# BAR&ROD

Stainless Steel Catalogue

# DAXUN

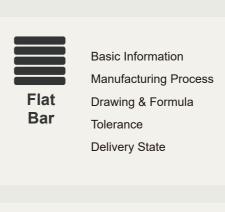




# **Basic Information**



# **Products**







# **Daxun Alloy**

304 /304L stainless steel flat bar or "flat stock", this product has a semi-smooth, dark gray surface and sharp edges, and accurate dimensions throughout the entire length. It has excellent mechanical properties and is resistant to many types of corrosion. It also has a variety of surface treatments for you to choose from. There are three manufacturing processes for 304 /304L stainless steel flat bar: 1. Cold drawing - cold drawing through a die has a higher uniformity and smooth surface. 2. Hot rolling - rolled in a hot state, generally large-sized flat bar. 3. Shearing using steel plate shearing to form, and then processed to flatten the body and smooth the edges.

Daxun's expertise enables us to meet the production of any stainless steel flat bar needs. From regular batches of low-cost, sheared flat bars to custom cold bars and polished flat bars, we are fully capable of exceeding your expectations and providing high-quality flat bar products.

We are one of the leading stainless steel flat bar suppliers in China, offering a wide range of flat bars in various thicknesses and widths. Daxun produces 304/304L and 316/316L hot rolled stainless steel flat bars. We also offer cold drawn stainless steel flat bars. All stock stainless steel flat bars come in standard lengths. Our sawing technology allows our customers to get the parts they need to start their manufacturing.

We offer a wide selection of flat bar grades in multiple sizes, so when you buy from us, you will get a product that is closer to your finished size requirements. We have a large inventory, so our products are very competitively priced and available for next day delivery.

Our stainless steel flat bars go through multiple manufacturing processes to ensure exceptionally consistent product quality. The steel is first hot rolled and then annealed for stress relief. This ensures maximum corrosion resistance. The final stage of the pickling process is to immerse the prepared flat bar in a compound solution to eliminate any residue or scale on the surface of the steel.

We can give the stainless steel flat bar an additional polishing based on your needs. Other grades and non-standard sizes are available upon request. Please contact sales for more information on our stainless steel flat bar inventory and processing capabilities.

#### **APPLICATIONS**

Daxun Company manufactures stainless steel flat bar products. We produce quality flat bars in modern facilities equipped with advanced machines and equipment. Our highly skilled staff works in shifts to provide quality services to our valued customers in China and abroad. We also maintain a built-in inventory in our strategically located facility in Wuxi to ensure on-time delivery of our products.

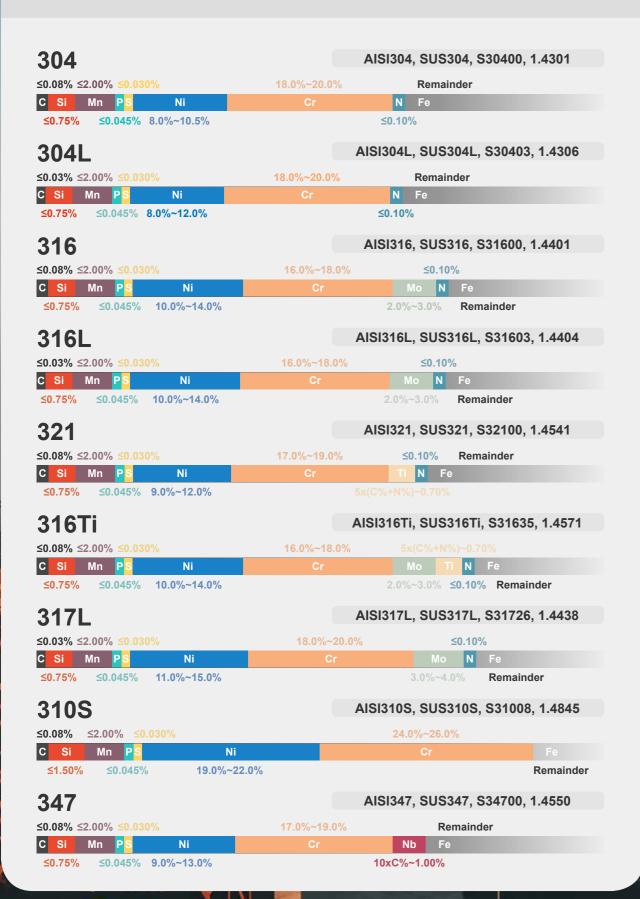
All our flat bars and their specifications are ultrasonically tested to differentiate them from our competitors. We produce multiple grades of stainless steel, namely, Stainless Steel 303, Stainless Steel 304, Stainless Steel 316, Stainless Steel 420, Stainless Steel 431, and Stainless Steel 2205.

# Request a quote

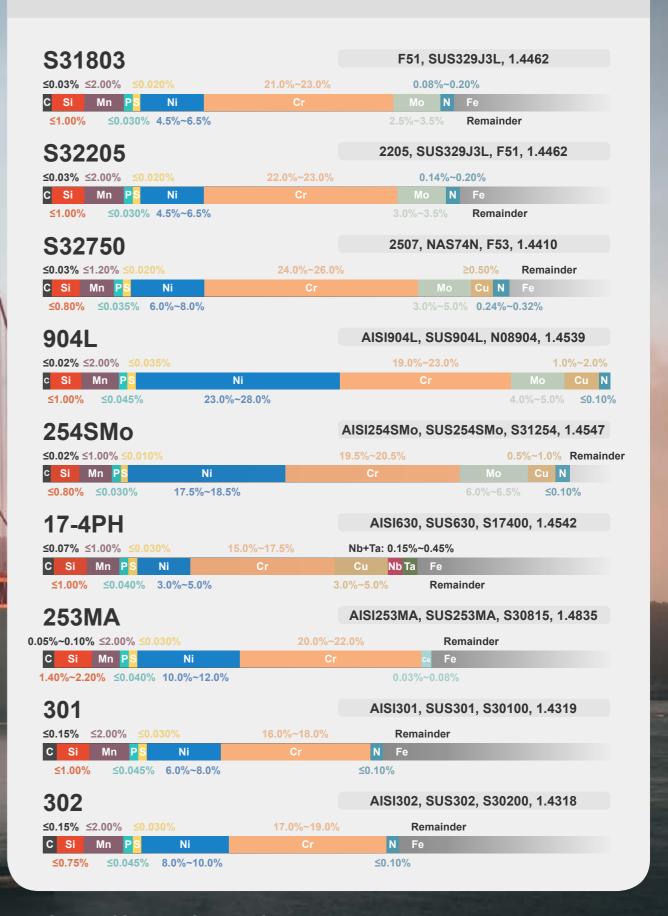
At Daxun, our capabilities allow us to meet any stainless steel flat bar need. From standard batches of affordable, edge treated flat bars to custom cut and polished true flat bars, we are fully capable of exceeding your expectations and providing you with a quality product.

1 WHO WE ARE WHO WE ARE 2

#### Main Grades of Stainless Steel Bar & Rod

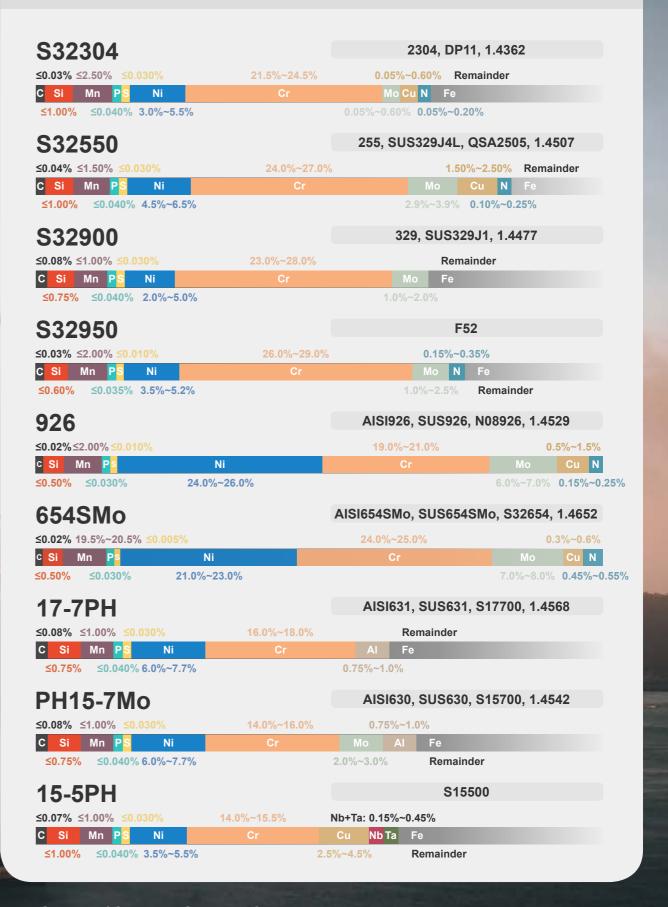


#### Main Grades of Stainless Steel Bar & Rod

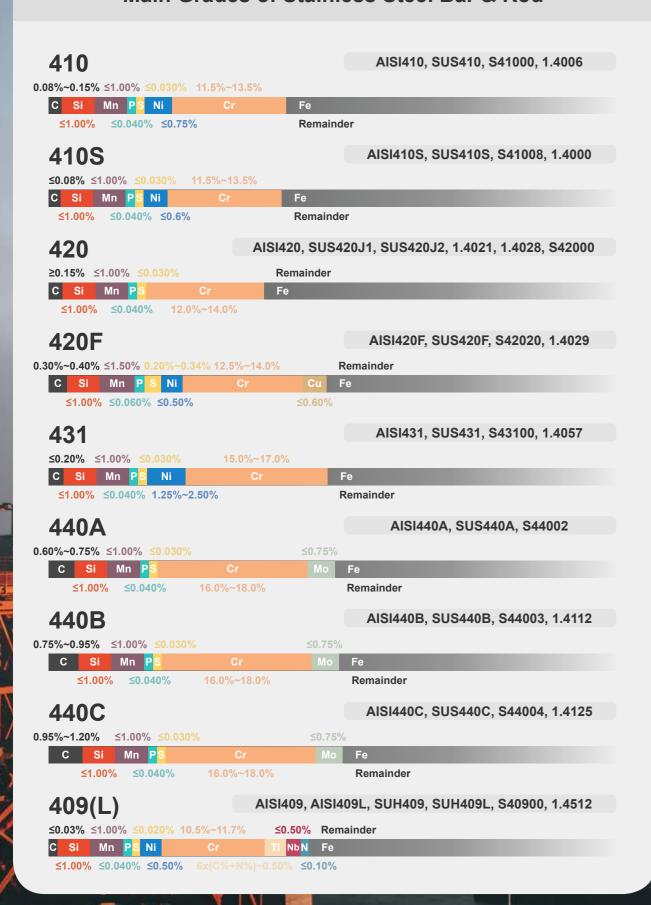


#### Main Grades of Stainless Steel Bar & Rod 304N AISI304N, SUS304N1, S30451, 1.4315 ≤0.08% ≤2.00% ≤0.030% Remainder N Fe C Si Mn PS Ni **≤0.75%** ≤0.045% 8.0%~10.5% 0.10%~0.60% AISI304H, SUS304, S30409, 1.4948 304H 0.04%~0.10% ≤2.00% ≤0.030% C Si Mn PS **≤0.75%** ≤0.045% 8.0%~10.5% Remainder 309S AISI309S, SUS309S, S30908, 1.4833 ≤0.08% ≤2.00% ≤0.030% C Si Mn PS **≤0.75%** ≤0.045% 12.0%~15.0% Remainder 310H AISI310H, SUS310H, S31009, 1.4845 0.04%~0.10% ≤2.00% ≤0.030% 24.0%~26.0% C Si Mn PS ≤0.75% ≤0.045% 19.0%~22.0% 316LN AISI316LN, SUS316LN1, S31653, 1.4429 ≤0.03% ≤2.00% ≤0.030% 0.10%~0.60% 16.0%~18.0% Mo N Fe C Si Mn P **≤0.75%** ≤0.045% 10.0%~14.0% 2.0%~3.0% Remainder 316H AISI316H, SUS316H, S31609, 1.4436 0.04%~0.10% ≤2.00% ≤0.030% 16.0%~18.0% Remainder C Si Mn PS **≤0.75%** ≤0.045% 10.0%~14.0% 2.0%~3.0% 321H AISI321H, SUS321H, S32109, 1.4541 0.04%~0.10% ≤2.00% ≤0.030% 17.0%~19.0% Remainder C Si Mn PS Ni Fe **≤0.75%** ≤0.045% 9.0%~12.0% 347H AISI347H, SUS347H, S34709, 1.4912 0.04%~0.10% ≤2.00% ≤0.030% 17.0%~19.0% Remainder C Si Mn PS Nb Fe **≤0.75%** ≤0.045% 9.0%~13.0% 8xC%~1.00% S32760 F55, 1.4501 ≤0.03% ≤1.00% ≤0.010% 0.50%~1.00% 0.20%~0.30% 24.0%~26.0% C Si Mn PS Mo Cu W N **≤1.00%** ≤0.030% 6.0%~8.0% 3.0%~4.0% 0.50%~1.00% Remainder

#### Main Grades of Stainless Steel Bar & Rod



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#### Main Grades of Stainless Steel Bar & Rod

430		AISI430, SUS430, S43000, 1.4016
≤0.12% ≤1.00% ≤0.030%	16.0%~18.0%	
C Si Mn PS Ni	Cr	Fe
≤1.00% ≤0.040% ≤0.75	5%	Remainder
434		AISI434, SUS434, S43400, 1.4113
≤0.12% ≤1.00% ≤0.030%		0.75%~1.25%
C Si Mn PS	Cr	Mo Fe
≤1.00% ≤0.040%	16.0%~18.0%	Remainder
436		AISI436, SUS436, S43600, 1.4536
≤0.12% ≤1.00% ≤0.030%		0.75%~1.25% Remainder
C Si Mn PS	Cr	Mo Nb Fe
≤1.00% ≤0.040%	16.0%~18.0%	5*C%~0.8%
439		AISI439, SUS430LX, S43035, 1.4510
≤0.03% ≤1.00% ≤0.030%	17.0%~19.0%	Remainder
C Si Mn PS Ni	Cr	N Fe
≤1.00% ≤0.040% ≤0.50°	%	≤0.030%
444		AISI444, SUS444, S44400, 1.4521
≤0.25% ≤1.00% ≤0.030%	17.5%~19.5	5% Ti+Nb: [0.20+4x(C%+N%)]~0.80% Remainder
C Si Mn PS Ni	Cr	Mo Ti Nb N Fe
≤1.00% ≤0.040% ≤1.00°	%	1.75%~2.50% ≤0.030%

# DAXUN





# **Specifications**

• Dimension:

Thickness: 0.5mm - 200mm Width: 1.5mm - 250mm

 Delivery State: Cold Drawn, Hot Rolled, Flat Bar Cut from Strip or Plates, Grinding, Forged, Centerless Grinding

• Finish: Pickled ,Bright, Polishing, Mirror, Hairline

- · Hot-selling Products:
- a. Stainless Steel Hot Rolled Flat Bar
- b. Stainless Steel Pickeld Flat Bar
- c. Stainless Steel Cold Drawn Flat Bar
- d. Stainless Steel Polished Flat Bar

#### Introduction

Stainless steel flat bars are rectangular with blunt edges (or rounded edges). Depending on their intended usage, they might be classified as semi-finished or finished. They are classified as cold-drawn stainless steel flat bars or hot-rolled stainless steel thick bars based on the processing technology used. Polishing and sandblasting are two types of surface treatments. When placing an order, please specify the size, surface treatment, quantity, annealing, solution treatment, and any other technical requirements. Stainless steel flat bars are commonly used in the construction of beams, bridges, gearbox towers, lifting and transportation machinery, shipyards, industrial furnaces, reaction towers, containers and warehouse shelves, fences, gearbox ships, vehicles and other structural and engineering elements.

# **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.

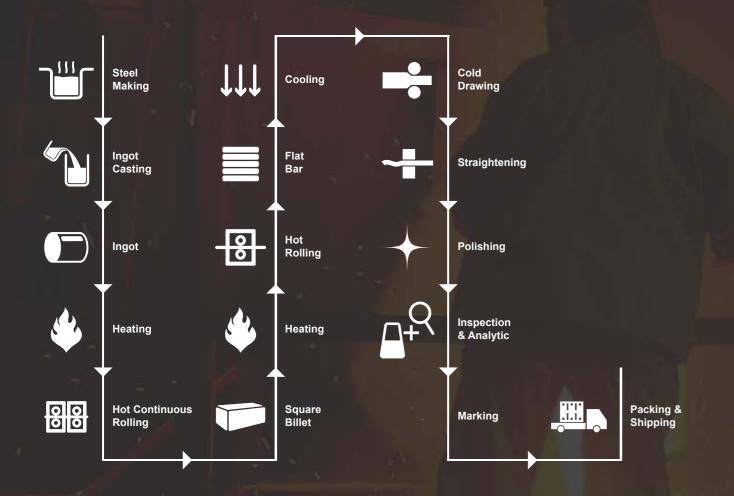
# **Features**

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.

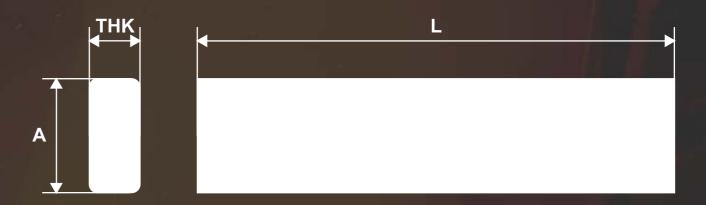
# **Standards**

ASTM A276, ASTM A484M, DIN174, EN 10278

# **Manufacturing Process**



# **Drawing & Formula**



# Formula:

m = A (mm) × THK (mm) × L (m) × 0.00793

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

A = Side width, THK = Thickness, L = Length

# **Tolerance**

### **Tolerance for Hot Rolled Flat Bars**

Size	Tolerance Rank				
Size	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 Flat Bars**

Sizo	Tolerance Rank		
Size	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 Flat Bars**

Size	Tolerance Rank					
Size	H8	Н9	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			
Het Delled	Pickled		
Hot Rolled	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.



# **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.

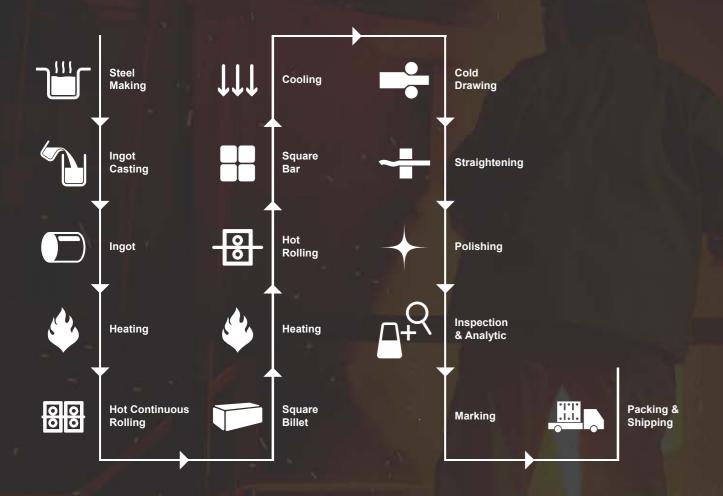
#### Introduction

Stainless steel square bar is a long strip of stainless steel that has a square cross section. Daxun produces SS square bars in cold drawn , hot rolled, and hot forged conditions based on your specifications. The main ASTM standards we use for stainless steel square bar manufacture are A276, A479, A182, and A484. We provide both cold drawn and hot rolled stainless steel square bars in sizes ranging from 50×50mm to 80×80mm. For sizes 8080mm and above, we shall offer hot rolled/ forged stainless steel square bar. We may provide several sizes and grades to match your specific requirements. Customisation is allowed in both size and grade, with a minimum order quantity of more than one tonne. Our stainless steel square bars are ideal for producing machined parts or serving as connections.

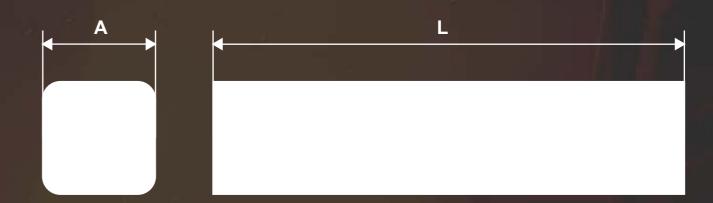
#### **Features**

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:

 $m = A (mm) \times A (mm) \times L (m) \times 0.00793$ \* 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**

0:	Tolerance Rank				
Size	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**

Sizo	Tolerand	e Rank
Size	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**

8:-0	Tolerance Rank					
Size	Н8	Н9	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.



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