



PETROCHEMICAL STAINLESS STEEL

PROFESSIONAL PROVIDER OF STAINLESS STEEL FOR
PETROCHEMICAL APPLICATIONS

Quality
Safety
品质 安全

CHANGSHA XIANGJIA METAL MATERIAL CO., LTD.

HEAD QUARTERS:
9F,11F,16F,18F,MINGCHENG INTL BLDG,CHANGSHA CITY,CHINA

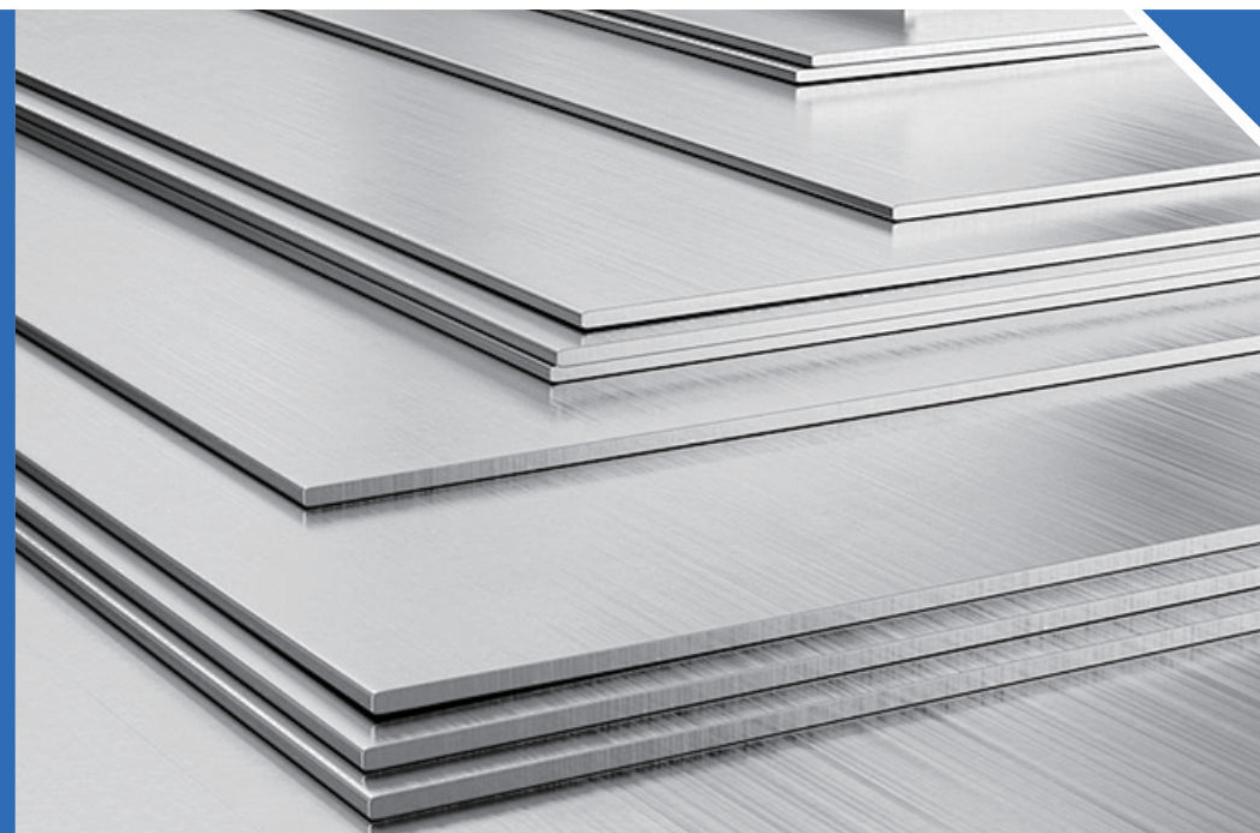
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PRODUCTION BASE #2: JINGHAI, TIANJING CITY,CHINA



REV.001 09/2025

CHANGSHA XIANGJIA METAL MATERIAL CO.,LTD.





ABOUT US

Petrochemical Stainless Steel Division

The Petrochemical Stainless Steel Division is one of the core business units of Changsha Xiangjia Metal Materials Co., Ltd. As a professional provider of stainless steel for petrochemical applications , the division operates its own production base with an annual capacity exceeding 200,000 tons.

We specialize in manufacturing a wide range of grades and specifications of stainless steel products, including angle steel, flat steel, round steel, square steel, hexagonal steel, and channel steel. All products are certified under TUV CERTIFICASTE and ISO 9001:2015 systems, making them suitable for diverse industrial applications.

Leveraging advanced production technologies and a stringent quality control system, we ensure exceptional consistency and superior quality across all products. Each item undergoes multiple stages of quality inspection, reflecting our commitment to delivering world-class stainless steel materials.

Currently, our products are exported to over 120 countries and regions across six continents. We have established branch offices in the UAE, Egypt, Indonesia, Singapore, South Korea, and other locations. With a workforce of 400 employees, including 68 technical professionals and 18 senior engineers, we provide continuous professional technical support and service guarantees to our global clients.

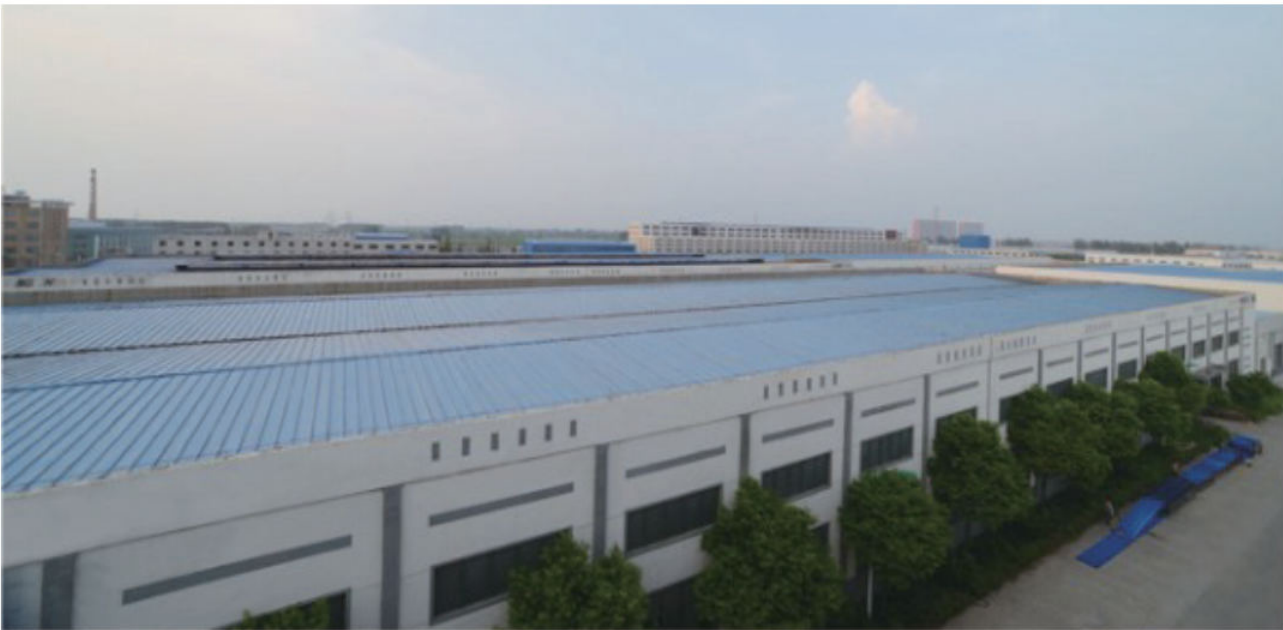


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FACTORY DISPLAY

LEADING QUALITY AND SERVICE FIRST



QUALITY
FIRST
SERVICE FIRST



BASED ON FIRST-CLASS ENVIRONMENT BUILD TOP BRAND

EXCELLENT EQUIPMENT SCIENCE SPECIALITY

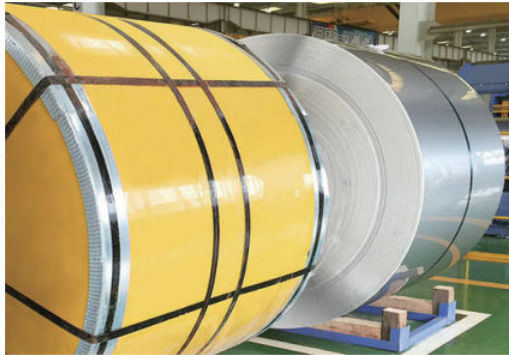
PROFESSIONAL SERVICE SHOW THE PRODUCT PERFECT CONDITION



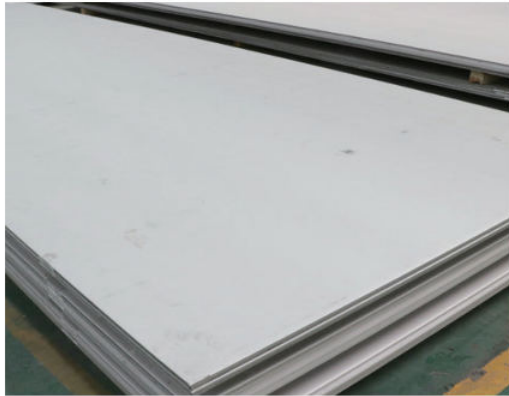


STAINLESS STEEL SHEET, PLATE/ COIL

Stainless Steel Cold Rolled Sheet & Coil	
Thickness	0.3mm-6.0mm
Standard Width	1000mm/1219mm/1500mm
Standard Length For Plate	2000mm/2439mm/3000mm or as per client's request
Surface Finish	NO.1, HL, NO.4, 8K
Grade	304, 304L, 304J1, 321, 316L, 316T1, 317L, 347H, 310S, 309S, 904L, 2205
Standard	ASTM, JIS, SUS, GB, DIN



Stainless Steel Hot Rolled Plate & Coil	
Thickness	3.0mm-200mm
Standard Width	1240mm/1500mm/1800mm/2000mm/2200mm
Standard Length For Plate	2438mm/6000mm or as per client's request
Surface Finish	NO.1, HL, NO.4, 8K
Grade	304, 304L, 304J1, 321, 316L, 316T1, 317L, 347H, 310S, 309S, 904L, 2205
Standard	ASTM, JIS, SUS, GB, DIN

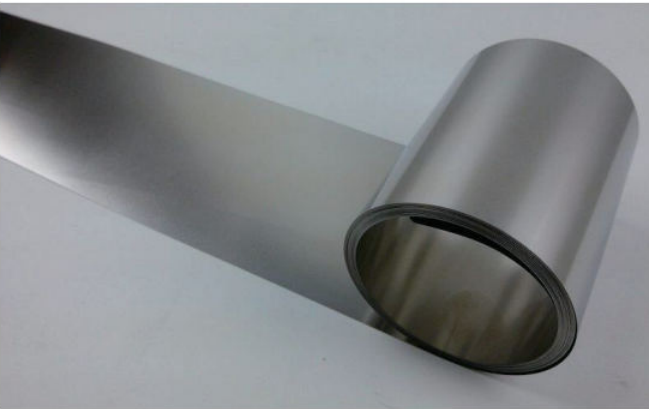


STAINLESS STEEL COLD ROLLED SHEETS

Decoiling Processing(three production lines)			
Types	Large Decoiler Machine	Small Shear Machine	Large Shear Machine
Processing Type	Steel Roll Shearing Ling	Steel Roll Shearing Ling	Cold-rolled plate cutting
Width Range	1m-1.5m	130-1000	0.3-3.0mm (Standard)
Thickness Range	0.5-3.0	0.3-2.0	400-1500mm
Processing Length	250-6000mm	240-3000mm	400-6500mm
Precision	<2mm	<1mm (Diagonal Line)	Upper pad of paper, Double-sided foil (Diagonal Line)



Decoiling Processing(three production lines)			
Types	750 Slitter	650 Slitter	450 Slitter
Processing Type	Slitting Ling	Slitting Ling	Slitting Ling
Width Range	<700mm	<600mm	<400mm
Thickness Range	0.05-0.5	0.3-2.0	1.0-5.0
Precision Width of the Slitter	0.1	0.1	0.2
the Narrowest Width ofFinished Products	6mm	10mm	10mm



Large Slitting (three production lines)	
1650 Slitting Machine	
Processing Type	Slitting Line
Width Range	25-1600
Thickness Range	0.25-3.0mm



Whole Coil Oil Grinding	
Processing Type	Surface Processing
Lines	No. 4/HL
Width Range	4 feet/1m/within 1250
Thickness Range	0.28-2.00mm
Application	Household electrical appliances/ Architectural decoration



Wire Drawing Machine	
Processing Type	Straight Wire-Cold-rolling
Width Range	1000-1050/1219-1250/1500-1550mm
Thickness Range	0.5-3.0mm(Standard),up to 6.0mm
Length Range	600-400mm



Edge Polishing Machine	
Processing Type	Deburring
Width Range	10-50
Thickness Range	0.2-1.5
Outside diameter	<850
Application	Stainless Steel Cable Tie



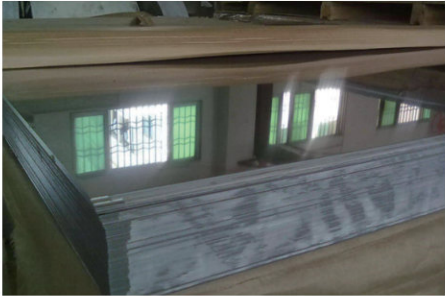
Wild Grain Machine (sleave)	
Processing Type	Plate sleave- cold rolling
Width Range	1000-1050/1219-1250/1500-1550 mm
Thickness Range	0.5-3.0mm (standard)
Length Range	1700-4000mm



Anti-Fingerprint Machine	
Processing Type	Cold rolled flat surface anti-fingerprint
Width Range	1000-1225mm
Thickness Range	0.3-2.0mm (standard)
Length Range	1500-4000mm



Mirror Surface Processing		
Processing Type	Cold rolled surface mirror for plate	Cold rolled surface mirror for coil
Width Range	1000-1500mm	800-1250mm
Thickness Range	0.4-5.0mm (standard)	0.3-2.0
Length Range	1500-4000mm	

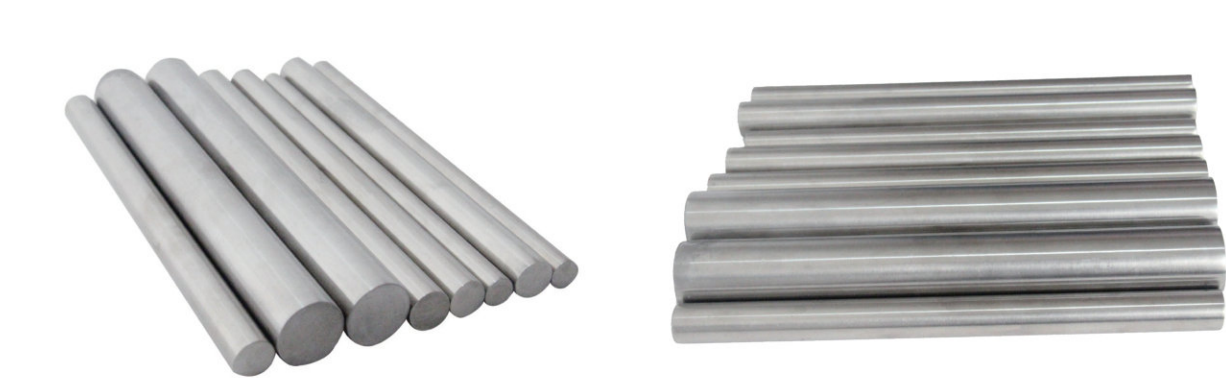


STAINLESS STEEL PROFILES

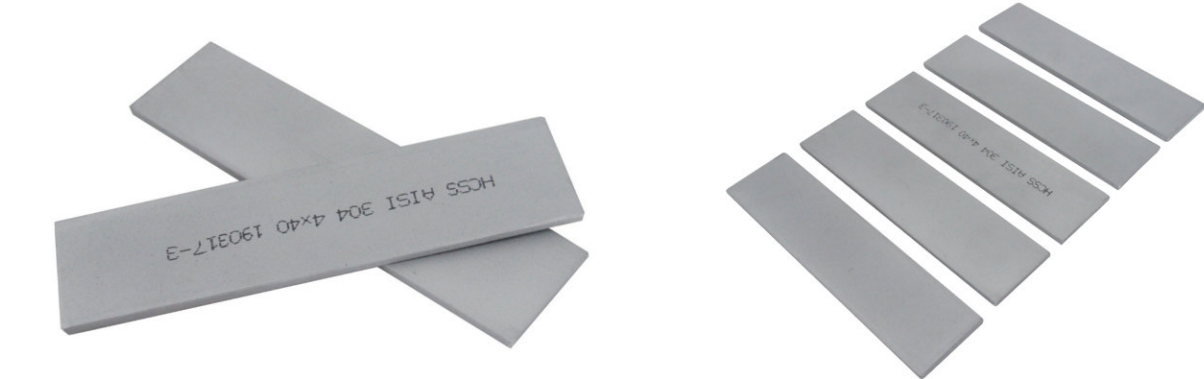
ANGLE BAR	
Item number	HCADTO SS AB0001001A
Material	#201 #304 #316
Technical	HRAP
Surface	No. 1 finished
Size	20 x 20 x 3 - 100 x 100 x 12mm
Standard	ASTM A276/ A484/ EN10056/ DIN 1028



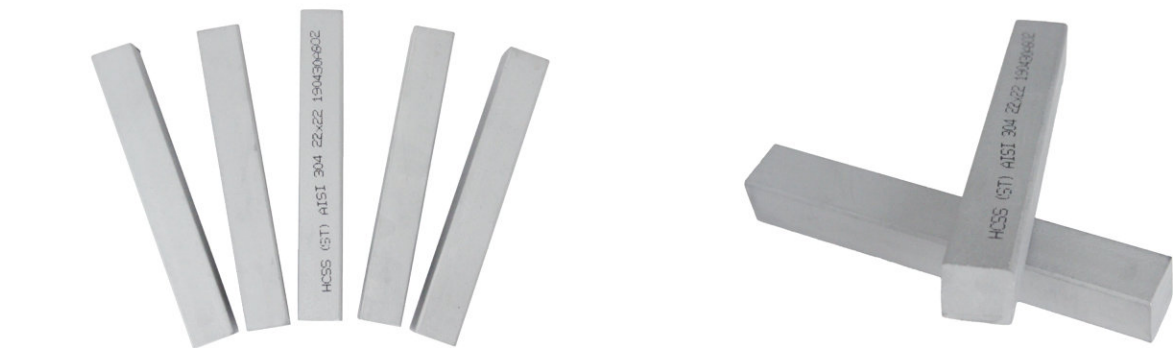
ROUND BAR	
Item number	HCADTO SS RB0004001A
Material	#201 #304 #316
Technical	CD
Surface	Bright finished
Size	3-100mm
Standard	ASTM A276/ A484/ EN10278/ DIN 671



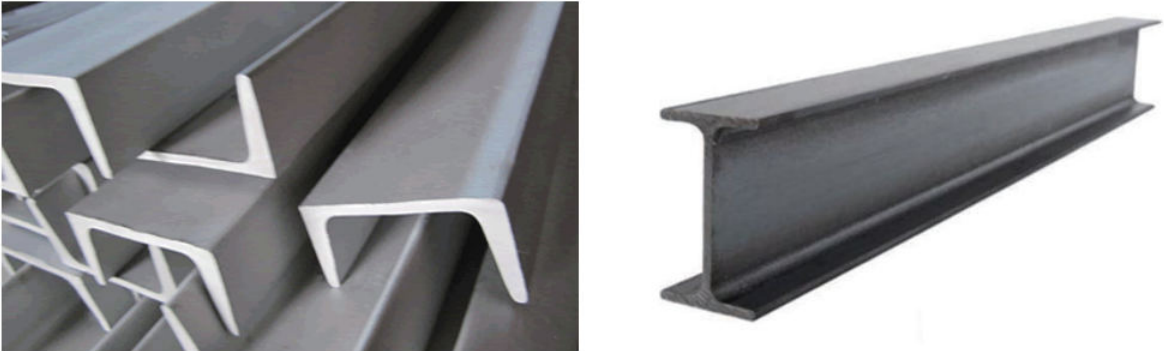
FLAT BAR	
Item number	HCADTO SSFB002001A
Material	#201 #304 #316
Technical	CD or HRAP
Surface	HL or No. 1 finished
Size	3 x 20 - 25 x 120mm
Standard	ASTM A276/ A484/ EN10278/ DIN 174



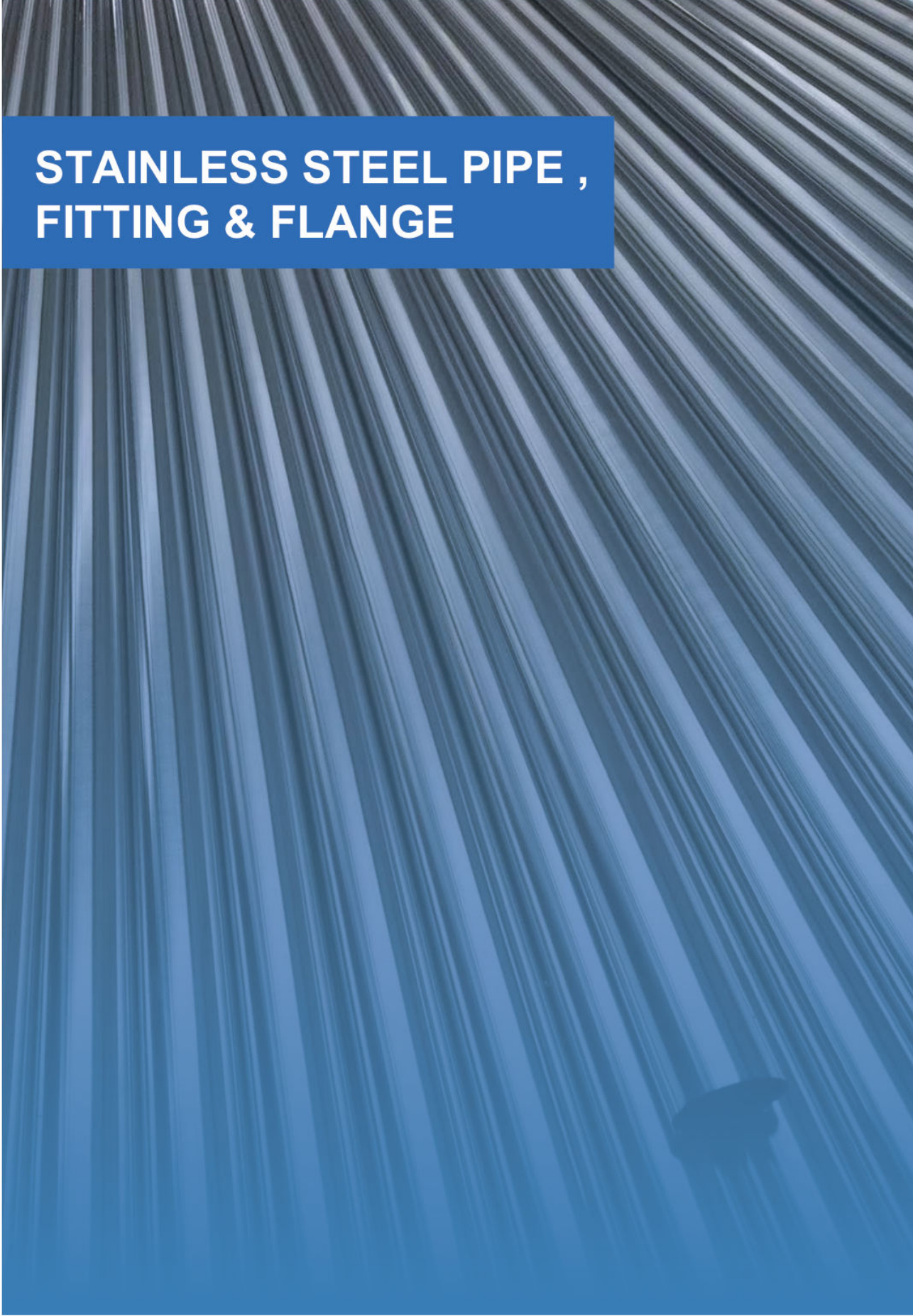
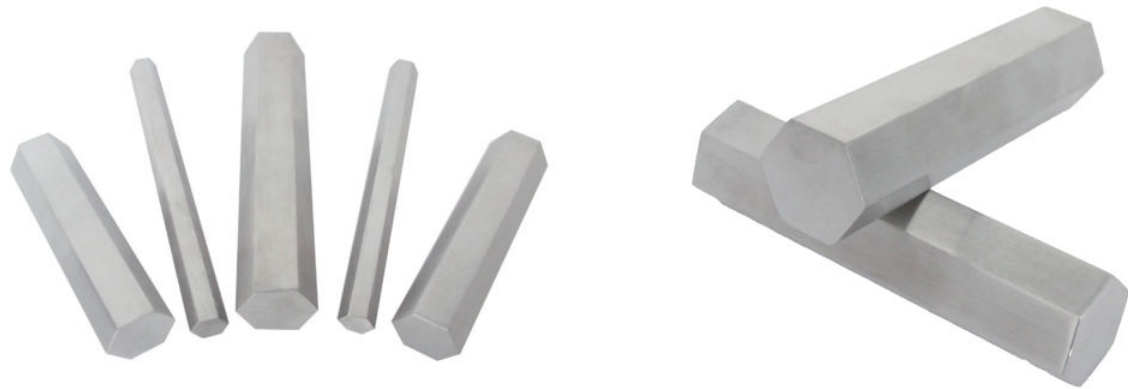
SQUARE BAR	
Item number	HCADTO SS SB0003001A
Material	#201 #304 #316
Technical	CD or HRAP
Surface	HL or No. 1 finished
Size	5 x 5 - 60 x 60mm
Standard	ASTM A276/ A484/ EN10278/ DIN 178



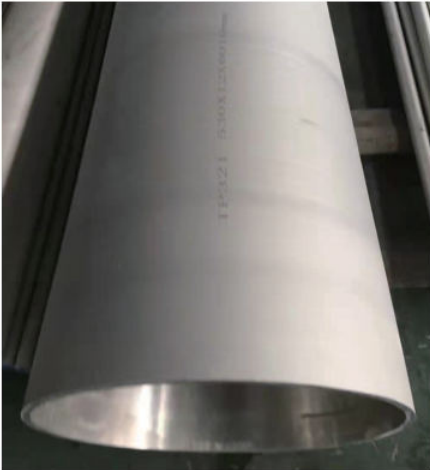
CHANNEL BAR	
Item number	HCADTO SS CB0005001A
Material	#201 #304 #316
Technical	HRAP
Surface	No. 1 finished
Size	50 x 25 x 3 - 200 x 100 x 10 mm
Standard	ASTM A276/ GB707-88



HEXAGONAL BAR	
Item number	HCADTO SS HB0006001A
Material	#201 #304 #316
Technical	CD
Surface	HL finished
Size	8-60 mm
Standard	ASTM A276/ A484M/ EN 10278/ DIN 176



Stainless Steel Seamless Pipe	
Production Range of SMLS Pipes:	Out Diameter : 9mm - 914mm Wall Thickness : 1mm - 90mm
Materials Grade of SMLS Pipes:	Austenitic Stainless Steel : TP304/L, TP316/L, TP304H, TP316Ti, TP317/L, TP321, TP321H, TP347H, TP904L, TP310H, TP310S Duplex Stainless Steel : S31803, S32205, S32750
Inspections:	PMI/Spectral Analysis test Visual check Mechanical check Non-destruction test



OUTSIDE DIAMETER		WALL THICKNESS								
NB(inch)	ASME(mm)	SCH10	SCH30	SCH40	SCH60	SCH80	SCH100	SCH120	SCH140	SCH160
1/2	21.3	2.11	2.41	2.77		3.73				4.78
3/4	26.7	2.11	2.41	2.87		3.91				5.56
1	33.4	2.77	2.9	3.38		4.55				6.35
1.1/4	42.2	2.77	2.97	3.56		4.85				6.35
1.1/2	48.3	2.77	3.18	3.68		5.08				7.14
2	60.3	2.77	3.18	3.91		5.54				8.74
2.1/2	73	3.05	4.78	5.16		7.01				9.53
3	88.9	3.05	4.78	5.49		7.62				11.13
3.1/2	101.6	3.05	4.78	5.74		8.08				
4	114.3	3.05	4.78	6.02		8.56		11.13		13.49
5	141.3	3.4		6.55		9.53		12.7		15.88
6	168.3	3.4		7.11		10.97		14.27		18.26
8	219.1	3.76	7.04	8.18	10.31	12.7	15.09	18.26	20.62	23.01
10	273	4.19	7.8	9.27	12.7	15.09	18.26	21.44	25.4	28.58
12	323.8	4.57	8.38	10.31	14.27	17.48	21.44	25.4	28.58	33.32
14	355.6	6.35	9.53	11.13	15.09	19.05	23.83	27.79	31.75	35.71
16	406.4	6.35	9.53	12.7	16.66	21.44	26.19	30.96	36.53	40.19
18	457.2	6.35	11.13	14.27	19.05	23.83	39.36	34.93	39.67	45.24
20	508	6.35	12.7	15.09	20.62	26.19	32.54	38.1	44.45	50.01
22	558.8	6.35	12.7		22.23	28.58	34.93	41.28	47.63	53.98
24	609.6	6.35	14.27	17.48	24.61	30.96	38.89	46.02	52.37	59.54
26	660.4	7.92								
28	711.2	7.92	15.88							
30	762	7.92	15.88							

Stainless Steel Welded Pipe & Tube	
Production Range of Welded Pipe & Tube:	Out Diameter : 6mm - 3000mm Wall Thickness : 1mm - 100mm
Materials Grade of Welded Pipe & Tube:	Austenitic Stainless Steel : TP304/304L, TP304, TP304L, TP304H, TP304N, TP304LN, TP302, TP3095, TP3105, TP310H, TP310HCbN, TP316/316L, TP316, TP316L, TP316H, TP316N, TP316Ti, TP316LN, TP317, TP317L, TP321, TP321H, TP347, TP347H, TP347HFG, N08904(904L), 530432, 531254, N08367, 530815.etc Duplex Stainless Steel : 531803, 532205, 532750, 532760, 532707, 532906.etc Nickel Alloy : N08800, N08810(800H), N08825, N06625, N06600, N04400.etc
Inspections	PMI/Spectral Analysis test Visual check Mechanical check Non-destruction test

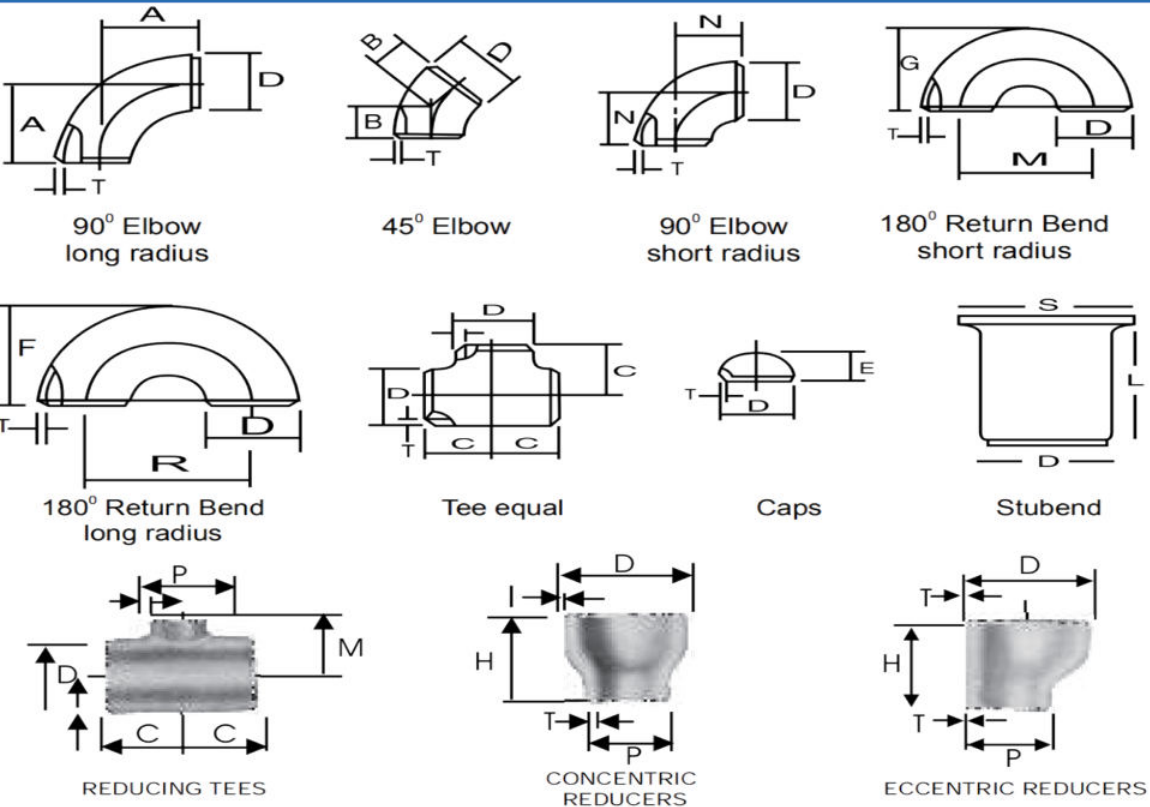


Stainless Steel Composition and Major Characteristics					
Type	Cr	Ni	Cmax	Other Elements	Major Characteristics
304	18.00-20.00	8.00-10.00	0.08	—	Low carbon variation of Type 302. Minimizes carbide precipitation during welding
304L	18.00-20.00	8.00-10.00	0.03	—	Extra-low carbon content eliminates harmful carbide precipitation due to welding
309	22.00-24.00	12.00-15.00	0.2	—	High strength and resistance to scaling at high temperatures
310	24.00-26.00	19.00-22.00	0.2	—	Higher alloy content improves basic characteristics of Type 309
316	16.00-18.00	10.00-14.00	0.08	Mo 2.00-3.00	Mo improves general corrosion and pitting resistance and high temperature strength over that of Type 302
316L	16.00-18.00	10.00-14.00	0.2	Mo 2.00-3.00	Extra-low carbon version of Type 316. Eliminates harmful carbide precipitation due to welding
317	18.00-20.00	11.00-15.00	0.08	Mo 3.00-4.00	Higher alloy content improves basic advantages of Type 316
321	17.00-19.00	9.00-12.00	0.08	Ti 5 x C. min	Stabilized to permit use in 800-1500°F temperature range without harmful carbide precipitation
347	17.00-19.00	9.00-13.00	0.008	Cb + Ta 10 x C. min	Characteristics similar to Type 321. Stabilized by Cb and Ta.
410	11.50-13.50	—	0.15	—	Lowest cost general purpose stainless steel. Wide use where corrosion is not severe.
420	12.00-14.00	—	0.15 min	—	Similar variation of Type 410 but higher carbon produces higher strength and hardness.
430	14.00-18.00	—	0.12	—	Most popular of the chromium types. Combines good corrosion and heat resistance and mechanical properties.

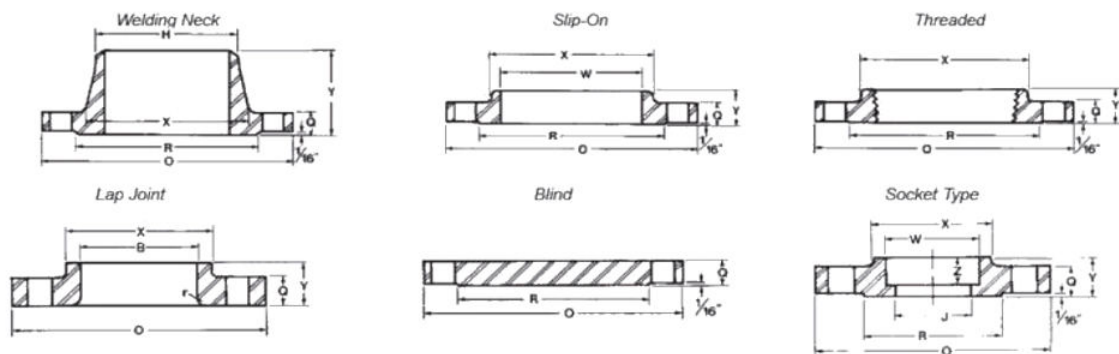
Stainless Steel Fittings & Flange	
Production Range of SS Fittings:	SMLS DN≤600 mm Welded DN≤1600 mm
Production Range of SS Flanges:	DN≤1600 mm
Materials Grade of SS Fittings:	Austenitic Stainless Steel : TP304/L, TP316/L, TP304H, TP316Ti, TP317/L, TP321, TP321H, TP347H, TP904L, TP310H, TP310S Duplex Stainless Steel : S31803, S32205, S32750



ANSI B 16.9 / B 16.28 / MSS SP -43 BUTT WELD FITTING



STAINLESS STEEL SO/SORF/BL/BLRF/PLRF/WNRF/WN FLANGES



CASE 1

ADELAIDE INTERNATIONAL AIRPORT

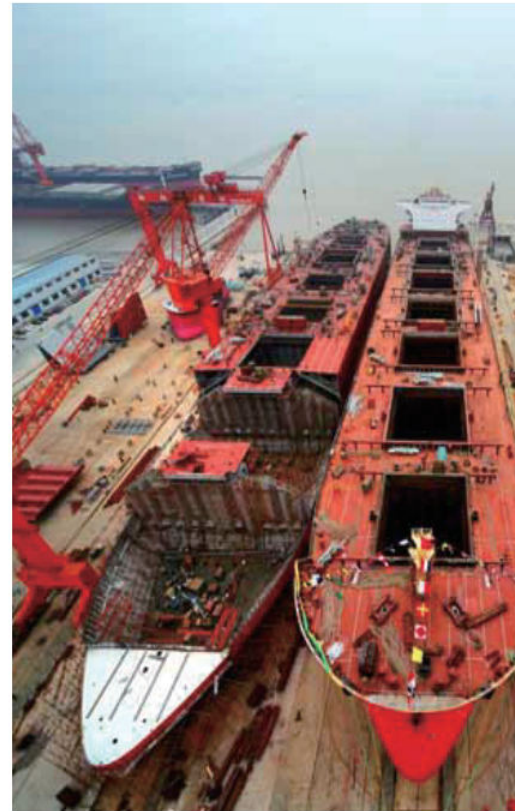
Sentosa Island is known as the most fascinating Singapore holiday island. It covers an area of 390 hectares and has a variety of entertainment facilities and leisure activities. It is known as the “Gambling Gems”. ADTO provides renovation engineering services for Sentosa, and uses our professional technology and products to protect the safety of tourists.



CASE 2

KOREAN SHIPYARD

Although South Korea is not big, its economy is very developed and it is one of the most developed countries in shipbuilding industry in the world. HC·ADTO cooperate with the Korean shipyard to provide the most advanced ships for the world.



KOREAN
SHIPYARD

CASE 3

SINGAPORE SENTOSA RENOVATION PROJECT

Sentosa Island is known as the most fascinating Singapore holiday island. It covers an area of 390 hectares and has a variety of entertainment facilities and leisure activities. It is known as the “Gambling Gems”. HC·ADTO provides renovation engineering services for Sentosa, and uses our professional technology and products to protect the safety of tourists.

