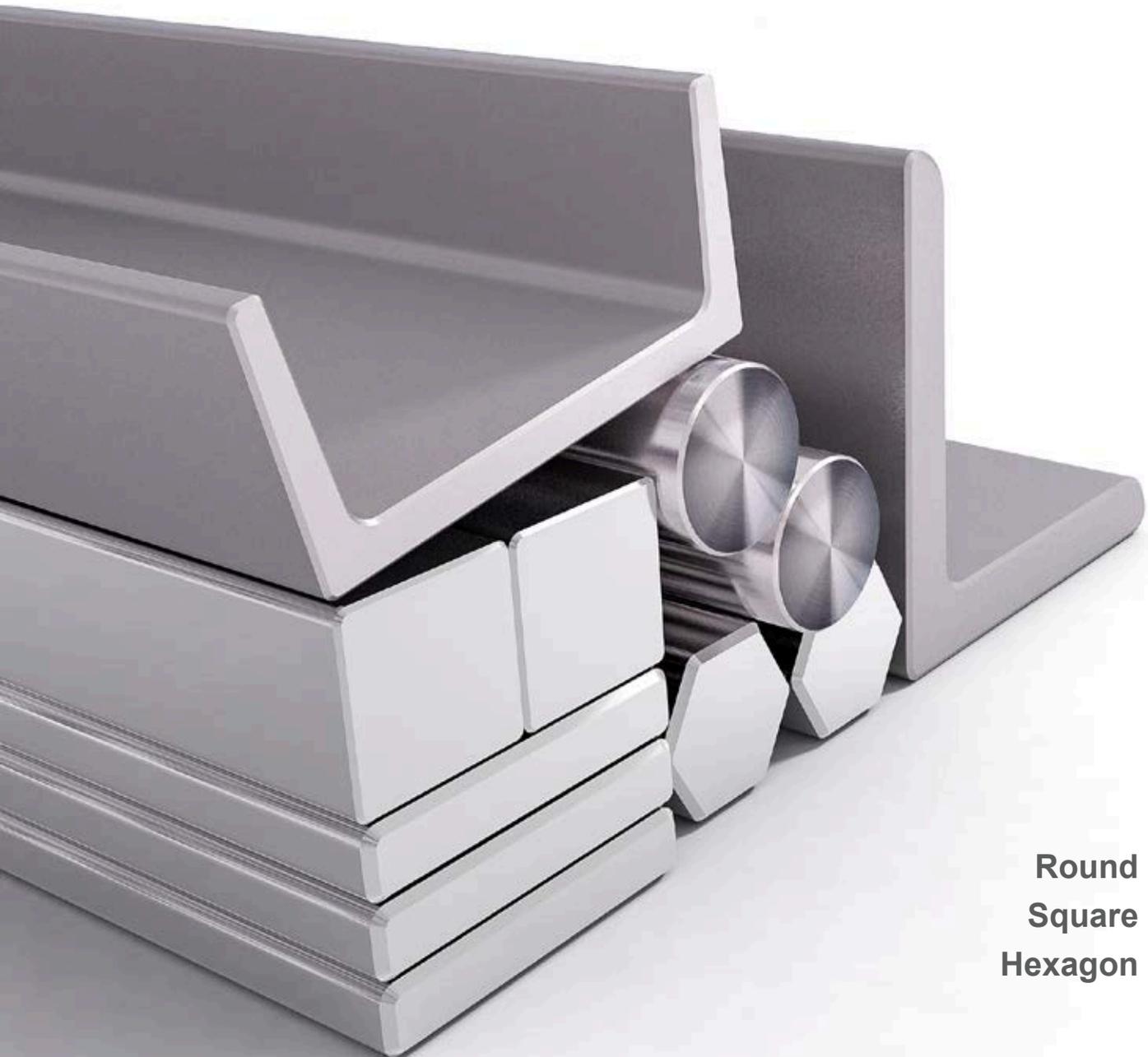


BAR & ROD

Stainless Steel Catalogue

DAXUN

Daxun alloy



Round Bar
Square Bar
Hexagon Bar

CONTENT

Basic Information



Products

 Round Bar 10	Basic Information	..... 11-12
	Manufacturing Process	..... 13
	Drawing & Formula	..... 14
	Tolerance	..... 15
	Delivery State	..... 16

 Square Bar 34	Basic Information	..... 35-36
	Manufacturing Process	..... 37
	Drawing & Formula	..... 38
	Tolerance	..... 39
	Delivery State	..... 40

 Hexagon Bar 42	Basic Information	..... 43-44
	Manufacturing Process	..... 45
	Drawing & Formula	..... 46
	Tolerance	..... 47
	Delivery State	..... 48

WHO WE ARE

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.

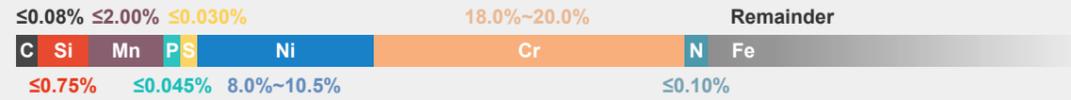
Our product features

Our time-tested Stainless steel

Main Grades of Stainless Steel Bar & Rod

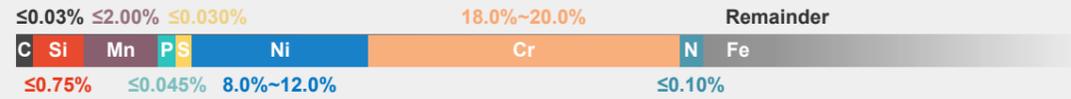
304

AISI304, SUS304, S30400, 1.4301



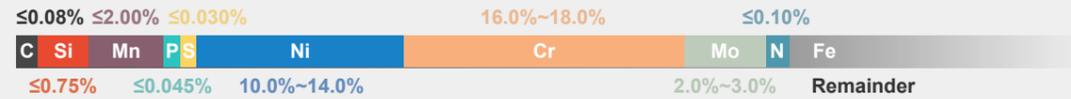
304L

AISI304L, SUS304L, S30403, 1.4306



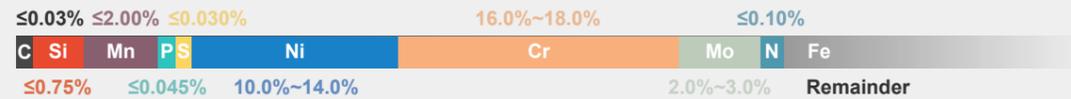
316

AISI316, SUS316, S31600, 1.4401



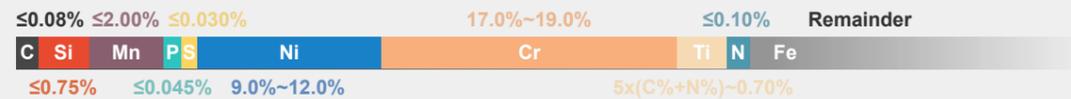
316L

AISI316L, SUS316L, S31603, 1.4404



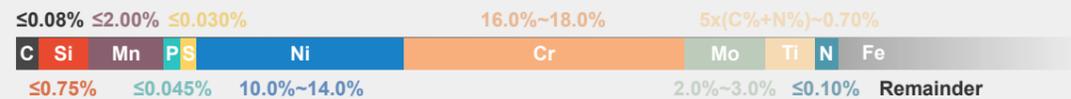
321

AISI321, SUS321, S32100, 1.4541



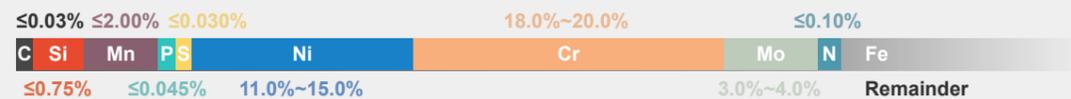
316Ti

AISI316Ti, SUS316Ti, S31635, 1.4571



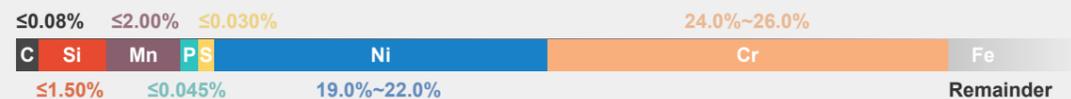
317L

AISI317L, SUS317L, S31726, 1.4438



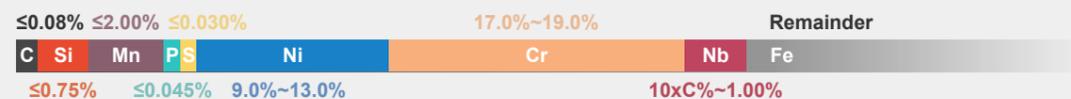
310S

AISI310S, SUS310S, S31008, 1.4845



347

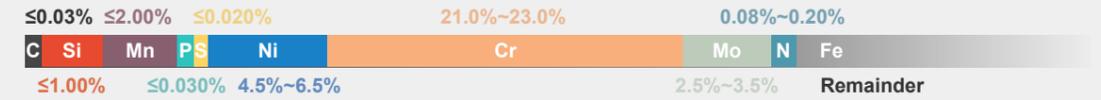
AISI347, SUS347, S34700, 1.4550



Main Grades of Stainless Steel Bar & Rod

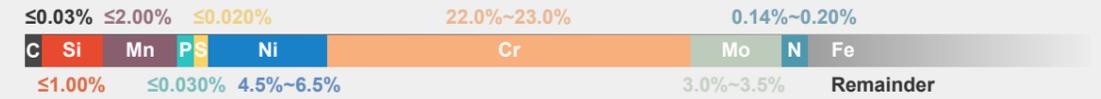
S31803

F51, SUS329J3L, 1.4462



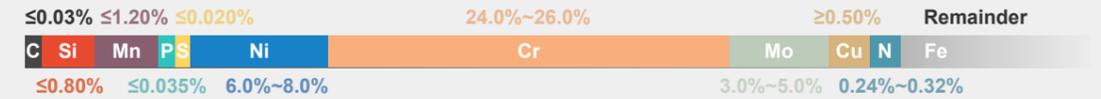
S32205

2205, SUS329J3L, F51, 1.4462



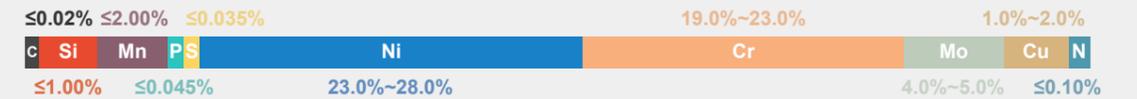
S32750

2507, NAS74N, F53, 1.4410



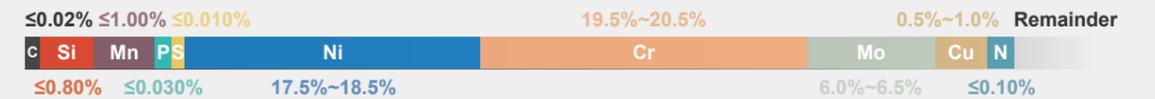
904L

AISI904L, SUS904L, N08904, 1.4539



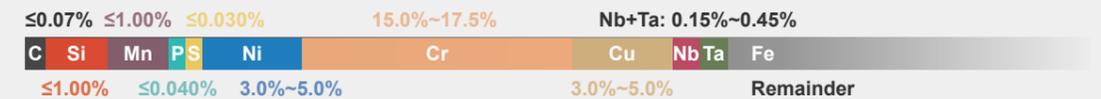
254SMo

AISI254SMo, SUS254SMo, S31254, 1.4547



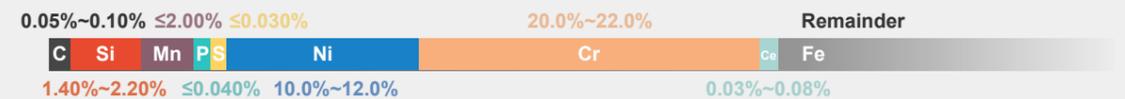
17-4PH

AISI630, SUS630, S17400, 1.4542



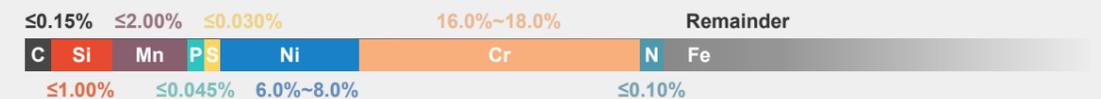
253MA

AISI253MA, SUS253MA, S30815, 1.4835



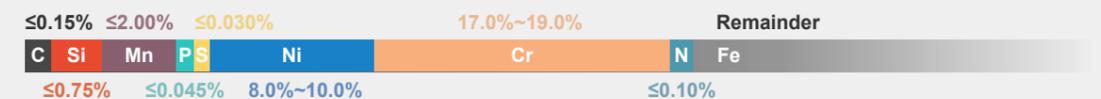
301

AISI301, SUS301, S30100, 1.4319



302

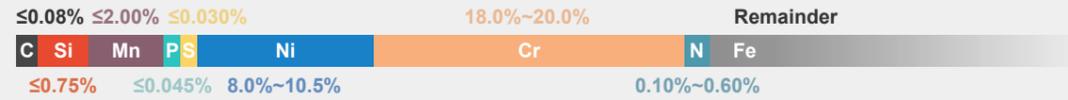
AISI302, SUS302, S30200, 1.4318



Main Grades of Stainless Steel Bar & Rod

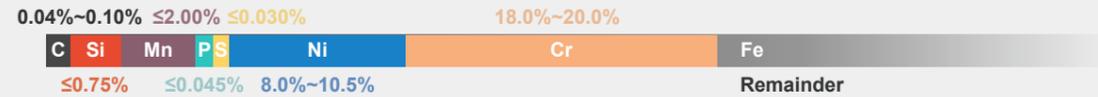
304N

AISI304N, SUS304N1, S30451, 1.4315



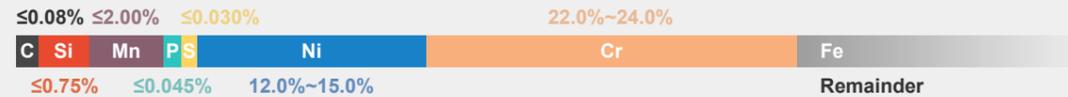
304H

AISI304H, SUS304, S30409, 1.4948



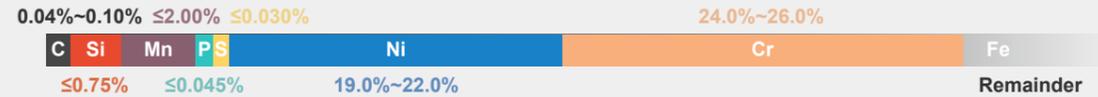
309S

AISI309S, SUS309S, S30908, 1.4833



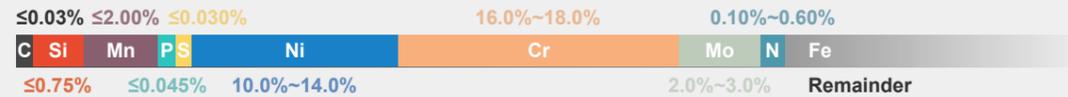
310H

AISI310H, SUS310H, S31009, 1.4845



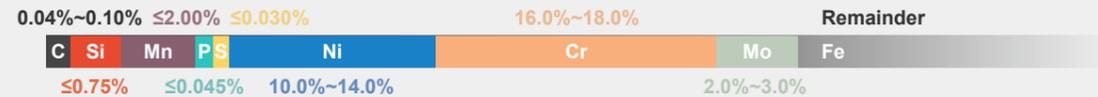
316LN

AISI316LN, SUS316LN1, S31653, 1.4429



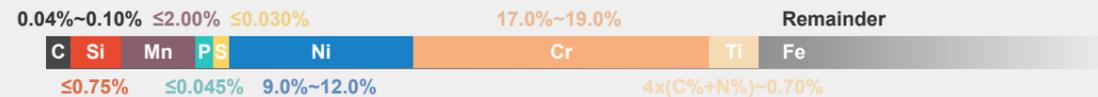
316H

AISI316H, SUS316H, S31609, 1.4436



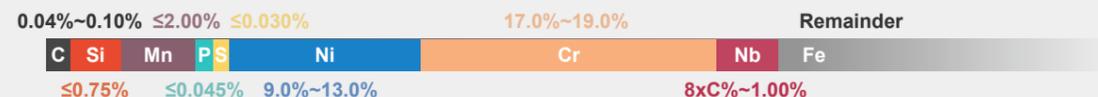
321H

AISI321H, SUS321H, S32109, 1.4541



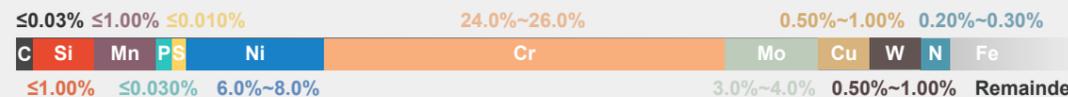
347H

AISI347H, SUS347H, S34709, 1.4912



S32760

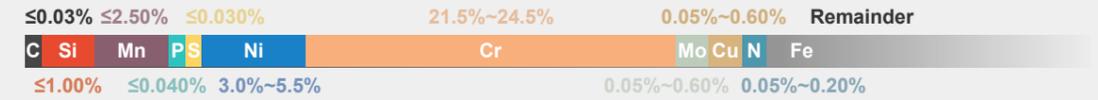
F55, 1.4501



Main Grades of Stainless Steel Bar & Rod

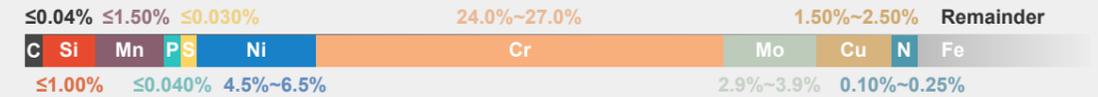
S32304

2304, DP11, 1.4362



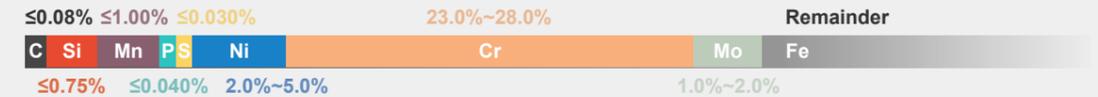
S32550

255, SUS329J4L, QSA2505, 1.4507



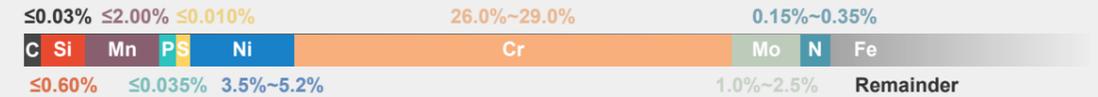
S32900

329, SUS329J1, 1.4477



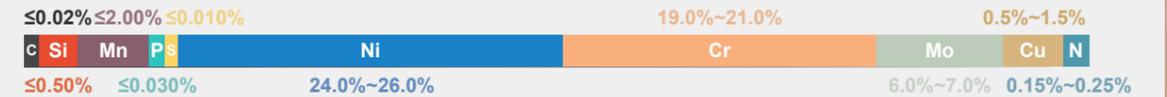
S32950

F52



926

AISI926, SUS926, N08926, 1.4529



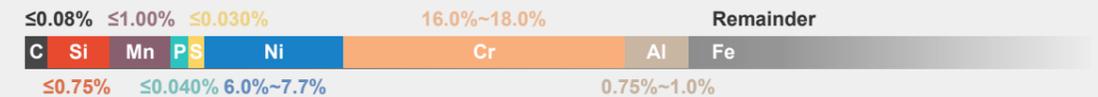
654SMo

AISI654SMo, SUS654SMo, S32654, 1.4652



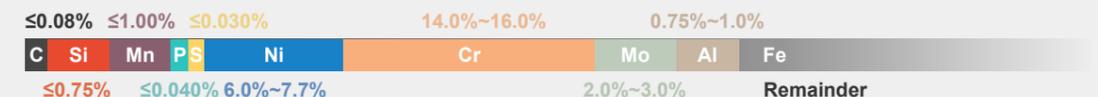
17-7PH

AISI631, SUS631, S17700, 1.4568



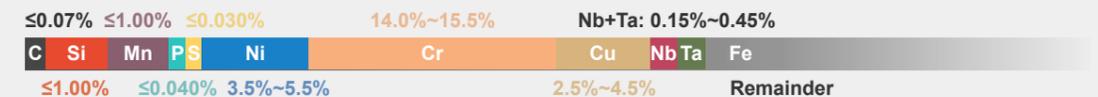
PH15-7Mo

AISI630, SUS630, S15700, 1.4542



15-5PH

S15500



Main Grades of Stainless Steel Bar & Rod

410

AISI410, SUS410, S41000, 1.4006

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



410S

AISI410S, SUS410S, S41008, 1.4000

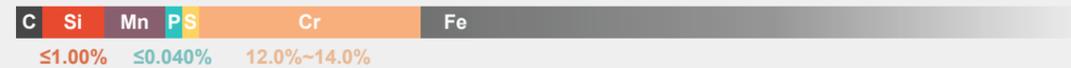
≤0.08% ≤1.00% ≤0.030% 11.5%~13.5%



420

AISI420, SUS420J1, SUS420J2, 1.4021, 1.4028, S42000

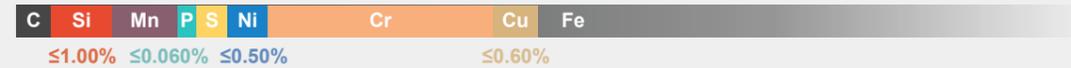
≥0.15% ≤1.00% ≤0.030% Remainder



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

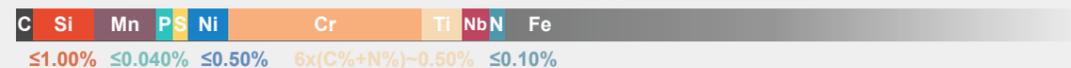
0.95%~1.20% ≤1.00% ≤0.030% ≤0.75%



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 Bar & Rod

430

AISI430, SUS430, S43000, 1.4016

≤0.12% ≤1.00% ≤0.030% 16.0%~18.0%



434

AISI434, SUS434, S43400, 1.4113

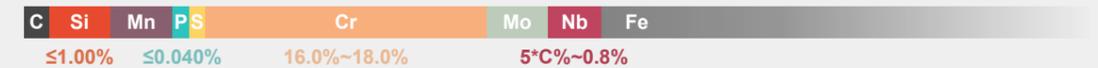
≤0.12% ≤1.00% ≤0.030% 0.75%~1.25%



436

AISI436, SUS436, S43600, 1.4536

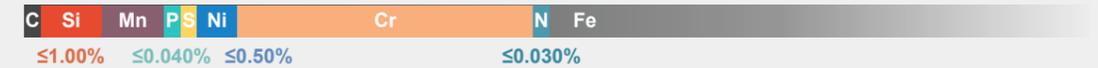
≤0.12% ≤1.00% ≤0.030% 0.75%~1.25% Remainder



439

AISI439, SUS430LX, S43035, 1.4510

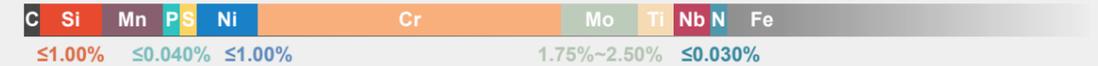
≤0.03% ≤1.00% ≤0.030% 17.0%~19.0% Remainder



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



Package

IDaxun packs all stainless steel rods 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 box itself, but also for higher shipping costs, 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



Round Bar



Specifications

- Diameter: 2mm-600mm
- Delivery State: Cold Drawn, Hot Rolled, Forged, Grinding, Centerless Grinding
- Finish: Bright, Polishing, Mirror, Hairline, Pickled, Peeled, Black
- Hot-selling Products:
 - a. Stainless Steel Black Bar
 - b. Stainless Steel Bright Bar
 - c. S.S. Hot Rolled Round Bar
 - d. Stainless Steel Forged Bar
- Tolerance: h9, h11

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

Stainless steel round bars fall into two categories : long products and bar materials. SS round bar is a long stainless steel product with a round cross-section.

The stainless circular bar can be customized in lengths such as 5.8m, 6m, and 4m. Bright stainless steel round bar is a cold drawn bar with a bright, smooth finish. Black bar stainless steel is hot rolled SS bar with a black surface, also known as an oxide skin, that forms after being exposed to high temperatures. Stainless steel round bars (also known as stainless steel rods) are widely used in a variety of industries, including kitchenware, shipbuilding, petrochemicals, equipment, medicine, food, electricity, energy, aerospace, construction and decoration, underwater equipment, chemistry, dye, papermaking, oxalate, fertilizer production equipment, photography, coastland facilities, wire ropes, CD rods, screws, and nuts.

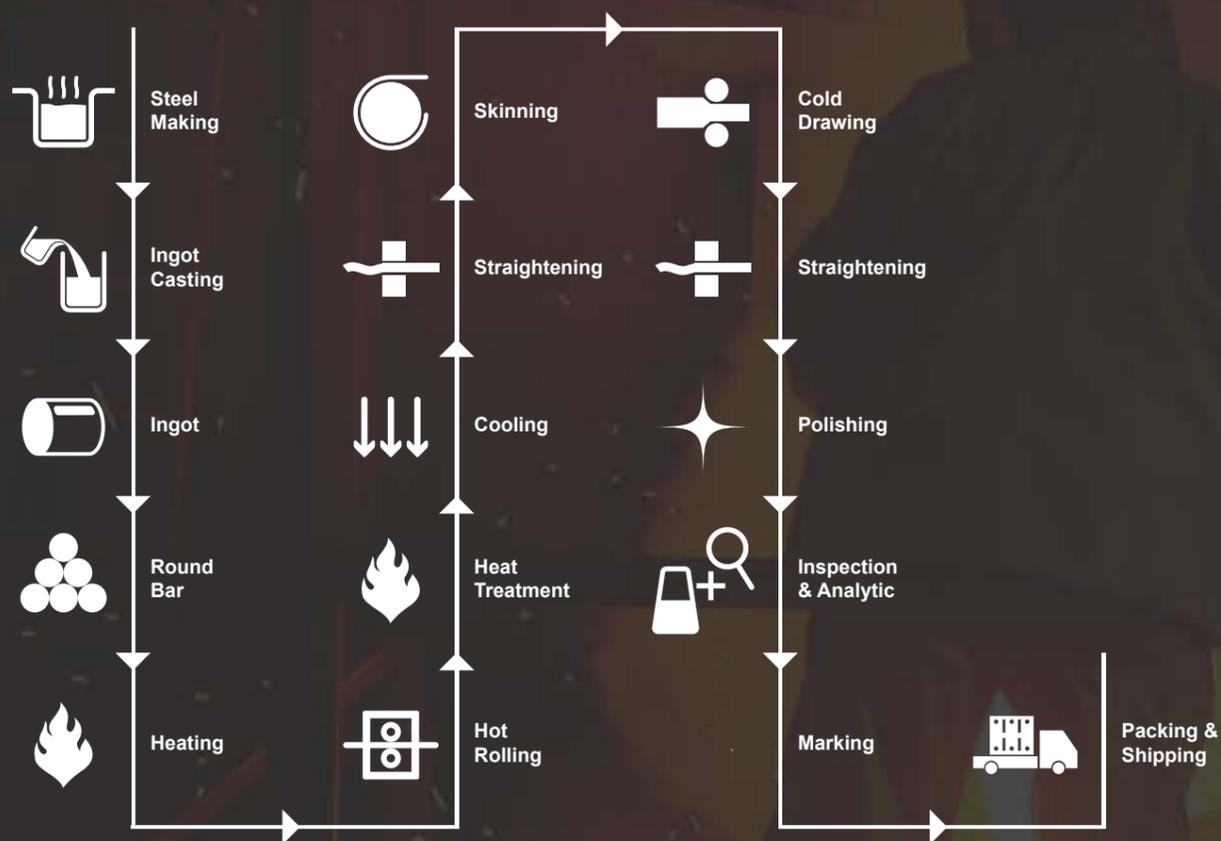
Standards

ASTM A276, ASTM A484, ASTM A484M, DIN 671, DIN 1013, EN 10060, EN 10278, GB1220

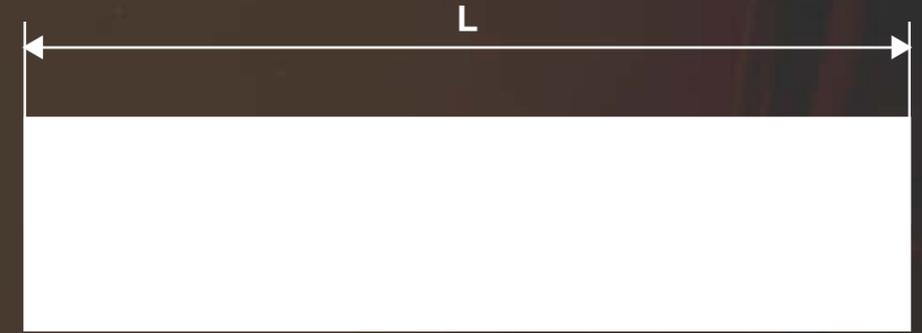
Features

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:

$$m = OD \text{ (mm)} \times OD \text{ (mm)} \times L \text{ (m)} \times 0.00623$$

* For 400 series stainless steel, ratio=0.00609
 OD = Outer diameter, L = Length

Tolerance

Tolerance for Hot Rolled Round Bars

Size	Tolerance Rank		
	Group 1	Group 2	Group 3
>7 ~ ≤20	±0.25	±0.35	±0.40
>20 ~ ≤30	±0.30	±0.40	±0.50
>30 ~ ≤50	±0.40	±0.50	±0.60
>50 ~ ≤80	±0.60	±0.70	±0.80
>80 ~ ≤110	±0.90	±1.00	±1.10
>110 ~ ≤150	±1.20	±1.30	±1.40

Tolerance for Hot Forging Round Bars

Size	Tolerance Rank	
	Group 1	Group 2
>50 ~ ≤60	+1.5 -1.0	+2.0 -1.0
>60 ~ ≤80	+2.0 -1.0	+2.5 -1.0
>80 ~ ≤100	+2.5 -1.0	+3.0 -1.0
>100 ~ ≤120	+2.5 -1.5	+3.0 -1.5
>120 ~ ≤140	+3.0 -1.5	+3.5 -1.5
>140 ~ ≤160	+3.0 -2.0	+4.0 -2.0
>160 ~ ≤180	+4.0 -2.0	+5.0 -2.0
>180 ~ ≤200	+5.0 -2.0	+6.0 -2.0
>200 ~ ≤220	+5.0 -3.0	+6.0 -3.0
>220 ~ ≤240	+6.0 -3.0	+7.0 -3.0
>240 ~ ≤250	+7.0 -3.0	+8.0 -3.0
>250 ~ ≤300	+8.0 -3.0	+9.0 -3.0

Tolerance for Cold Drawn Round Bars

Size	Tolerance Rank					
	H8	H9	H10	H11	H12	H13
3	0 ~ -0.014	0 ~ -0.025	0 ~ -0.040	0 ~ -0.060	0 ~ -0.100	0 ~ -0.140
>3 ~ ≤6	0 ~ -0.018	0 ~ -0.030	0 ~ -0.048	0 ~ -0.075	0 ~ -0.120	0 ~ -0.180
>6 ~ ≤10	0 ~ -0.022	0 ~ -0.036	0 ~ -0.058	0 ~ -0.090	0 ~ -0.150	0 ~ -0.220
>10 ~ ≤18	0 ~ -0.027	0 ~ -0.043	0 ~ -0.070	0 ~ -0.110	0 ~ -0.180	0 ~ -0.270
>18 ~ ≤30	0 ~ -0.033	0 ~ -0.052	0 ~ -0.084	0 ~ -0.130	0 ~ -0.210	0 ~ -0.330
>30 ~ ≤50	0 ~ -0.039	0 ~ -0.062	0 ~ -0.100	0 ~ -0.160	0 ~ -0.250	0 ~ -0.390
>50 ~ ≤80	0 ~ -0.046	0 ~ -0.074	0 ~ -0.120	0 ~ -0.190	0 ~ -0.300	0 ~ -0.460

Delivery State

Delivery State Choice	Surface Condition
Forged	Black
	Polished
Hot Rolled	Black
	Polished
	Bright
	Pickled
Cold Drawn	Polished
	Bright

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.

DAXUN



Flat
Bar



Specifications

- Dimension: 3mm - 180mm
- Delivery State: Cold Drawn, Hot Rolled, Grinding, Forged, Centerless Grinding
- Finish: Polished, Bright, Hairline, Grinded, Sandblast, Pickled, Mill Finish

Standards

ASTM A276, ASTM A484M, ASTM A582, DIN 178, DIN1014, EN 10059, EN10278

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.

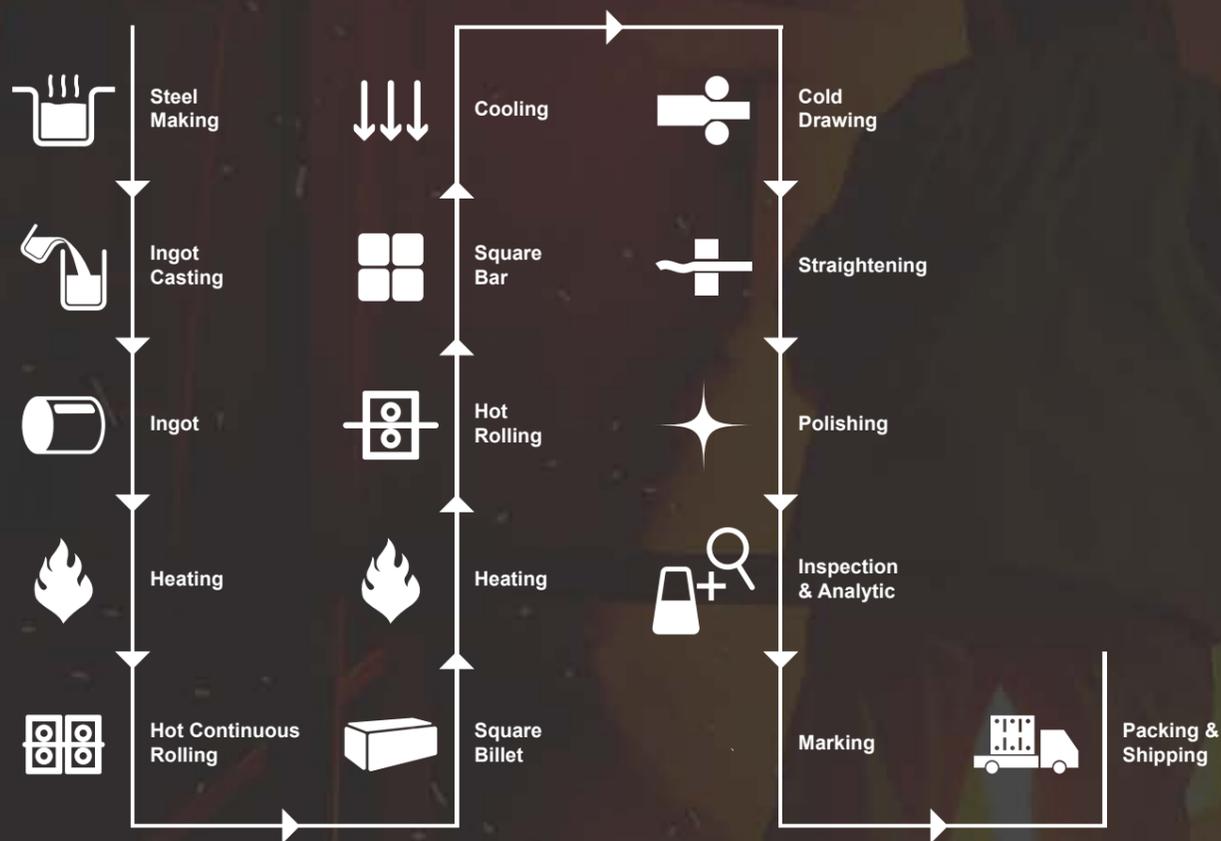
Introduction

Stainless Steel Square Bars are long stainless steel products with a square cross-section. Daxun can manufacture cold drawn, hot rolled and hot forged SS Square Bars to your specifications. The main ASTM standards we manufacture stainless steel square bars to include A276, A479, A182 and A484. We offer cold drawn and hot rolled stainless steel square bars in sizes ranging from 50×50mm to 80×80mm. By default, we manufacture hot rolled/ forged SS square bars of 80×80mm and above. We can provide a wide range of sizes and grades to meet your specific requirements. Custom sizes or grades are allowed when the minimum order quantity exceeds one ton. Our stainless steel square bars are ideal for manufacturing machined components or for use as connectors.

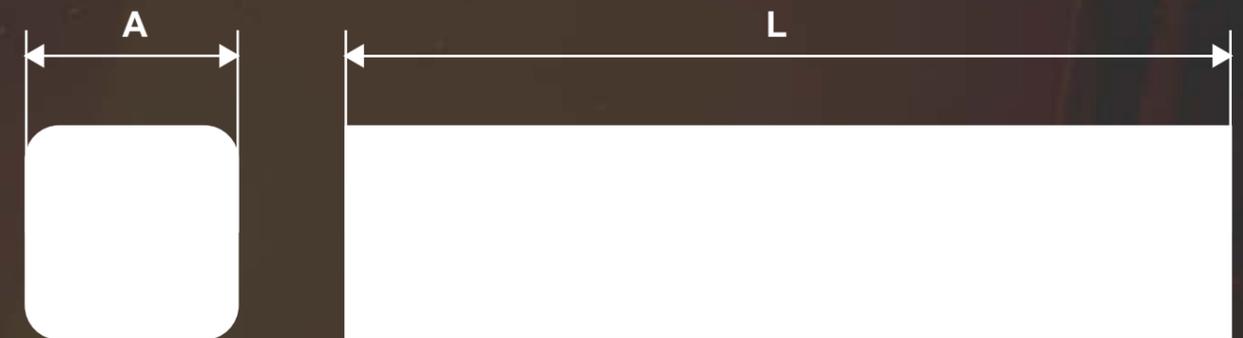
Features

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:

$$m = A \text{ (mm)} \times A \text{ (mm)} \times L \text{ (m)} \times 0.00793$$

* For 316, 316L, 310S, 309S, etc., ratio=0.00798. For 400 series stainless steel, ratio=0.00775

A = Side width, L = Length

Tolerance

Tolerance for Hot Rolled Square Bars

Size	Tolerance Rank		
	Group 1	Group 2	Group 3
>7 ~ ≤20	±0.25	±0.35	±0.40
>20 ~ ≤30	±0.30	±0.40	±0.50
>30 ~ ≤50	±0.40	±0.50	±0.60
>50 ~ ≤80	±0.60	±0.70	±0.80
>80 ~ ≤110	±0.90	±1.00	±1.10
>110 ~ ≤150	±1.20	±1.30	±1.40

Tolerance for Hot Forging Square Bars

Size	Tolerance Rank	
	Group 1	Group 2
>50 ~ ≤60	+1.5 -1.0	+2.0 -1.0
>60 ~ ≤80	+2.0 -1.0	+2.5 -1.0
>80 ~ ≤100	+2.5 -1.0	+3.0 -1.0
>100 ~ ≤120	+2.5 -1.5	+3.0 -1.5
>120 ~ ≤140	+3.0 -1.5	+3.5 -1.5
>140 ~ ≤160	+3.0 -2.0	+4.0 -2.0
>160 ~ ≤180	+4.0 -2.0	+5.0 -2.0
>180 ~ ≤200	+5.0 -2.0	+6.0 -2.0
>200 ~ ≤220	+5.0 -3.0	+6.0 -3.0
>220 ~ ≤240	+6.0 -3.0	+7.0 -3.0
>240 ~ ≤250	+7.0 -3.0	+8.0 -3.0
>250 ~ ≤300	+8.0 -3.0	+9.0 -3.0

Tolerance for Cold Drawn Square Bars

Size	Tolerance Rank					
	H8	H9	H10	H11	H12	H13
3	0 ~ -0.014	0 ~ -0.025	0 ~ -0.040	0 ~ -0.060	0 ~ -0.100	0 ~ -0.140
>3 ~ ≤6	0 ~ -0.018	0 ~ -0.030	0 ~ -0.048	0 ~ -0.075	0 ~ -0.120	0 ~ -0.180
>6 ~ ≤10	0 ~ -0.022	0 ~ -0.036	0 ~ -0.058	0 ~ -0.090	0 ~ -0.150	0 ~ -0.220
>10 ~ ≤18	0 ~ -0.027	0 ~ -0.043	0 ~ -0.070	0 ~ -0.110	0 ~ -0.180	0 ~ -0.270
>18 ~ ≤30	0 ~ -0.033	0 ~ -0.052	0 ~ -0.084	0 ~ -0.130	0 ~ -0.210	0 ~ -0.330
>30 ~ ≤50	0 ~ -0.039	0 ~ -0.062	0 ~ -0.100	0 ~ -0.160	0 ~ -0.250	0 ~ -0.390
>50 ~ ≤80	0 ~ -0.046	0 ~ -0.074	0 ~ -0.120	0 ~ -0.190	0 ~ -0.300	0 ~ -0.460

Delivery State

Delivery State Choice	Surface Condition
Forged	
Hot Rolled	Pickled
	Sand Blasting
Cold Drawn	Bright

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.

DAXUN



Hexagon
Bar



Specifications

- Dimension: 6mm-80mm
- Delivery State: Cold Drawn

Standards

ASTM A276, ASTM A484M, DIN 176, EN10278

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.

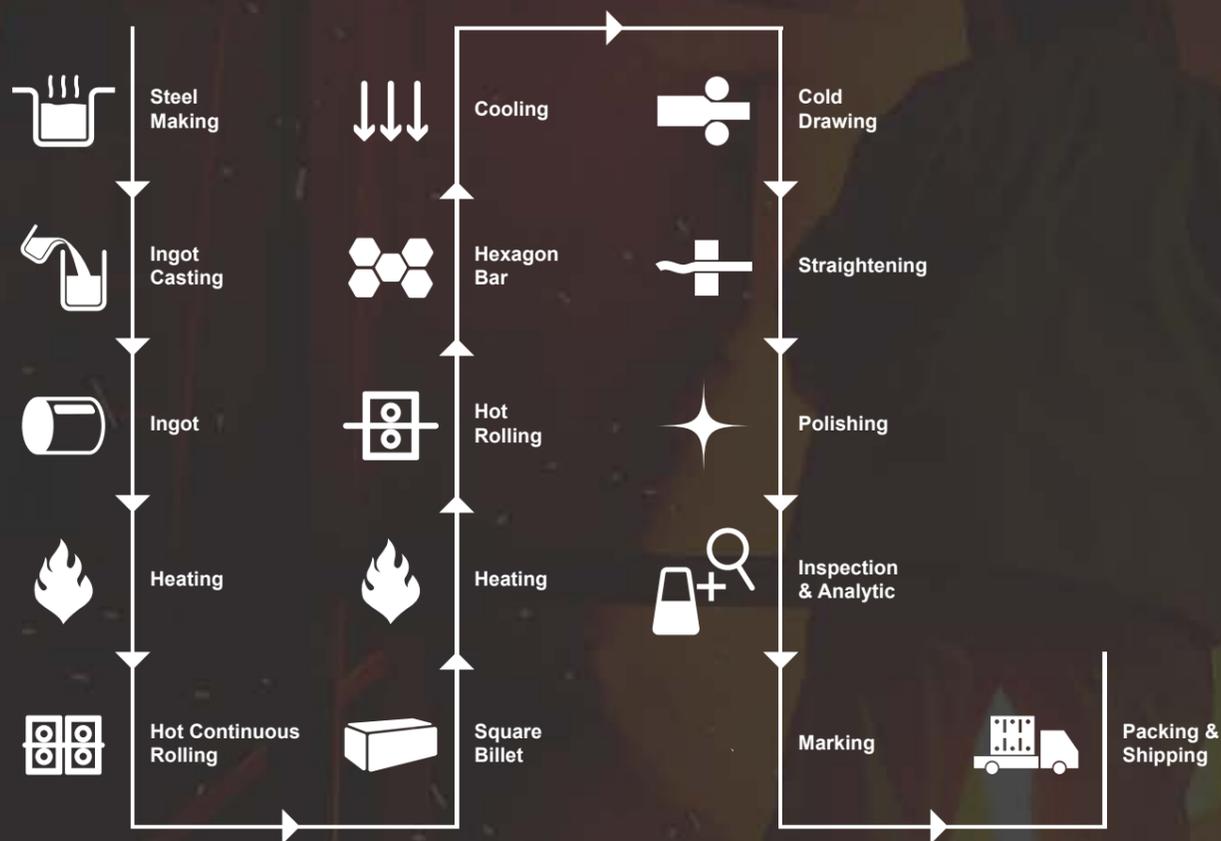
Introduction

Stainless steel hexagonal bar is a solid stainless steel long product with a hexagonal cross section. Daxun produces stainless steel hexagonal bar in many sizes and grades. The most commonly used specification is ASTM A276, which covers hot-worked and cold-worked bars. Stainless steel hexagonal bars are often used to make machined parts such as hexagonal bolts, nuts and plugs because of their high precision (tolerance can reach $\pm 0.01\text{mm}$), bright and smooth surface, corrosion resistance, high tensile strength and high fatigue strength. In addition, SS hexagonal bars are also used in automobiles, elevators, kitchen appliances, pressure vessels and other promising industries because they are safe for the environment and have a long service life.

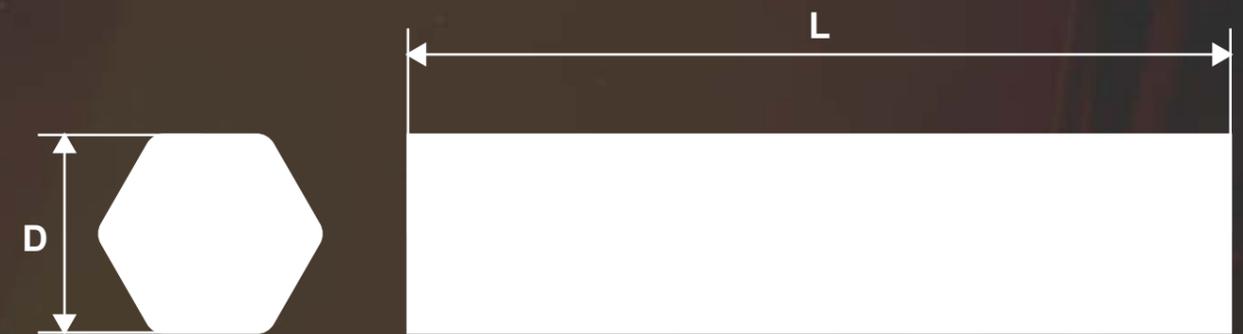
Applications

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.

Manufacturing Process



Drawing & Formula



Formula:

$$m = D \text{ (mm)} \times D \text{ (mm)} \times L \text{ (m)} \times 0.00686$$

D = Diameter between two adjacent side width, L = Length

Tolerance

Tolerance for Hot Rolled Hexagon Bars

Size	Tolerance Rank		
	Group 1	Group 2	Group 3
8 ~ 20	±0.25	±0.35	±0.40
21 ~ 30	±0.30	±0.40	±0.50
30 ~ 50	±0.40	±0.50	±0.60
50 ~ 70	±0.60	±0.70	±0.80

Tolerance for Cold Drawn Hexagon Bars

Size	Tolerance Rank					
	H8	H9	H10	H11	H12	H13
3	0 ~ -0.014	0 ~ -0.025	0 ~ -0.040	0 ~ -0.060	0 ~ -0.100	0 ~ -0.140
>3 ~ ≤6	0 ~ -0.018	0 ~ -0.030	0 ~ -0.048	0 ~ -0.075	0 ~ -0.120	0 ~ -0.180
>6 ~ ≤10	0 ~ -0.022	0 ~ -0.036	0 ~ -0.058	0 ~ -0.090	0 ~ -0.150	0 ~ -0.220
>10 ~ ≤18	0 ~ -0.027	0 ~ -0.043	0 ~ -0.070	0 ~ -0.110	0 ~ -0.180	0 ~ -0.270
>18 ~ ≤30	0 ~ -0.033	0 ~ -0.052	0 ~ -0.084	0 ~ -0.130	0 ~ -0.210	0 ~ -0.330
>30 ~ ≤50	0 ~ -0.039	0 ~ -0.062	0 ~ -0.100	0 ~ -0.160	0 ~ -0.250	0 ~ -0.390
>50 ~ ≤80	0 ~ -0.046	0 ~ -0.074	0 ~ -0.120	0 ~ -0.190	0 ~ -0.300	0 ~ -0.460

Delivery State

Delivery State Choice	Surface Condition
Hot Rolled	Polished
	Pickled
	Sand Blasting
Cold Drawn	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.

