  
Wall thickness range from 0.1 to 2.11mm  
Length: 150m, 1500m, 1800m, or customized
- Classification of Stainless Steel Tube Coil/Coil Tubing:
  1. Flange heating tubes
  2. O type
  3. I type
  4. W type
  5. U type
- \*Customized size needs to be confirmed with us

## Features

Stainless steel coil tube boasts many good features as below: 1) resistance to high-temperature steam, impingement corrosion and ammonia corrosion; 2) anti-scaling, hardness to get stained, corrosion resistance to oxidation; 3) long service life, reduced maintenance time, cost saving; 4) excellent tabulation, readiness for tube change, safety and reliability; 5) uniform tube wall, 30%-50% less than the wall thickness of copper tube, superior overall thermal conductivity coefficient; 6) ideal heat exchange product for upgrading old sets and manufacturing new equipment.

## Standards

ASTM A269, A249, JIS G4305, GB/T 12770-2002GB/T12771-2002, EN10216-5

## Introduction

Stainless steel coil tubes have a diameter ranging from 0.5mm to 20mm and a wall thickness ranging from 0.1mm to 2.0mm; for example, a pancake coil tube falls into this category. Stainless steel coil tubes are widely used in the petrochemical industry, machinery, electronics, electric power, textile, rubber, food, medical devices, aeronautics, aerospace, communication, petroleum, and other fields. The procedure of making brilliant stainless steel coil tube entails welding stainless steel strips and lowering wall thickness. As the wall thickness decreases, this process evens out and smoothes it. Meanwhile, the drawing procedure for lowering pipe wall thickness results in a seamless appearance. This technique involves brilliant annealing, which removes the oxide layer from the interior and external tube walls. These tubes, which are bright and lovely on both the inside and exterior, are just what medical devices require. The SS coiled tubes are offered in lengths of 150 metres per coil for seamless tubes and 1500 metres per coil for welded tubes. Please keep in mind that the length can be customised to meet your specific needs.

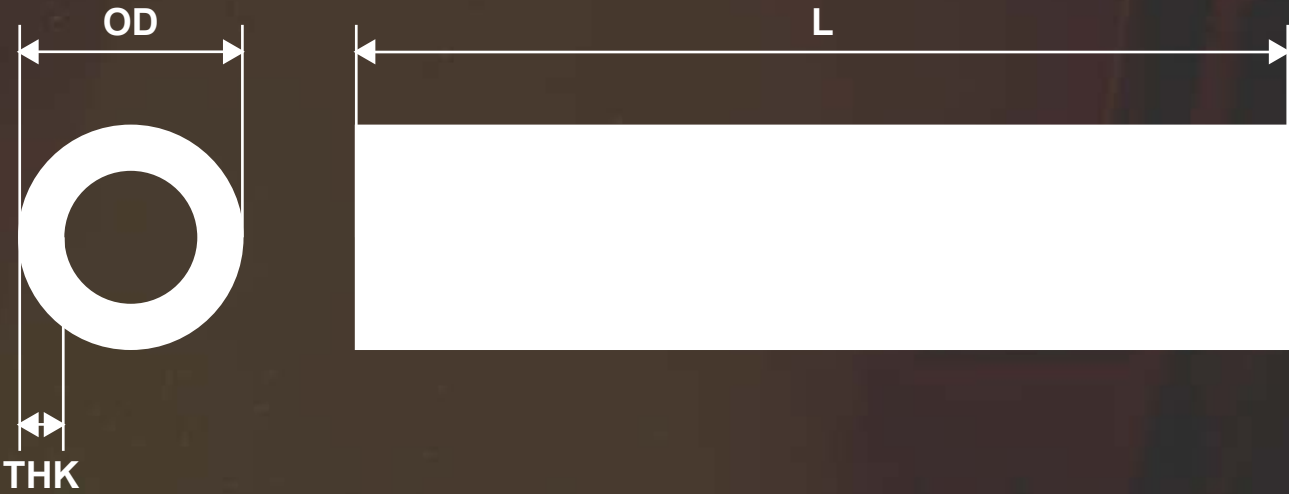
## Applications

- Industrial stainless-steel coil tube: heat exchanger, boiler, petroleum, control line, chemical industry, fertilizer, chemical fiber, pharmacy, nuclear power, etc.
- Fluid stainless steel coil tube: beverage, beer, milk, water supply system, medical device etc.
- Stainless steel coil tube for machine structural application: dyeing, printing, textile machinery, kitchen equipment, auto and marine parts, building and decorations.

# Manufacturing Process



# Drawing & Formula



## Formula:

$$m = (OD - THK) \times THK \text{ (mm)} \times L \text{ (m)} \times 0.02491$$

\* For 316, 316L, 310S, 309S, etc., ratio=0.02507  
OD = Outer diameter, THK = Wall Thickness, L = Length



# Size Range

Size	Size	Size	Size
0.4*0.11	1.6*0.15	2.5*0.75	4.5*0.5
0.5*0.15	1.6*0.2	2.5*0.8	4.5*1.0
0.6*0.15	1.6*0.25	2.55*0.13	4.7*1.0
0.63*0.15	1.6*0.3	2.55*0.8	5.0*0.2
0.7*0.15	1.6*0.4	2.6*0.2	5.0*0.25
0.8*0.125	1.7*0.15	2.8*0.2	5.0*0.3
0.8*0.15	1.7*0.25	3.0*0.15	5.0*0.35
0.9*0.15	1.8*0.11	3.0*0.2	5.0*0.5
1.0*0.1	1.8*0.125	3.0*0.25	5.0*1.0
1.0*0.125	1.8*0.15	3.0*0.3	5.0*1.5
1.0*0.135	1.8*0.2	3.0*0.5	5.5*0.2
1.0*0.15	2.0*0.125	3.2*0.2	6.0*1.5
1.0*0.16	2.0*0.15	3.2*0.5	6.0*0.8
1.1*0.115	2.0*0.2	3.4*0.2	6.0*2.0
1.1*0.12	2.0*0.25	3.5*0.2	6.35*0.3
1.1*0.125	2.0*0.3	3.5*0.25	6.35*0.35
1.1*0.135	2.0*0.4	3.5*0.5	6.35*0.5
1.1*0.14	2.0*0.5	3.5*1.0	6.35*0.7
1.1*0.15	2.0*0.7	3.5*1.2	6.35*0.8
1.1*0.2	2.1*0.5	3.7*0.2	6.35*1.25
1.2*0.1	2.1*0.55	3.7*0.25	6.35*1.65
1.2*0.125	2.1*0.65	3.8*0.2	6.35*1.8
1.2*0.135	2.1*0.7	3.8*0.25	6.35*0.89
1.2*0.15	2.2*0.2	4.0*0.2	6.35*1.24
1.2*0.2	2.2*0.3	4.0*0.25	6.35*1.65
1.3*0.1	2.2*0.6	4.0*0.35	6.5*0.3
1.3*0.11	2.2*0.8	4.0*0.4	6.5*0.4
1.3*0.12	2.3*0.2	4.0*0.5	6.5*0.5
1.3*0.125	2.3*0.25	4.0*0.7	6.5*0.6
1.3*0.15	2.5*0.18	4.0*1.0	7.0*0.2
1.3*0.3	2.5*0.2	4.2*0.25	7.0*0.3
1.4*0.15	2.5*0.25	4.4*0.25	7.0*0.5
1.4*0.2	2.5*0.3	4.4*0.4	7.0*1.0
1.4*0.25	2.5*0.4	4.5*0.2	8.0*0.2

# Delivery State

Size	Size	Size	Size
1.45*0.1	2.5*0.5	4.5*0.25	8.0*0.5
1.5*0.125	2.5*0.55	4.5*0.3	9.52*0.89
1.5*0.15	2.5*0.6	5.5*0.25	9.52*1.24
1.5*0.2	2.5*0.7	5.5*0.3	9.52*1.65
1.5*0.25	3.0*0.6	5.5*0.5	9.52*2.03
1.5*0.4	3.0*0.7	5.5*1.0	12.7*1.24
1.55*0.325	3.0*0.9	6.0*0.15	12.7*1.65
1.6*0.1	3.0*1.0	6.0*0.2	12.7*2.03
1.8*0.25	3.0*1.2	6.0*0.25	15.88*1.24
1.8*0.4	3.1*0.55	6.0*0.3	15.88*1.65
1.9*0.15	3.18*0.71	6.0*0.5	
2.0*0.1	3.18*0.89	6.0*1.0	

Delivery State Choice	Surface Condition
AP: Annealed and Pickled	Pickled
MP: Mechanically Polished	Polished
BA: Bright Annealed	Bright
EP: Electro-Polished	Polished

Note: 1. If you require different deliver state than the above listed, kindly confirm with us.  
2. In case of any enquiry or order, please kindly let us know any extra requirement not indicated here.

# Package

Daxun packs all stainless steel coils in accordance with international standards to prevent damage or loss. Our packaging options include woven strapping, waterproof woven plastic bags, hardwood pallets, wooden rolls and wooden boxes. We can also provide customized packaging according to your specific requirements.



# Logistics

By default, we will quote based on sea transportation, such as FOB, CFR, CIF and the like for most enquiries or orders. Quotation based on air transportation is also optional upon your request for urgent demands.



**DAXUN**

## FAQ

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Q: Can you process SS seamless pipes into polished finish?

A: Yes, for stainless steel seamless pipe, polished finish is also available, like simple rough polishing. For precise polishing, we can polish the pipes to # 240 and # 320 as per your demand. Stainless steel sanitary seamless pipe is such an example. By default, SS seamless pipe features pickled finish as many of our photos illustrate.

Q: What is the standard length? Can I have the tubes/pipes cut into the length I want?

A: Our standard length of SS pipe is 5.8m or 6meter for most overseas orders. We can also make the pipe length as long as 12 or 13 meters for your reference.

Yes, we can cut pipes into the length you want, but this can incur extra cost. In case of order, please also indicate the cutting method you prefer. We have laser cutting, plasma cutting and water-jet cutting for your options.

Q: Do you also have SS pipe fittings?

A: Yes, we have, like elbows, flanges, reducers, etc. For detailed information, please kindly refer to our product.

Q: Where's your main market?

A: South America, South-East Asia, Middle-East, Europe and so on.

Q: What's your package for SS pipe?

A: By default, our package is thick woven plastic bag, but we also provide wooden case or dedicated package as per your requirement. You can also refer to our pictures for better understanding.

Q: How long is your delivery time of SS welded tube?

Normally, it takes two weeks for us to complete production of SS welded tube for order quantity less than two containers, but the delivery time might also be influenced by other factors such as special grade, special size, large quantity of the product itself, or some force majeure.

Q: What's the finish of your stainless steel square pipe?

A: For industrial application, the finish of our stainless steel square pipe is No.1 or pickled finish. We can also do polished SS square pipe, like 320#, 400# for your specific requirement.

Q: Do you have seamless stainless steel rectangle pipe?

A: Yes, we have. Our stainless steel rectangle pipe is available in both processes: welded or seamless for your specific requirement.

## FAQ

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Q: What's your SS coiled tubing process?

A: Either of the two: 1)TIG welded and cold drawn 2)Seamless and cold drawn.

Q: What's the difference between stainless steel sanitary tube and stainless steel industrial tube?

A: Stainless steel sanitary tube is either SS seamless tube or SS welded tube in terms of process. SS sanitary tubes are usually required to get polished both inside and outside so that the inside pipe wall will be smooth enough to prevent water pollution caused by accumulated residuals. Sanitary stainless steel tubes are the ideal pipe material for city water supply system, desalination, gas transportation and the like.

In contrast, industrial stainless steel tubes are pickled and passivated both inside and outside, possessing good features like reliability, security, and economy. Industrial SS tubes, used as underground pipes and long-distance pipelines, feature light weight, high strength, corrosion resistance and long service life.

Q: What's the standard package for your SS sanitary tube?

A: Each stainless steel sanitary tube will be packaged in waterproof plastic bag individually with pipe caps assembled at both ends, and then bundled together to be further protected with woven plastic bag. As per your request, we can also provide wooden case package or other customized package.

Q: What standard do you follow for the thick-walled SS pipes?

A: The common standard for stainless steel thick-walled pipe or stainless steel hollow bar we follow is ASTM A511. Unlike fluid-carrying seamless tubes, these SS thick-walled pipes are for use in mechanical applications or as hollow bar for use in the production of hollow components such as, but not limited to nozzles, reducers, and couplings by machining where corrosion-resistant or high-temperature strength is needed.

Q: How many delivery states do you have for SS capillary tubes?

A: We have 4 delivery states for your choice: Annealed and pickled (AP), Mechanically Polished (MP), Bright Annealed (BA) and Electro-polished (EP).

Q: What's your standard package for EP tubes?

A: For our EP grade stainless steel tubes, both ends of the finished tubes are protected with PA film and rubber tube caps. Anti-static bags are also used to further protect these tubes. At last, they will be placed into the wooden case.

Q: Which capillary tubes are the most popular?

A: BA grade and EP grade 316L capillary tubes are the most popular tubes at home and abroad. The most applied standard is ASTM A269 for your reference.



