A M A S P R O

AMERICA & ASIA PRODUCTS INC.

STAINLESS STEEL FLAT PRODUCTS

STAINLESS STEEL

HOT ROLLED COIL
COLD ROLLED COIL
STRIP
PLATE
CHECKER PLATE
SHEET
PRE-PAINTED

www.Amaspro.com

OUR VISION &VALUE

To be a leading international steel enterprise by creating diversified products, attracting elite people, and maximizing our strength, we will continue to create the best values for the clients with the specialized team, the most professional channel, information technology, management, and exceptional customer service.

3 COREVALUES

ILASA strives to deliver unparalleled value and cutting-edge solutions to our clients.
We are guided and motivated by the following 3 core values.

Integrity

We are reliable because we know the market, we are honest, truthful and we will meet our promise to our clients. Our clients' success becomes our success. We provide our clients with the best value products in an effort to grow their reputation within their industry.

Profession

Our specialized team is dedicated to high quality of our services and excellence in our work. Yieh Corp. prides itself on the professional relationship we develop with all clients.

Efficiency

We are committed to delivering a total solution of steel products, steel processing, logistics and technical services to fulfill our client's requirements in the most efficient and cost-effective manner.

Whenever you need us, we'll be there.

MANUFACTURING PROCESS

RAW MATERIALS

Alloy

Scrap

IRON MAKING

Electric Arc Furnace

Converter

Vacuum Oxygen Decarburization

STEEL MAKING

Slab Continuous Caster

Stainless Steel Slab

Slab Grinding Machine

Billet Continuous Caster

Stainless Steel Billet

ROLLING

Reheating Furnace

Hot Rolling Mill

Hot Rolled Stainless Steel Plate

Hot Rolled Stainless Steel Coil

Batch Annealing Furnace

H.R. Annealing & Pickling Line

NO.1 Hot Rolled Coil

Coil Preparation Line

20-High Cold Rolling Mill

Grinding & Polishing Line

Skin Pass Tension Line

2B Cold Rolled Coil

Cutting

Sheet

C.R. Annealing & Pickling Line

2D Cold Rolled Coil

BA Cold Rolled Coil

Polishing & Cutting

No.4/ No.8/ HL...

Bright Annealing Line

Skin Pass Mill

Tension Levelling Line

Grinding & Polishing Line

NO.3/ NO.4/ HL Cold Rolled Coil

Slitting

Strip

PRODUCT NAME

STAINLESS STEEL



Hot Rolled Coil



Plate



Cold Rolled Coil



Checker Plate



Strip



Sheet



Pre-Painted Stainless Steel Coil/ Sheet

PRODUCT SPECIFICATION

Stainless Steel (For Reference)

ASTM / ASME	AISI	JIS	DIN	CNS
S20100	201	-	1.4372	201
S20200	202	-	1.4373	202
S20400	-	-	-	-
S30100	301	SUS301	1.4310	301
S30400	304	SUS304	1.4301	304
S30403	304L	-	1.4307	304L1
-	-	SUS304L	-	304L2
S30409	304H	-	-	-
S31600	316	SUS316	1.4401	316
S31603	316L	-	1.4404	316L1
-	-	SUS316L	-	316L2
S32100	321	SUS321	1.4541	321
S40910	-	SUH409L	1.4512	SUH409L
S41003	-	SUS410L	-	410L
S41008	410S	SUS410S	-	410S
-	-	SUS420J1	1.4021	420J1
-	-	SUS420J2	1.4028	420J2
S43000	430	SUS430	1.4016	430
S43600	436	SUS436L	1.4513	436L
-	-	SUS443J1	-	443J1
S44400	444	SUS444	1.4521	444

Other specifications are also available up to request

CHEMICAL COMPOSITION

JIS Specification (For Reference)

SPEC.

JIS
G4304
G4305
G4312

STEEL GRADE	C% MAX.	Si% MAX.	Mn% MAX.	P% MAX.	S% MAX.	Cr% MAX.	Ni% MAX.	Mo% MAX.	Ti% MAX.	OTHER
SUS201	0.15	1.0	5.5-7.5	0.060	0.030	16.0-18.0	3.5-5.5	-	-	N: 0.25
SUS202	0.15	1.0	7.5-10.0	0.060	0.030	17.0-19.0	4.0-6.0	-	-	N: 0.25
SUS301	0.15	1.0	2.0	0.045	0.030	16.0-18.0	6.0-8.0	-	-	-
SUS301L	0.03	1.0	2.0	0.045	0.030	16.0-18.0	6.0-8.0	-	-	N: 0.20 Max.
SUS304	0.08	1.0	2.0	0.045	0.030	18.0-20.0	8.0-10.5	-	-	-
SUS304L	0.03	1.0	2.0	0.045	0.030	18.0-20.0	9.0-13.0	-	-	-
SUS310S	0.08	1.5	2.0	0.045	0.030	24.0-26.0	19.0-22.0	-	-	-
SUS316L	0.03	1.0	2.0	0.045	0.030	16.0-18.0	12.0-15.0	2.0-3.0	-	-
SUS321	0.08	1.0	2.0	0.045	0.030	17.0-19.0	9.0-13.0	-	5xC Min.	-
SUH409L	0.03	1.0	1.0	0.040	0.030	10.5-11.75	0.60	-	6xC-0.75	-
SUS410	0.15	1.0	1.0	0.040	0.030	11.5-13.5	0.60	-	-	-
SUS410S	0.08	1.0	1.0	0.040	0.030	11.5-13.5	0.60	-	-	-
SUS420J1	0.16-0.25	1.0	1.0	0.040	0.030	12.0-14.0	0.60	-	-	-
SUS420J2	0.26-0.40	1.0	1.0	0.040	0.030	12.0-14.0	0.60	-	-	-
SUS430	0.12	0.75	1.0	0.040	0.030	16.0-18.0	0.60	-	-	-
SUS436L	0.025	1.0	1.0	0.040	0.030	16.0-19.0	0.60	0.75-1.50	-	N: 0.025 Max. Nb+Ti=8(C+N)-0.80
SUS443J1	0.025	1.0	1.0	0.040	0.030	20.0-23.0	0.60	-	-	N: 0.025 Max. Cu: 0.30-0.80 Nb+Ti=8(C+N)-0.80
SUS444	0.025	1.0	1.0	0.040	0.030	17.0-20.0	0.60	-	-	Nb+Ti=8(C+N)-0.80

CHEMICAL COMPOSITION

ASTM Specification (For Reference)

SPEC.

ASTM A240

STEEL GRADE	C% MAX.	Si% MAX.	Mn% MAX.	P% MAX.	S% MAX.	Cr% MAX.	Ni% MAX.	Mo% MAX.	Ti% MAX.	OTHER
S20100	0.15	1.00	5.5-7.5	0.060	0.030	16.0-18.0	3.5-5.5	-	-	N: 0.25 Max.
S20200	0.15	1.00	7.5-10.0	0.060	0.030	17.0-19.0	4.0-6.0	-	-	N: 0.25 Max.
S30100	0.15	1.00	2.0	0.045	0.030	16.0-18.0	6.0-8.0	-	-	N: 0.10 Max.
S30400	0.07	0.75	2.0	0.045	0.030	17.5-19.5	8.0-10.5	-	-	N: 0.10 Max.
S30403	0.03	0.75	2.0	0.045	0.030	17.5-19.5	8.0-12.0	-	-	N: 0.10 Max.
S31008	0.08	1.50	2.0	0.045	0.030	24.0-26.0	19.0-22.0	-	-	-
S31603	0.03	0.75	2.0	0.045	0.030	16.0-18.0	10.0-14.0	2.0-3.0	-	N: 0.10 Max.
S32100	0.08	0.75	2.0	0.045	0.030	17.0-19.0	9.0-12.0	-	5(C+N)-0.70	N: 0.10 Max.
S40910	0.03	1.00	1.0	0.040	0.020	10.5-11.7	0.50	-	6(C+N)-0.50	N: 0.030 Max. Nb: 0.17 Max.
S40977	0.03	1.00	1.5	0.040	0.015	10.5-12.5	0.30-1.00	-	-	N: 0.030 Max.
S41000	0.08-0.15	1.00	1.0	0.040	0.030	11.5-13.5	0.75	-	-	-
S41003	0.030	1.00	1.5	0.040	0.030	10.5-12.5	1.50	-	-	N: 0.030 Max.
S43000	0.12	1.00	1.0	0.040	0.030	16.0-18.0	0.75	-	-	-
S43600	0.12	1.00	1.0	0.040	0.030	16.0-18.0	-	0.75-1.25	-	Nb: 5C-0.80
S43932	0.03	1.00	1.0	0.040	0.030	17.0-19.0	0.50	-	-	N: 0.03 Max. Al: 0.15 Max. Nb+Ti=[0.20+4(C+N)]-0.75
S43940	0.03	1.00	1.0	0.040	0.015	17.5-18.5	-	-	0.10-0.60	Nb: (0.30+3xC) Min.
S44100	0.03	1.00	1.0	0.040	0.030	17.5-19.5	1.00	-	0.10-0.50	Nb: (0.30+9xC)-0.90 N: 0.030 Max.
S44400	0.025	1.00	1.0	0.040	0.030	17.5-19.5	1.00	1.75-2.50	-	N: 0.035 Max. Nb+Ti=[0.20+4(C+N)]-0.80
S44500	0.020	1.00	1.0	0.040	0.012	19.0-21.0	0.60	-	-	Nb: 10(C+N)-0.80 Cu: 0.30-0.60 N: 0.03 Max.

MECHANICAL PROPERTY

JIS Specification (For Reference)

SPEC.

JIS
G4304
G4305
G4312

STEEL GRADE	N/mm² MIN. TENSILE STRESS	N/mm² MIN. PROOF STRESS	% MIN. ELONGATION	HRB MAX. HARDNESS	BENDABILITY	
					BENDING ANGLE	INSIDE RADIUS
SUS201	520	275	40	100	No Require	-
SUS202	520	275	40	95	No Require	-
SUS301	520	205	40	95	No Require	-
SUS304	520	205	40	90	No Require	-
SUS304L	480	175	40	90	No Require	-
SUS310S	520	205	40	90	No Require	-
SUS316L	480	175	40	90	No Require	-
SUS321	520	205	40	90	No Require	-
SUH409L	360	175	25	80	180°	0.5 t (t<8 mm), 1.0 t (t>8 mm)
SUS410	440	205	20	93	180°	1.0 time the thickness
SUS410L	360	195	22	88	180°	1.0 time the thickness
SUS410S	410	205	20	88	180°	1.0 time the thickness
SUS420J1	520	225	18	97	No Require	-
SUS420J2	540	225	18	99	No Require	-
SUS430	420	205	22	88	180°	1.0 time the thickness
SUS436L	410	245	20	96	180°	1.0 time the thickness
SUS443J1	390	205	22	90	180°	1.0 time the thickness
SUS444	410	245	20	96	180°	1.0 time the thickness
SUS430J1L	390	205	22	90	180°	1.0 time the thickness

MECHANICAL PROPERTY

ASTM Specification (For Reference)

SPEC.

ASTM A240

STEEL GRADE	N/mm² MIN. TENSILE STRESS	N/mm² MIN. PROOF STRESS	%MIN. ELONGATION	HRB MAX. HARDNESS	HBW MAX. HARDNESS	BENDABILITY	
						BENDING ANGLE	INSIDE RADIUS
S20100	515	260	40	95	217	No Require	-
S20200	620	260	40	-	241	No Require	-
S30100	515	205	40	95	217	No Require	-
S30400	515	205	40	92	201	No Require	-
S30403	485	170	40	92	201	No Require	-
S30409	515	205	40	92	201	No Require	-
S30500	485	170	40	88	183	No Require	-
S30908	515	205	40	95	217	No Require	-
S31008	515	205	40	95	217	No Require	-
S31603	485	170	40	95	217	No Require	-
S32100	515	205	40	95	217	No Require	-
S32101 t≦ 5.0 mm	700	530	30	31HRC	290	No Require	-
S32101 t>5.0 mm	650	450	30	31HRC	290	No Require	-
S40910	380	170	20	88	179	180°	-
S40977	450	280	18	88	180	No Require	-
S41000	450	205	20	96	217	180°	-
S41003	455	275	18	20HRC	223	No Require	-
S43000	450	205	22	89	183	180°	-
S43600	450	240	22	89	-	180°	-
S43932	415	205	22	89	183	180°	-
S43940	430	250	18	88	180	No Require	-
S44100	414	241	20	90	190	No Require	-
S44400	415	275	20	96	217	180°	-
S44500	427	205	22	83	-	180°	-

AVAILABLE SIZE

Stainless Steel / Standard Dimension

HOT ROLLED COIL		Width	610-2000 mm
		Thickness	2.5-10.0 mm
		Inner Diameter	610+0/-5 mm
COLD ROLLED COIL		Width	610-2000 mm
		Thickness	0.3-6.0 mm
		Inner Diameter	610 or 508+0/-5 mm
HOT ROLLED STRIP		Width	16.0-600 mm
		Thickness	2.5-10.0 mm
COLD ROLLED STRIP		Width	4.0-600 mm
		Thickness	0.1-3.0 mm
PLATE		Standard Width	914, 1219, 1524, 1800, 2000 mm
		Thickness	15-85 mm
		length	3048, 6069 mm, 10 M, 12 M
		Customized Width	20-2000 mm
		Thickness	3-8 mm
		length	Container Loading: Max. 10 M
		Bulk	As request
		Customized Width	30-2500 mm
		Thickness	8 up-60 mm
		length	Max. 12M
304 NO.1 CHECKER PLATE		Width	1219, 1250, 1500, 1524, 1800, 2000 mm, other width according to customer's request
		Thickness	3, 4, 5, 6, 8, 10 mm
		length	According to customer's request
304 2B CHECKER PLATE		Width	1219, 1250, 1500, 1524, 1800, 2000 mm, other width according to customer's request
		Thickness	Below 6 mm
		length	According to customer's request
SHEET		Width	600-2000 mm
		Thickness	0.1-3.0 mm
		length	As request
PRE-PAINTED STAINLESS STEEL COIL/ SHEET		Width	130-1524 mm
		Thickness	0.4-3.0 mm

SURFACE FINISH

Coil/ Strip

No.1, 2B, 2D, BA, No.4, No.5, No.8, HL, SB, Ti-coating, Embossed

Plate

No.1, Checker plate

Sheet

No.1, 2B, BA, No.4, No.5, No.8, HL, Etching, SB, Ti-coating, Embossed

Definition of Surface Finish

SURFACE FINISH	DEFINITION	APPLICATION
NO.1	After hot rolling, the surface is finished by heat treatment and pickling or other processes alike.	Chemical tank, pipe
2B	Those finished, after cold rolling by heat treatment, pickling or other equivalent treatment and lastly by cold rolling to give an appropriate luster.	Medical device, food industry, construction material, kitchen utensils
BA	The surface is processed by bright heat treatment after cold rolling.	Kitchen utensils, electric equipment, building construction
NO.4	Those finished by polishing with No.150 to No.180 abrasives specified in JIS R6001.	Kitchen utensils, building construction, medical device
NO.8 (MIRROR)	Using very fine abrasive polish and buff to produce a sheet with bright mirror-like surface.	Building architectural panel, elevator, interior decoration, window frames, curtain walls, kitchen furniture
ETCHING	The etched technique is utilized to create unique patterns or designs on metal surface. The depth of grooved surface can be made by machine depending on the different etching.	Building architectural panel, elevator, interior decoration
HL	Those finished by polishing so as to give continuous polishing streaks by using abrasive of suitable grain size.	Building construction
TI-COATING	The Ti-coating technique is a booming technology transferring from aerospace technology, and applies the principle of ion exchange to adhere titanium ions onto the material surface under vacuum and high temperature conditions.	Building decoration, artistry
CHECKER PLATE	Checker plate, also called diamond plate or tear plate, is a plate with a regular pattern of raised diamonds or lines on one side, with the reverse side being smooth.	Trailer beds, ramps, stair treads
EMBOSSED PATTERN	The embossed sheet offers a range of embossed patterns, processed by different tools. There are flat, round, semi-round and square indentations, diamonds or pyramids, plus many special forms.	Exhibition floor, restaurant wall

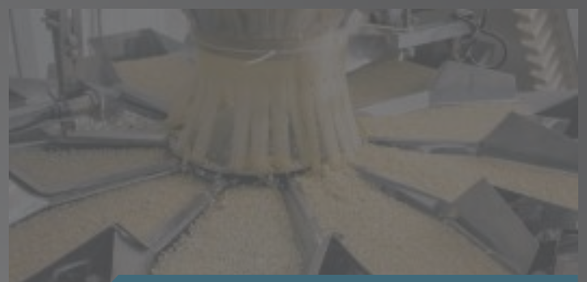
APPLICATION

OF STAINLESS STEEL

- HOT ROLLED COIL
- COLD ROLLED COIL
- STRIP
- PLATE
- CHECKER PLATE
- SHEET
- PRE-PAINTED



ART WORKS



FOOD PROCESSING INDUSTRIES

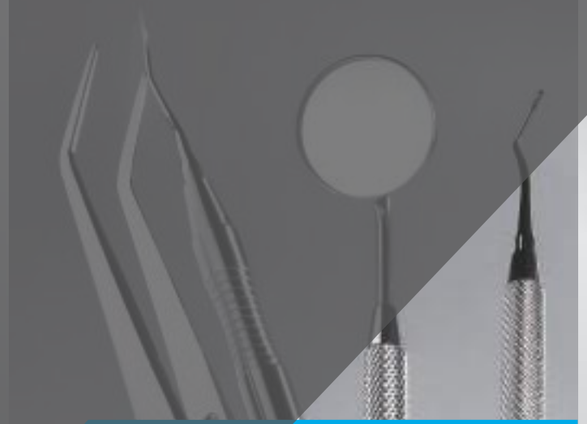


ELECTRONIC PRODUCTS

ARCHITECTURAL INDUSTRIES



TRANSPORTATION



MEDICAL DEVICE



CHEMICAL INDUSTRIES



HOUSEHOLD APPLIANCE

PACKAGING & LABELING | OF STAINLESS STEEL

AMASPRO INC., . values details of packaging with mill's standard or customer's request to avoid unexpected damage during delivery. Similarly, each product has its shipping mark on external packing for identification and inspec- tion more conveniently.

LABELING

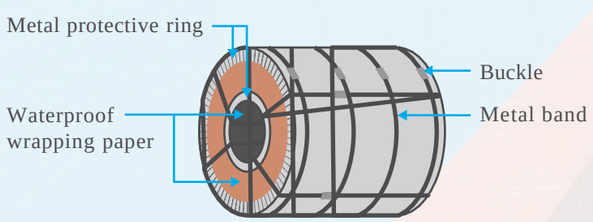






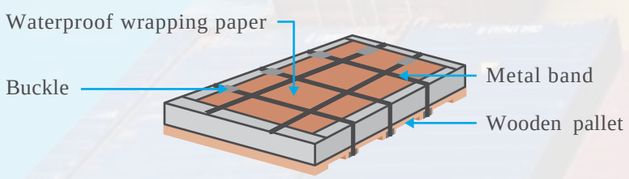
PACKING & MARKING

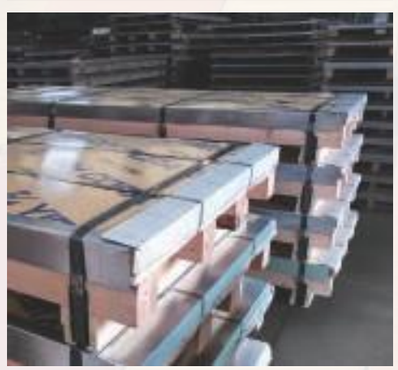
STRIP/ FOIL/ COIL





SHEET/ PLATE





ORDERING INFORMATION

Required Information in Firm Enquiry

ITEM	INFORMATION	EXAMPLE
01 PRODUCT NAME	Stainless Steel HRC/ CRC	Stainless Steel Cold Rolled Coils
02 STANDART SPECIFICATION STEEL GRADE	ASTM A240, S30400, JIS G4305, SUS304	JIS G4305, SUS304
03 SURFACE FINISH	No.1, 2B, BA, No.4, No.8 (Mirror), Etching, HL, Ti-coating	2B
04 DIMENSION	Thickness X Width X Length (Coil)	2.0 mm X 1219 mm X C
05 ORDER QUANTITY	Specific Quantity per each size	20 MT
06 INNER DIAMETER	508 mm, 610 mm, 760 mm	610 mm
07 SURFACE PROTECTION	Paper interleaved, PE film, Laser, PE film	Paper interleaved
08 EDGE TYPE	Mill Edge/ Slit Edge	Slit Edge
09 PACKING TYPE	Sheet Packing, Coiling Packing	Coiling Packing
10 APPLICATION	Car, Ship, Train, Construction, General Engineering	General Engineering
11 SPECIAL REQUIREMENT	Chemical Composition, Mechanical Properties, Dimensional Tolerance	Thickness tolerance on light side

A M A S P R O

AMERICA & ASIA PRODUCTS INC.

- Immediate processing of your requests
- Fast Dispatch
- Constant quality control of our products

ADRESS:

Villa Lucre, Calle Las Palmeras, Boulevard Las Colinas Panama, Republic of Panama

PEOPLE TO CONTACT

Marco Gonzalez	General Manager	sales@amaspro.com
Cesar Rodriguez	International Sales	sales1@amaspro.com
Martin Castillero	Logistic	sales3@amaspro.com
Elida Vega	Finance	contacl@amaspro.com
Dally Siles	Assistant	sales2@amaspro.com

Contact us Headquarters

·(507) 277-4083 ·(507) 277-4183

·(507) 277-4153 ·(507) 277-4253

·(507) 277-4283 ·(507) 392-3640 ·(507) 392-7271

Marketing Management in Costa Rica

People to Contact:

Marco Gonzalez	General Manager	amasprocr@gmail.com
Yorleny Leiton	International Sales	amasprocrl@gmail.com

Contact Offices Costa Rica

·(506) 2101-4485

·(506) 8674-2000 (cellular)

·(506) 8530-5252 (cellular)

Integrity · Profession · Efficiency