



Providing
optimal metal complete solutions
for various industries



ONE-STOP METAL SOLUTIONS

YUZE METAL LIMITED

STAINLESS STEEL / COPPER / ALUMINUM ALLOY / CARBON STEEL / GALVANIZED / COLOR COATED

CONTENTS



01 COMPANY PROFILE 02

02 CERTIFICATIONS & MTC/MTR 03

03 PARTNERSHIPS 04

04 LARGE DIAMETER Aluminum Pipe 5-6

05 PURE COPPER SERIES 9-10

06 BRASS ALLOY SERIES 11-12

07 BRONZE ALLOY SERIES 13-14

08 CUPRONICKEL SERIES 15-16

09 NICKEL-BASED ALLOY SERIES 17-18

10 TITANIUM ALLOY 19-20

11 SPECIAL ALLOY STEEL 21-22

12 GENERAL STEEL SOLUTIONS 23

13 STAINLESS STEEL SERIES 24-28

14 ALUMINUM ALLOY SERIES 29-32

15 CARBON STEEL SERIES 33-36

16 STEEL PROFILES & SECTIONS 37-40

17 GALVANIZED STEEL OVERVIEW 41-42

18 PREPAINTED MATERIALS 43-44

19 PRODUCTION FACILITIES & PROCESSING 45

20 STRICT PRE-SHIPMENT INSPECTION 45

21 PACKAGING & LOGISTICS 46



COMPANY PROFILE

YUZE METAL LIMITED

Yuze Metal Limited (hereinafter referred to as "Yuze Metal") established in 2012, is a leading manufacturer and global supplier of high-quality metal products. With over two decades of expertise, we deliver reliable solutions to meet the diverse needs of industries worldwide



PREMIUM PRODUCTS

Our wide range includes steel coils, sheets, and customized metal solutions for various applications.



QUALITY ASSURANCE

We are committed to international standards, ensuring consistent quality and performance.



CUSTOMER FOCUSED

We build long-term partnerships through responsive service and tailored solutions.



INNOVATION DRIVEN

Continuous improvement and innovation empower us to deliver greater value to our clients.



ESTABLISHED IN
2012



CERTIFIED QUALITY
ISO9001, RoHS, BV, SGS,
TÜV and CPR



MODERN FACILITIES
Advanced equipment,
strict quality control



GLOBAL REACH
Trusted by customers
in 50+ countries

STRENGTH. SCALE. SERVICE



INTERNATIONAL CERTIFICATIONS



ISO9001:2015

Quality Management System



CE

Conformité Européenne



ASTM

American Society for Testing and Materials



SGS

Société Générale de Surveillance S.A.



BV

Bureau Veritas



TÜV

Technischer Überwachungs-Verein

MATERIAL TEST REPORTS (MTC/MTR)

We provide 100% original Mill Test Certificates in accordance with EN 10204 3.1 / ASME SA-789.





OUR GLOBAL FOOTPRINT

Building strong partnerships worldwide through trust, quality and collaboration.



CLIENTS VISITING YUZE

Welcoming global partners to Experience our advanced facilities, strict quality control And professional solutions.



PREMIUM QUALITY

Consistent quality is our commitment.



ADVANCED EQUIPMENT

Modern technology for high precision and efficiency.



EXPERT TEAM

Skilled professionals driving excellence.



GLOBAL STANDARD

Production meets international standards and customer expectations.

LARGE DIAMETER HEAVY-WALL ALUMINUM TUBE

5

Power for Heavy Industry



Core Features & Specifications

DIAMETER UP TO 600MM

Large diameter capabilities for heavy industrial flow and structural needs.

WALL THICKNESS ≥200MM

Tailored wall thickness engineered to specific client requirements.

FATIGUE LIFE HIGH

Designed and manufactured to ensure long service life under high-stress conditions.

Precision Manufacturing Process

Our large diameter heavy-wall aluminum tubes are manufactured through an integrated process of extrusion, drawing, and finishing to deliver exceptional dimensional accuracy, mechanical performance, and surface quality. Engineered for the most demanding applications where strength, reliability, and performance are non-negotiable.

(EXTRUSION – DRAWING – FINISHING)



1. EXTRUSION

High-strength aluminum billet is extruded into hollow tube.

Initial forming process defining the core hollow structure under high pressure and temperature.



2. DRAWING

Tube is drawn over a mandrel to achieve precise dimensions and enhanced properties.

Cold drawing refinement to ensure tight dimensional tolerances and increased mechanical strength.



3. FINISHING

Precision cutting, heat treatment, and surface finishing ensure superior quality and consistency.

Final treatment phase to optimize material properties and deliver flawless surface finish.

Built for Critical Applications



OIL & GAS



MARINE



RAIL TRANSIT

LARGE DIAMETER
HEAVY-WALL ALUMINUM TUBE

GRADE COMPARISON TABLE

Grade	Primary Alloying Elements	Heat Treatable	Weldability	Typical Applications
6061-T6	Mg, Si	Yes	Good	Structural, General Purpose, Marine, Pressure Vessels
6063-T5	Mg, Si	Yes	Excellent	Architectural, Marine, Decorative, Structural
7075-T6	Zn, Mg, Cu	Yes	Fair	Aerospace, High Strength Structures, Defense
5083-H112	Mg	No	Excellent	Marine, Pressure Vessels, Tanks, Offshore Structures
2024-T3	Cu, Mg, Mn	Yes	Fair	Aerospace, High Strength Applications

SPECIFICATION RANGE

Parameter	Range	Notes
Outside Diameter (OD)	200 mm - 600 mm	Custom diameters available upon request
Wall Thickness (WT)	10 mm - 100 mm	Heavy-wall capability for high pressure & load applications
Length	Up to 12,000 mm	Custom cut lengths available

TYPICAL MECHANICAL PROPERTIES

(TYPICAL VALUES AT ROOM TEMPERATURE)

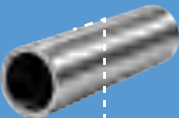
Grade	Tensile Strength (MPa)		Yield Strength 0.2% Offset (MPa)		Elongation (in 50mm) % Min.
	Min.	TYP.	Min.	TYP	Min.
6061-T6	310	340	275	310	12
6063-T5	160	190	110	145	12
7075-T6	510	570	435	490	11
5083-H112	275	310	125	160	15
2024-T3	440	470	325	345	10

Note: Values are typical and for reference only. Actual properties may vary with product size and processing. Material manufactured to applicable ASTM standards.

Product Forms



ROUND
TUBE



CUT TO
LENGTH



MULTIPLE
LENGTHS



CUSTOM
MACHINING
AVAILABLE

ALUMINUM MEDIUM & THICK PLATE

7

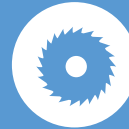
Power for Advanced Manufacturing



ULTRA-LARGE
DIMENSIONS



HIGH STRENGTH
ALLOYS



PRECISION
SAW CUTTING

Precision Manufacturing Section

- Our aluminum medium and thick plates are produced using advanced hot rolling and heat treatment processes to achieve exceptional mechanical properties, flatness, and dimensional stability.
- Engineered for the most demanding applications where strength, reliability, and precision are non-negotiable.

HOT ROLLING-HEAT TREATMENT-PRECISION SAWING



HOT ROLLING

Aluminum slab is heated and hot rolled to achieve uniform thickness and superior mechanical properties.



HEAT TREATMENT

Plates are solution treated and artificially aged to enhance strength, toughness, and corrosion resistance.



PRECISION SAWING

Large plates are precision saw cut to exact dimensions with excellent edge quality and minimal tolerance.

Built for Critical Applications



AEROSPACE



MOLD
MAKING



MARINE



TRANSPORTATION

ALUMINUM MEDIUM & THICK PLATE

HIGH STRENGTH. EXCELLENT MACHINABILITY. RELIABLE PERFORMANCE

GRADE COMPARISON TABLE

PROPERTY	5083	5052	6061	7075	2024
Primary Alloying Elements	Mg, Mn	Mg, Cr	Mg, Si	Zn, Mg, Cu	Cu, Mg, Mn
Temper (Common)	O, H111, H112, H116, H321, H323	O, H32, H34, H112	T6, T651, T4	T6, T651	T3, T351
Typical Thickness Range (mm)	6 - 300	6 - 300	6 - 300	6 - 300	6 - 300
Tensile Strength (MPa)	275 - 350	228 - 290	310 - 350	572 - 620	470 - 510
Yield Strength (MPa)	125 - 215	90 - 180	276 - 310	503 - 572	325 - 380
Elongation (%)	10 - 20	12 - 20	8 - 12	10 - 16	15 - 20
Corrosion Resistance	Excellent	Excellent	Good	Fair	Fair
Weldability	Excellent	Excellent	Good	Poor	Poor
Machinability	Good	Good	Very Good	Good	Good
Typical Applications	Marine, Pressure Vessels, Chemical Equipment	Sheet Metal Work, Tanks, Transportation	Structural, Marine Fittings, Machinery Parts	Aerospace, High Stress Components, Mold Making	Aerospace, Aircraft Structures, High Strength Parts

SPECIFICATION RANGE

PARAMETER	RANGE	REMARKS
Thickness	6 mm - 300 mm	Custom thickness available within range
Width	Up to 2500 mm	Standard widths, custom width upon request
Length	Up to 6000 mm	Standard lengths, custom length upon request

TOLERANCE & FLATNESS

THICKNESS (mm)	THICKNESS TOLERANCE (mm)		FLATNESS TOLERANCE (mm/m)	
	EN 485-2 Standard	Premium Tolerance	EN 485-2 Standard	Premium Flatness
6-30	± 0.30	± 0.15	2	1
> 30 - 80	± 0.40	± 0.20	2	1
> 80 - 150	± 0.60	± 0.30	2.5	1.5
> 150 - 300	± 0.80	± 0.40	3	2

Note: Tolerances per EN 485-2. Tighter tolerances and flatness available upon request.

Surface Finishes



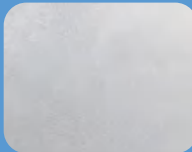
BRUSHED

Linear brushed surface for decorative and functional applications.



MIRROR

High reflectivity surface for premium aesthetic applications.

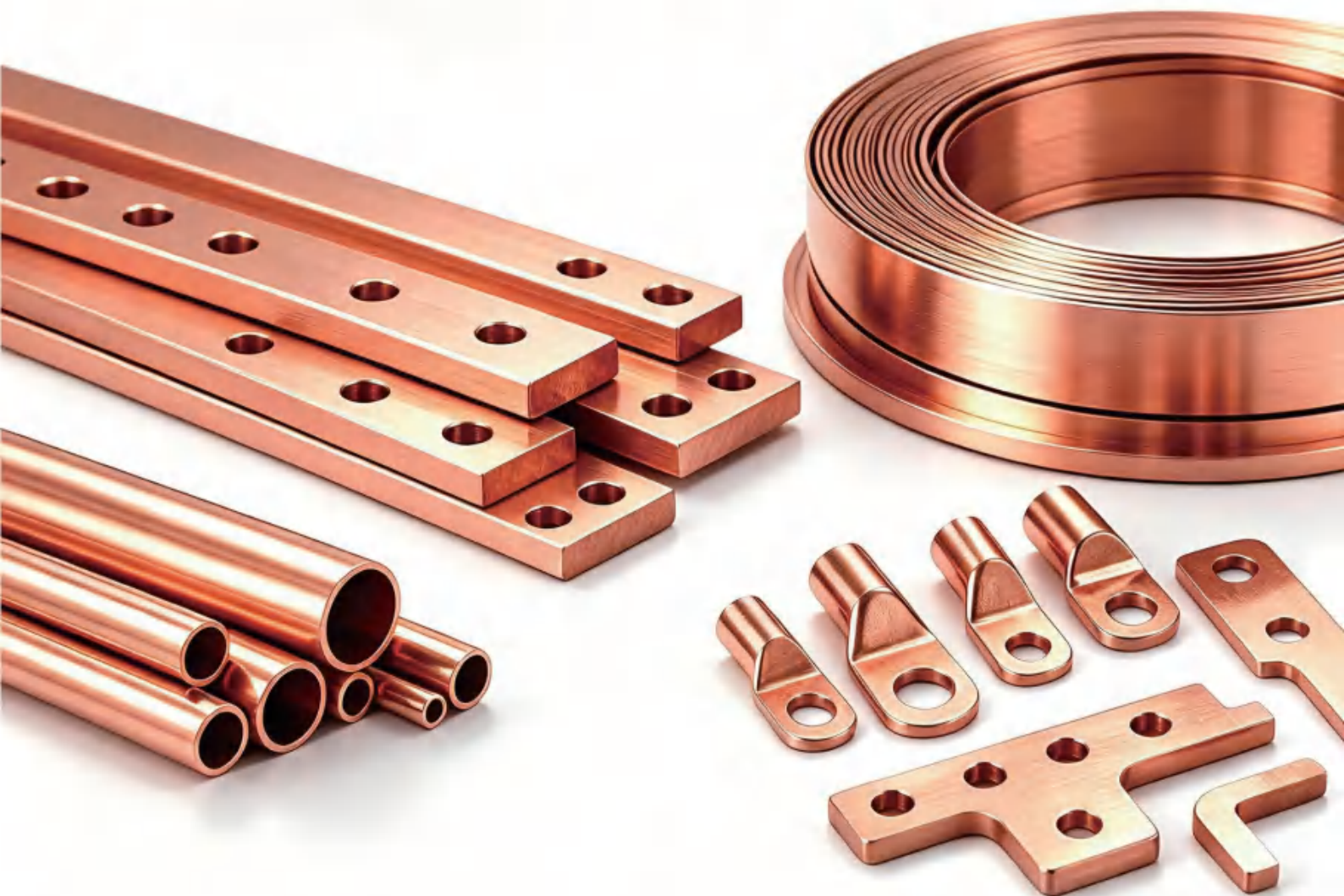


MILL FINISH

Standard mill finish suitable for general industrial use.

PURE COPPER SERIES

— ELECTRICAL PRECISION & DURABILITY —



Our Pure Copper Series offers exceptional electrical conductivity, excellent thermal performance, and superior corrosion resistance. Ideal for a wide range of high-conductivity applications including power distribution, electrical equipment, renewable energy, and industrial systems. Manufactured to strict standards to ensure reliability, efficiency, and long-lasting performance.



PREMIUM
QUALITY



PRECISE
TOLERANCE



CUSTOM
SOLUTIONS



GLOBAL
SUPPLY

PURE COPPER

(RED COPPER)



99.90%
Min. Purity



HIGH
Conductivity



CORROSION
RESISTANCE



100%
Recyclable



GRADE COMPARISON

10

GB/T	ASTM	JIS	EN
TU1	C10100	C1020	CW004A
TU2	C10200	C1100	CW006A
TU3	C10300	C1201	CW008A
T1	C11000	C1220	CW004A
T2	C12200	C1220	CW024A

SPECIFICATION RANGE

PRODUCT FORM	THICKNESS / DIAMETER / SIZE RANGE
Plate / Sheet	Thickness: 0.5 - 100 mm Width: 100 - 2000 mm, Length: 100 - 6000 mm
Strip / Coil	Thickness: 0.05 - 3.0 mm, Width: 10 - 600 mm
Tube / Pipe	Outer Diameter: 4 - 219 mm Wall Thickness: 0.5 - 20 mm, Length: ≤ 6000 mm
Bar / Rod	Diameter: 4 - 200 mm Length: ≤ 6000 mm
Wire	Diameter: 0.10 - 15.0 mm
Forging / Ring	Customized according to drawings

TYPICAL CHEMICAL COMPOSITION (WT.%)

Cu	O	P	Fe	Pb	Bi	Impurities Total
≥99.90	≤0.02	≤0.005	≤0.005	≤0.005	≤0.002	≤0.10

APPLICATION SCENARIOS



Electrical Industry

Electrical connectors, cables, busbars, switches, transformers, etc.



Thermal Industry

Heat exchangers, condensers, air conditioners, refrigeration components, etc.



Industrial Manufacturing

Valves, pipes, fittings, instrumentation, and precision components.



Building & Decoration

Roofing, gutters, decorative materials, and architectural applications.



Marine Engineering

Shipbuilding, offshore equipment, and marine hardware.

AVAILABLE PRODUCT FORMS



Plate / Sheet



coil/strip



tube/pipe



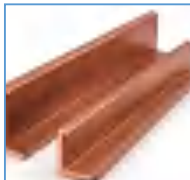
bar/rod



wire



forging/ring



profiles

BRASS ALLOY SERIES

— VERSATILE PRECISION & DURABILITY —



Our Brass Alloy Series combines excellent machinability, corrosion resistance, and aesthetic appeal—making it ideal for a wide range of decorative and functional applications.

From architectural accents to high-performance components, our brass solutions deliver reliability, precision, and timeless value.



PREMIUM
QUALITY



PRECISE
TOLERANCE



CUSTOM
SOLUTIONS



GLOBAL
SUPPLY



BRASS ALLOYS

(COPPER-ZINC ALLOYS)

12

GRADE COMPARISON

GB/T	H62	H65	H70	HPb59-1	HPb63-3	HSn70-1	HAI77-2
ASTM	C28000	C27000	C26000	C38500	C36000	C44300	C68700
JIS	C2800	C2700	C2600	C3850	C3604	C4430	C6870
EN	CuZn40	CuZn37	CuZn30	CuZn39Pb1	CuZn36Pb3	CuZn28Sn1	CuZn20Al2

CHEMICAL COMPOSITION (WT.%)

GRADE	Cu	Zn	Pb	Sn	Al	Fe	Ni	Others
H62	60.5-63.5	Rest	≤0.08	≤0.01	≤0.10	≤0.15	≤0.10	-
H65	63.5-68.0	Rest	≤0.08	≤0.01	≤0.10	≤0.15	≤0.10	-
H70	68.5-71.5	Rest	≤0.08	≤0.01	≤0.10	≤0.15	≤0.10	-
HPb59-1	57.0-60.0	Rest	0.8-1.9	≤0.01	≤0.02	≤0.15	≤0.10	-
HPb63-3	62.0-64.0	Rest	2.5-3.5	≤0.01	≤0.02	≤0.15	≤0.10	-
HSn70-1	≈ 68.0	Rest	≤0.05	0.8-1.2	≤0.02	≤0.15	≤0.20	-
HAI77-2	76.0-79.0	Rest	≤0.03	≤0.05	0.8-1.6	≤0.15	≤0.20	-

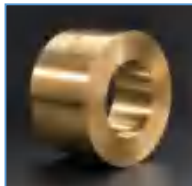
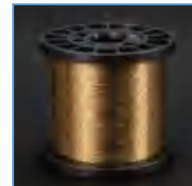
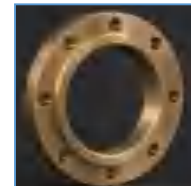
SPECIFICATION RANGE

PRODUCT FORM	DIMENSION RANGE
 Plate	Thickness: 0.3 - 120 mm Width: 100 - 2000 mm, Length: 100 - 6000 mm
 Tube	Outer Diameter: 6 - 273 mm Wall Thickness: 0.5 - 20 mm, Length: ≤ 6000 mm
 Bar	Across Flats (Hex): 5 - 120 mm Length: 1000 - 6000 mm
 Wire	Diameter: 0.1 - 10.0 mm Supply condition: Coil / Straight

APPLICATION SCENARIOS

 ARCHITECTURE	 AUTOMOTIVE	 MARINE	 ELECTRICAL	 VALVES
---	--	---	---	---

APPLICATION SCENARIOS

 PLATE / SHEET	 COIL / STRIP	 TUBE / PIPE	 ROUNDS & HEX BARS	 WIRE	 FORGING	 SPECIAL PROFILES
---	---	--	--	--	--	---

BRONZE ALLOY SERIES

— HEAVY DUTY PRECISION & DURABILITY —



Our Bronze Alloy Series delivers exceptional wear resistance, low friction, and superior corrosion resistance for demanding industrial applications. Ideal for heavy loads, high impact, and continuous operation in harsh environments. Engineered for performance. Built to last.



PREMIUM
QUALITY



PRECISE
TOLERANCE



CUSTOM
SOLUTIONS



GLOBAL
SUPPLY



INTERNATIONAL GRADE COMPARISON

TIN BRONZE

GB (China)	ASTM / UNS	JIS (Japan)	EN (Europe)	Typical Applications
QSn4-3	C51100 / UNS C51100	CAC402	CuSn4 / CW450K	Springs, electrical connectors, light load bearings
QSn6.5-0.1	C51900 / UNS C51900	CAC406	CuSn6 / CW452K	Bearings, gears, valves, general engineering
QSn7-0.2	C52100 / UNS C52100	CAC407	CuSn7 / CW453K	High load bearings, gears, marine components

ALUMINUM BRONZE

GB (China)	ASTM / UNS	JIS (Japan)	EN (Europe)	Typical Applications
QAl9-4	C95400 / UNS C95400	CAC702	CuAl9Ni4 / CW307G	High strength springs, gears, valves, marine parts
QAl10-3-1.5	C95800 / UNS C95800	CAC703	CuAl10Fe3 / CW309G	Heavy duty valves, molds, pump & marine components

BERYLLIUM BRONZE

GB (China)	ASTM / UNS	JIS (Japan)	EN (Europe)	Typical Applications
QBe2	C17200 / UNS C17200	C1720	CuBe2 / CW102C	High strength springs, precision molds, instruments, explosion-proof tools



All compositions conform to respective national and international standards. Custom grades and dimensions available upon request.

AVAILABLE FORMS



BRONZE RODS
DIA 8-250MM



BRONZE TUBES
OD 10-250MM



BRONZE SHEETS / STRIPS:
THICKNESS 0.2-40MM



MACHINED PARTS:
TOLERANCE UP TO
± 0.01MM



BRONZE BARS & STRIPS:
SQUARE, FLAT, ROUND
& COILED STRIPS

CUPRONICKEL SERIES

— MARINE GRADE PRECISION & DURABILITY —



Our Cupronickel Series is engineered for superior performance in the most demanding marine environments.

With excellent resistance to seawater corrosion, erosion, and biofouling, cupronickel alloys deliver long service life, reliability, and safety for critical marine applications.

Trusted by shipbuilders and marine OEMs worldwide.



PREMIUM
QUALITY



PRECISE
TOLERANCE



CUSTOM
SOLUTIONS



GLOBAL
SUPPLY

CUPRONICKEL

16

(WHITE COPPER)



EXCELLENT CORROSION
RESISTANCE



HIGH THERMAL
STABILITY

GRADE COMPARISON

GB/T	B10	B30	BFe10-1-1	BFe30-1-1	BZn15-20	BZn18-18	BMn3-12
ASTM	C70600	C71500	C70600	C71500	C75200	C77000	C72200
JIS	C7060	C7150	C7060	C7150	C7520	C7700	C7220
EN	CW352H	CW354H	CW352H	CW354H	CW401J	CW409J	CW300G

SPECIFICATION RANGE

PRODUCT FORM	DIMENSION RANGE
 Plate	TThickness: 0.5 - 100 mm Width: 100 - 2000 mm, Length: 100 - 6000 mm
 Tube	Outer Diameter: 6 - 273 mm Wall Thickness: 0.5 - 20 mm, Length: ≤ 6000 mm
 Bar	Diameter: 6 - 300 mm Length: 1000 - 6000 mm
 Wire	Diameter: 0.1 - 10.0 mm Supply condition: Coil

TYPICAL CHEMICAL COMPOSITION (WT.%)

GRADE	Cu	Ni	Fe	Mn	Zn
B10 / C70600 / C7060 / CW352H	Bal.	9.0 - 11.0	≤ 0.10	≤ 1.0	≤ 0.50
B30 / C71500 / C7150 / CW354H	Bal.	29.0 - 31.0	≤ 0.10	≤ 1.0	≤ 0.50
BFe10-1-1 / C70600 / C7060 / CW352H	Bal.	9.0 - 11.0	1.0 - 1.8	≤ 1.0	≤ 0.50
BFe30-1-1 / C71500 / C7150 / CW354H	Bal.	29.0 - 31.0	1.0 - 1.8	≤ 1.0	≤ 0.50
BZn15-20 / C75200 / C7520 / CW401J	Bal.	14.0 - 16.0	≤ 0.50	≤ 1.0	19.0 - 21.0
BZn18-18 / C77000 / C7700 / CW409J	Bal.	17.0 - 19.0	≤ 0.50	≤ 1.0	17.0 - 19.0
BMn3-12 / C72200 / C7220 / CW300G	Bal.	2.0 - 4.0	≤ 0.50	11.0 - 13.0	≤ 1.0

Note: Bal. = Balance (Copper)

APPLICATION SCENARIOS



MARINE
ENGINEERING



DESALINATION



ELECTRONIC
COMPONENTS



COINAGE



PRECISION
INSTRUMENTS

AVAILABLE PRODUCT FORMS

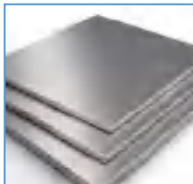


PLATE / SHEET



COIL/STRIP



TUBE/PIPE



BAR / ROD



WIRE



FORGING / RING



PROFILES

NICKEL-BASED ALLOY SERIES

High-performance nickel alloys designed for corrosive environments, extreme temperatures, and critical applications.

INCONEL 625
Bars

HASTELLOY C276
Wire

MONEL 400
Plates

INCONEL 718
Machined Part



NICKEL-BASED ALLOY SERIES

ENGINEERED FOR EXTREME CONDITIONS. BUILT TO PERFORM.



Corrosion Resistant



High Temperature Strength



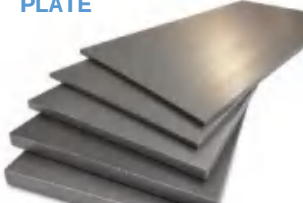
Excellent Fabricability



Long Service Life

PRODUCT FORMS

PLATE



Thickness: 0.5 – 100 mm
Width: up to 2500 mm
Length: up to 6000 mm

ROUND BAR



Diameter: 6 – 500 mm |
Length: up to 6000 mm

HEX BAR



Across Flats: 8 – 200 mm
Length: up to 6000 mm

TUBE



OD: 6 – 406 mm
WT: 0.5 – 50 mm
Length: up to 6000 mm

WIRE



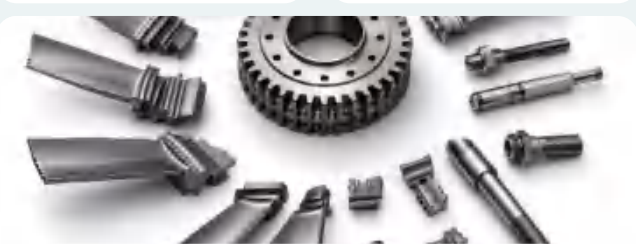
Diameter: 0.1 – 20 mm
Coil Weight: 5 – 50 kg

PROFILE



Custom Sections Available
Length: up to 6000 mm

MACHINED PART



Precision Machined Components
As per Drawing / Specification

GRADE COMPARISON TABLE

Alloy (UNS)	Monel 400 (N04400)	Inconel 600 (N06600)	Inconel 625 (N06625)	Hastelloy C-276 (N10276)	Hastelloy C-22 (N06022)	Haynes 230 (N06230)	Haynes 625 (N06625)
Alloy Type	Ni-Cu	Ni-Cr-Fe	Ni-Cr-Mo-Nb	Ni-Mo-Cr-W	Ni-Cr-Mo-W	Ni-Cr-W	Ni-Cr-Mo-Nb
Key Features	Excellent seawater resistance	Good high-temp strength and oxidation resistance	Excellent strength, corrosion & fatigue resistance	Superior resistance to pitting, crevice & stress corrosion	Excellent resistance to pitting & intergranular corrosion	High-temp strength & oxidation resistance	High strength & excellent corrosion resistance
Max Continuous Service Temp.	480°C	1093°C	982°C	1049°C	1050°C	1093°C	982°C
Typical Applications	Seawater systems, heat exchangers	Heat treating furnaces, chemical processing	Aerospace, oil & gas, chemical processing	Chemical processing, pollution control	Chemical processing, pharma, pulp & paper	Gas turbines, industrial furnaces	Aerospace, marine, oil & gas, chemical processing

PHYSICAL PROPERTIES (AT ROOM TEMPERATURE)

Includes Density, Melting Range, Thermal Conductivity, Thermal Expansion, Electrical Resistivity, and Modulus of Elasticity for all grades listed above.

MECHANICAL PROPERTIES (AT ROOM TEMPERATURE)

Includes Tensile Strength (MPa), Yield Strength 0.2% (MPa), Elongation (%), and Hardness (HB) for all grades.

CHEMICAL COMPOSITION (WT. %)

Detailed breakdown of Nickel (Ni), Chromium (Cr), Iron (Fe), Molybdenum (Mo), Copper (Cu), Tungsten (W), Niobium + Tantalum (Nb+Ta), Cobalt (Co), Manganese (Mn), Silicon (Si), Carbon (C), Sulfur (S), and Phosphorus (P).

INDUSTRY APPLICATIONS



OIL & GAS

- Offshore platform
- Subsea equipment
- Heat exchangers
- Wellhead components
- Sour gas environments.



CHEMICAL PROCESSING

- Reactors & vessels
- Heat exchangers
- Piping systems
- Valves & pumps
- Acid & alkali handling



MARINE & OFFSHORE

- Seawater systems
- Desalination plants
- Propeller shafts
- Offshore structures
- Fasteners & fittings



AEROSPACE & POWER

- Jet engine components
- Combustion systems
- Gas turbine parts
- High-temp fasteners
- Heat shields

GLOBAL STANDARDS & SERVICE



GLOBAL SUPPLY



CUSTOM SOLUTIONS



QUALITY ASSURANCE



FAST DELIVERY

• QUALITY YOU CAN TRUST. PERFORMANCE YOU CAN RELY ON.

TITANIUM ALLOY

19

STRENGTH · LIGHTWEIGHT · CORROSION RESISTANCE

TA2 Round Bar
ASTM B348

TC4 Hex Bar
ASTM B348

Titanium Tube
ASTM B861

Titanium Wire
ASTM B863

Flange
ASTM B381

Special Profile
Customizable

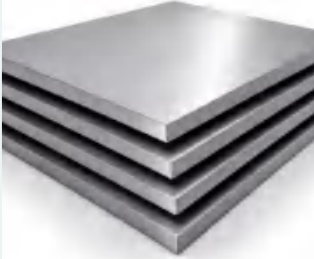
Machined Part
Precision Machining



TITANIUM ALLOY TECHNICAL DATA

ENGINEERED FOR EXTREME CONDITIONS. BUILT TO PERFORM.

TC4 PLATE
ASTM B265



TA2 ROUND BAR
ASTM B348



TC4 HEX BAR
ASTM B348



TITANIUM TUBE
ASTM B861



TITANIUM WIRE
ASTM B863



SPECIAL PROFILE
Customizable



MACHINED PART
Precision Machining



GRADE COMPARISON TABLE

Grade	GB/T	ASTM	JIS	EN (ISO)	UNS
TC4	—	B348 Gr.5 (Ti-6Al-4V)	—	3.7165 (Ti-6Al-4V)	R56400
TA1	TA1	B265 Gr.1 (Commercially Pure)	TP340 Gr.1	3.7025 (Grade 1)	R50250
TA2	TA2	B265 Gr.2 (Commercially Pure)	TP340 Gr.2	3.7035 (Grade 2)	R50400
TA3	TA3	B265 Gr.3 (Commercially Pure)	TP340 Gr.3	3.7055 (Grade 3)	R50550
TA7	TA7	B348 Gr.12 (Ti-0.2Pd)	—	3.7024 (Ti-0.2Pd)	R53412
TA9	TA9	B348 Gr.7 (Ti-0.12Pd)	—	3.7015 (Ti-0.12Pd)	R52400
TA10	TA10	B348 Gr.12 (Ti-0.3Mo-0.8Ni)	—	3.7175 (Ti-0.3Mo-0.8Ni)	R58120
TA15	TA15	—	—	—	—
Ti-6Al-7Nb	—	B348 Gr.5 (Ti-6Al-7Nb)	—	—	R56700
Ti-6242	—	B348 Gr.24 (Ti-6Al-2Sn-4Zr-2Mo)	—	—	R58004

PHYSICAL PROPERTIES (TYPICAL FOR TC4 / Ti-6Al-4V)

Property	Value	Unit	Property	Value	Unit
Density	4.51	g/cm³	Elongation	10–15	%
Melting Point	1668	°C	Hardness (HRC)	32–38	—
Boiling Point	3287	°C	Thermal Conductivity	6.7	W/m · K
Modulus of Elasticity	110	GPa	Specific Heat	0.52	kJ/kg · K
Tensile Strength (UTS)	895–1100	MPa	Coefficient of Thermal Expansion (20–600°C)	8.6	µm/m · K
Yield Strength (0.2%)	825–950	MPa	Electrical Resistivity	1.72	µΩ · m

CHEMICAL COMPOSITION (WT. %)

Grade	Ti	Al	V	Fe (max)	O (max)	C (max)	N (max)	H (max)	Other
TC4 (Ti-6Al-4V)	Bal.	5.5–6.75	3.5–4.5	0.30	0.20	0.10	0.03	0.015	—
TA1 (Grade 1)	Bal.	≤0.20	≤0.03	0.20	0.18	0.08	0.03	0.015	—
TA2 (Grade 2)	Bal.	≤0.30	≤0.03	0.30	0.25	0.08	0.03	0.015	—
TA10 (Ti-0.3Mo-0.8Ni)	Bal.	≤0.10	≤0.05	0.25	0.20	0.08	0.04	0.015	Mo:0.20–0.40 Ni:0.60–0.90
TA15 (Ti-0.3Mo-0.8Ni)	Bal.	≤0.10	≤0.05	0.30	0.20	0.08	0.04	0.015	Mo:0.20–0.40 Ni:0.60–0.90

APPLICATIONS

 AEROSPACE (ENGINE COMPONENTS)	High strength-to-weight ratio, excellent fatigue and creep resistance. Used in compressor blades, discs, shafts, landing gear, and structural parts for aircraft and spacecraft.
 MEDICAL (IMPLANTS)	Biocompatible, corrosion resistant, non-toxic. Used in orthopedic implants, dental implants, bone plates, spinal fixation systems, and surgical instruments.
 CHEMICAL (HEAT EXCHANGERS)	Outstanding corrosion resistance to acids, chlorides, and seawater. Used in heat exchangers, reaction vessels, columns, and pipelines in chemical and petrochemical industries.
 MARINE (DESALINATION)	Superior resistance to seawater corrosion and biofouling. Used in desalination plant components, offshore structures, propeller shafts, and seawater heat exchangers.

SPECIAL ALLOY STEEL

— INDUSTRIAL PRECISION & DURABILITY —



PREMIUM
QUALITY



PRECISE
TOLERANCE



CUSTOM
SOLUTIONS



GLOBAL
SUPPLY

SPECIAL ALLOY STEEL SERIES

• HIGH PERFORMANCE • PRECISION • RELIABILITY



HIGH WEAR
RESISTANCE



HIGH
COMPRESSIVE
STRENGTH



EXCELLENT
TOUGHNESS



GOOD
MACHINABILITY



HIGH
DIMENSIONAL
STABILITY

22

PRODUCT FORMS

BLOCK



ROUND BAR



HEX BAR



TUBE



WIRE



PROFILE



PRECISION TOOLING



GRADE COMPARISON TABLE

Grade	GB/T	ASTM (AISI)	ASTM (UNS)	JIS (G)	EN	Typical Use
D2	Cr12MoV	D2	T30402	SKD11	X153CrMoV12	Cold work dies, shear blades
A2	Cr12Mo1V1	A2	T30102	SKD12	X155CrMoV12	Cold work dies, forming tools
H13	4Cr5MoSiV1	H13	T20813	SKD61	X40CrMoV5-1	Hot work dies, pressure casting
M2	W6Mo5Cr4V2	M2	T11302	SKH51	X10WCrMoV5-1	High speed tools, drill taps
S7	5CrMnMo	S7	T41907	-	55NiCrMoV7	Shock tools, chisels, punches
P20	3Cr2Mo	P20	T51820	NAK80	1.2738	Plastic molds, injection molds
O1	9CrWMn	O1	T31501	SKS3	X210CrW12	Cutting tools, knives, gauges

TYPICAL HARDNESS (HRC)

Grade	Annealed (Max.)	Hardened (Typical Range)	Hardened (Max. Achievable)	Heat Treatment Reference
D2	≤ 241	58 - 62	64	1030-1050°C Oil Quench, 180-200°C Temper
A2	≤ 241	58 - 62	64	1020-1040°C Oil Quench, 180-200°C Temper
H13	≤ 229	44 - 52	54	1020-1050°C Oil Quench, 550-650°C Temper
M2	≤ 241	62 - 66	67	1180-1220°C Oil Quench, 540-560°C Temper (3x)
S7	≤ 229	54 - 58	60	830-860°C Oil Quench, 180-220°C Temper
P20	≤ 241	28 - 32	34	880-920°C Oil Quench, 120-160°C Temper
O1	≤ 197	56 - 60	62	780-820°C Oil Quench, 150-200°C Temper

CHEMICAL COMPOSITION (WT. %)

Grade	C	Si	Mn	Cr	Mo	V	W	Ni	Other
D2	1.40-1.60	≤0.60	≤0.60	11.00-13.00	0.70-1.20	0.70-1.10	-	≤0.30	-
A2	0.95-1.05	≤0.60	≤0.60	11.00-13.00	0.70-1.20	0.15-0.50	-	≤0.30	-
H13	0.32-0.45	0.80-1.20	0.20-0.50	4.75-5.50	1.10-1.75	0.80-1.20	-	≤0.30	-
M2	0.78-0.88	≤0.60	≤0.40	3.75-4.50	4.50-5.50	1.75-2.25	5.50-6.75	≤0.30	Cos 1.00
S7	0.45-0.55	0.20-0.60	0.20-0.60	4.50-5.50	0.40-0.70	-	-	1.40-1.80	-
P20	0.28-0.40	0.20-0.80	0.60-1.00	1.40-2.10	0.15-0.30	-	-	0.30-0.60	-
O1	0.85-1.00	0.20-0.50	0.20-0.50	0.40-0.60	0.40-0.60	-	0.40-0.60	-	-

APPLICATION SCENARIOS

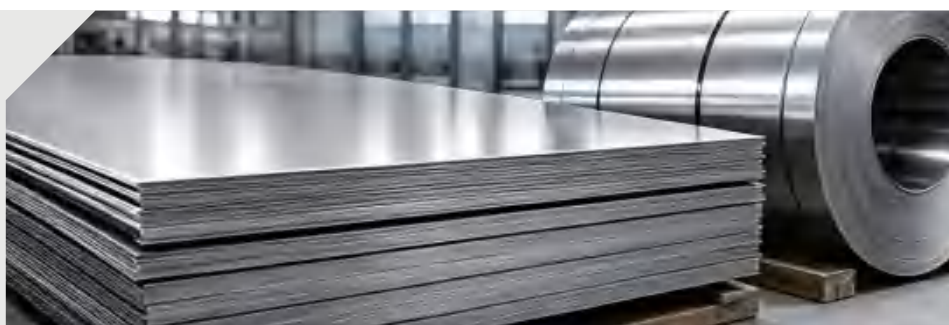
Grade	MAIN FEATURES	TYPICAL APPLICATIONS
D2	• High wear resistance • Good dimensional stability • High compressive strength • Good hardenability	 • Cold work dies • Shear blades • Slitting knives • Wear parts
H13	• Excellent hot strength • Good thermal fatigue resistance • High toughness • Good thermal conductivity	 • Hot work dies • Die casting dies • Extrusion dies • Forging dies
M2	• High red hardness • Excellent wear resistance • Good toughness • Good grindability	 • Cutting tools • Drills • Taps • Reamers

GENERAL STEEL SOLUTIONS

ONE-STOP SOURCING
FOR YOUR PROJECTS

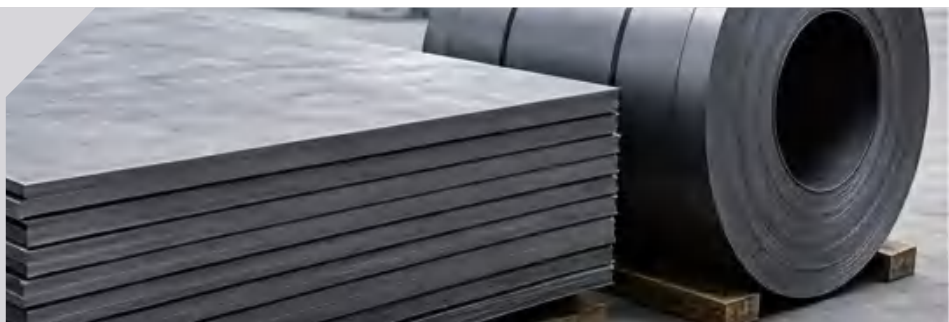
STAINLESS STEEL

- Excellent Corrosion Resistance
- High Strength & Durability
- Clean & Aesthetic Finish



CARBON STEEL

- High Strength & Toughness
- Excellent Formability
- Cost-Effective Solution



GALVANIZED STEEL

- Superior Corrosion Protection
- Zinc Coated for Longer Life
- Low Maintenance



PRE-PAINTED STEEL (PPGI/PPGL)

- Vibrant & Durable Colors
- Corrosion & Weather Resistant
- Ideal for Architectural Applications



PREMIUM
QUALITY



GLOBAL
SUPPLY



ON-TIME
DELIVERY



EXPERT
SUPPORT



CUSTOMIZED
SOLUTIONS

STAINLESS STEEL SERIES

— ULTIMATE OVERVIEW —

Engineered for excellence. Built to last. Our stainless steel series delivers outstanding performance, superior corrosion resistance, and timeless finish for every application.



PREMIUM
QUALITY



CORROSION
RESISTANT



HIGH
STRENGTH



SUSTAINABLE &
RECYCLABLE



SURFACE FINISH GALLERY



2B
Cold rolled, annealed
& pickled



2D
Cold rolled, annealed
& skin passed



BA
Bright annealed &
smooth finish



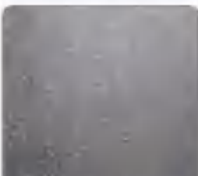
4K
Polished with 150-180
mesh abrasives



8K
High mirror polished
(800-1000 mesh)



HL
Hairline brushed
(linear finish)



SANDBLASTED
Matte textured
non-reflective finish



EMBOSSED
Decorative patterned
stainless steel



COLORED / PVD
PVD coated for enhanced
color & durability

GRADE MATRIX

Grade	UNS NO.	EN / DIN	TYPE	KEY FEATURES	APPLICATIONS
201/202	S20100 / S20200	1.4372 / 1.4373	Austenitic	Economical, good formability, moderate corrosion resistance	Decoration, kitchen appliances, trim
304/L	S30400 / S30403	1.4301 / 1.4307	Austenitic	General purpose, good corrosion resistance, weldability	Food equipment, sinks, tanks, piping
316/L	S31600 / S31603	1.4401 / 1.4404	Austenitic	Mo resistance, excellent corrosion resistance, especially in chloride environments	Marine, chemical, pharma, offshore
317L	S31703	1.4438	Austenitic	Higher Mo than 316L, superior corrosion resistance	Chemical processing, marine, pulp & paper
321	S32100	1.4541	Austenitic	Ti stabilized, resists intergranular corrosion & scaling	High-temp applications, welded components
310S	S31008	1.4845	Austenitic	High Cr/Ni, excellent oxidation resistance at high temperatures	Furnaces, heat exchangers, burners
904L	N08904	1.4539	Austenitic	Super austenitic, high corrosion resistance in aggressive media	Chemical, pharma, desalination, pulp
430	S43000	1.4016	Ferritic	Good corrosion resistance, formable, magnetic	Appliances, automotive trim, architecture
409	S40900	1.4512	Ferritic	Al stabilized, good heat resistance, economical	Automotive exhaust, heat exchangers
410	S41000	1.4006	Martensitic	Heat treatable, good wear resistance, moderate corrosion	Turbine blades, valves, pumps, cutlery
420	S42000	1.4021	Martensitic	High hardness, good wear resistance	Cutlery, surgical tools, industrial parts
440C	S44004	1.4125	Martensitic	Highest hardness & wear resistance among SS	Bearings, knives, precision tools
2205	S31803	1.4462	Duplex	Duplex (Austenitic-Ferritic), high strength & corrosion resistance	Oil & gas, chemical, marine, desalination
2507	S32750	1.4410	Super Duplex	Higher PREN, excellent pitting & crevice corrosion resistance	Offshore, chemical, pulp & paper
17-4PH	S17400	1.4542	PH (Martensitic)	Precipitation hardening, high strength, corrosion resistant	Aerospace, valves, shafts, marine
17-7PH	S17700	1.4568	PH (Austenitic)	Excellent strength, toughness & corrosion resistance	Aerospace, springs, fasteners, tools

KEY PROPERTIES



CORROSION RESISTANCE
Withstands harsh environments and resists rust & oxidation.



HIGH STRENGTH
Excellent mechanical properties for demanding applications.



HEAT RESISTANCE
Performs reliably in high temperature conditions.



HYGIENIC & EASY TO CLEAN
Non-porous surface ensures hygiene and easy maintenance.



SUSTAINABLE
100% recyclable and environmentally responsible.

APPLICATIONS



CONSTRUCTION
Structural, architectural, facades, handrails



MEDICAL
Surgical instruments, implants, medical devices



FOOD
Food processing, storage tanks, equipment



CHEMICAL
Process equipment, piping, reactors, heat exchangers

STAINLESS STEEL SHEETS & COILS

SHEETS & PLATES

Precision surfaces. Reliable performance.
Built for every industry.

SURFACE FINISHES



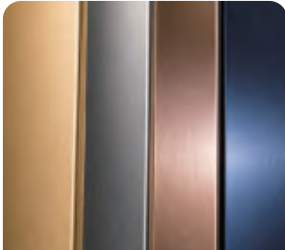
COLD ROLLED



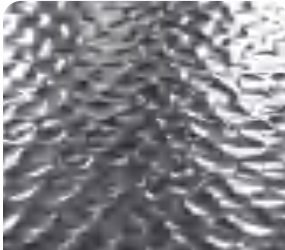
HOT ROLLED



EMBOSSSED



COLORLED (PVD)



CORRUGATED
(WATER RIPLE)

SPECIFICATIONS (SHEETS & PLATES)

*Other sizes and tolerances available upon request.

THICKNESS	WIDTH	LENGTH	FLATNESS TOLERANCE (mm/m)			
			(mm) - GB	(mm) - ASTM	(mm) - JIS	(mm) - EN
0.3 - 100 mm	1000 - 2000 mm	2000 - 6000 mm	± 0.05 - ± 0.20	± 0.03 - ± 0.15	± 0.04 - ± 0.16	± 0.03 - ± 0.15

COILS

Consistent quality. Smooth processing.
Engineered for high performance.



SPECIFICATIONS (COILS)

*Other sizes and tolerances available upon request.

THICKNESS	WIDTH	ID	OD (MAX)	TOLERANCES			
				(mm) - GB	(mm) - ASTM	(mm) - JIS	(mm) - EN
0.1 - 15 mm	50 - 2000 mm	508 / 610 mm	2000 mm	± 0.03 - ± 0.15	± 0.03 - ± 0.12	± 0.03 - ± 0.12	± 0.03 - ± 0.12



CONSTRUCTION



CHEMICAL



MARINE



FOOD PROCESSING



MEDICAL



AUTOMOTIVE

STAINLESS STEEL STRIPS & WIRES



CORROSION
RESISTANT



PRECISE TOLERANCES
CONSISTENT QUALITY



SUPERIOR
SURFACE FINISH



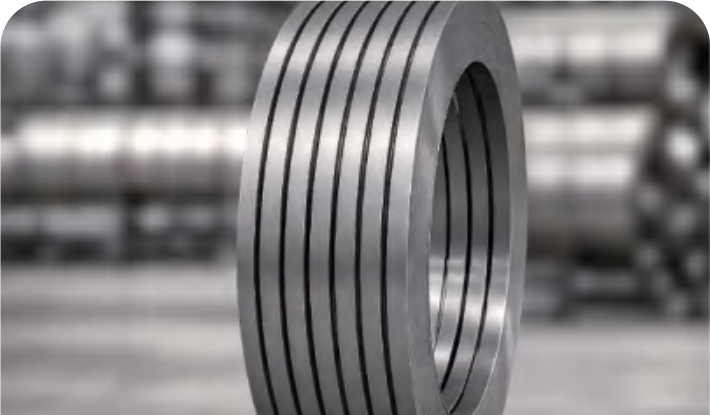
WIDE APPLICATIONS
RELIABLE PERFORMANCE

STRIPS



COLD ROLLED STRIP

Thin, precise, bright finish.



HOT ROLLED STRIP

Slightly thicker, industrial matte finish.

THICKNESS (mm)	WIDTH (mm)	TOLERANCES			
		(mm) - GB	(mm) - ASTM	(mm) - JIS	(mm) - EN
0.03 - 6.0	3 - 600	± 0.01 - ± 0.05	± 0.01 - ± 0.05	± 0.01 - ± 0.05	± 0.01 - ± 0.05

WIRES



BRIGHT WIRE

High-gloss finish.



MATTE / PICKLED WIRE

Non-reflective surface.



SPRING WIRE

High strength and elasticity.



EP QUALITY WIRE

Ultra-clean, medical-grade finish.

WIRE DIAMETER (mm)	TENSILE STRENGTH (MPa)	ELONGATION (%)	STANDARDS			
			GB	ASTM	JIS	EN
0.1 - 12.0	500 - 1800	15 - 40	YB/T 5249	A580 / A313	G4309	10270 / 10278



CONSTRUCTION



CHEMICAL



MARINE



FOOD PROCESSING



MEDICAL



AUTOMOTIVE

STAINLESS STEEL PIPES & BARS

27

PIPES & TUBES



WELDED PIPE



SEAMLESS PIPE



CAPILLARY TUBE



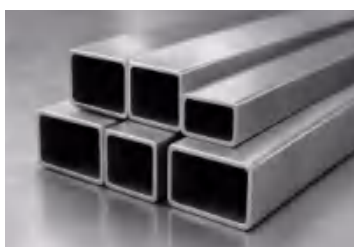
COILED TUBING



HEXAGONAL TUBE



SHAPED TUBE



RECTANGULAR TUBE



SQUARE TUBE



OVAL TUBE

OUTSIDE DIAMETER	WALL THICKNESS	LENGTH	TOLERANCES			
			GB	ASTM	JIS	EN
6 - 630 mm	0.5 - 40 mm	4 - 12 m	± 0.10 - ± 1.00 mm	± 0.10 - ± 1.00 mm	± 0.10 - ± 1.00 mm	± 0.10 - ± 1.00 mm

BARS



BLACK ROUND BAR



BRIGHT ROUND BAR



HEXAGONAL BAR



FLAT BAR



SHAPED BAR



SQUARE BAR



RECTANGULAR BAR

DIAMETER / SIDE WIDTH	LENGTH	SURFACE FINISH	STANDARDS			
			GB	ASTM	JIS	EN
1 - 480 mm	2 - 6 m	Black / Bright	GB/T 5248	A276 / A479	G4303	10088-3



CONSTRUCTION



CHEMICAL
INDUSTRY



MARINE
ENGINEERING



FOOD & BEVERAGE
PROCESSING



MEDICAL
ENGINEERING



MACHINERY
MANUFACTURING



WATER TREATMENT
SYSTEMS

STAINLESS STEEL FITTINGS & PRECISION PARTS

ENGINEERED FOR STRENGTH.
BUILT FOR PERFORMANCE.



PRECISION ENGINEERED. QUALITY ASSURED.

CNC MACHINED PARTS



High-precision CNC components with tight tolerances and superior surface finish.

SHEET METAL FABRICATION



Custom sheet metal solutions crafted with accuracy, strength and durability.

INVESTMENT CASTING PARTS



Complex casting parts with excellent dimensional accuracy and fine finish.

FASTENERS & HARDWARE



Wide range of stainless steel fasteners for reliable and corrosion-resistant applications.



PREMIUM QUALITY
Materials & Manufacturing



CUSTOM SOLUTIONS
Tailored to Your Needs



PRECISION & RELIABILITY
Delivered Every Time



INDUSTRY COMPLIANCE
Global Standards

ALUMINUM ALLOY GRADES AND INTERNATIONAL STANDARDS

HIGH QUALITY ALUMINUM • GLOBAL STANDARDS • RELIABLE PERFORMANCE

Alloy Series	GB/T	ASTM	EN	JIS	Typical Characteristics
1xxx (Commercially Pure Aluminum)	1050, 1060, 1070	A1050, A1060, A1070	EN AW-1050A, EN AW-1060, EN AW-1070A	A1050P, A1070P	Excellent corrosion resistance, high electrical & thermal conductivity, easy to form and weld.
2xxx (Al-Cu Alloys)	2024, 2017A, 2A12	A2024, A2017, A2124	EN AW-2024, EN AW-2017A, EN AW-2011	A2024P, A2017P, A2011P	High strength, good fatigue resistance, widely used in aerospace and structural applications.
3xxx (Al-Mn Alloys)	3003, 3004, 3105	A3003, A3004, A3105	EN AW-3003, EN AW-3004, EN AW-3105	A3003P, A3004P, A3105P	Good corrosion resistance, excellent formability and moderate strength.
4xxx (Al-Si Alloys)	4043, 4047, 4104	A4043, A4047, A4104	EN AW-4043, EN AW-4047, EN AW-4104	A4043P, A4047P, A4104P	Low melting point, good fluidity, commonly used as filler metal and in welding applications.
5xxx (Al-Mg Alloys)	5052, 5083, 5754	A5052, A5083, A5754	EN AW-5052, EN AW-5083, EN AW-5754	A5052P, A5083P, A5754P	Excellent corrosion resistance, high strength, good weldability, ideal for marine applications.
6xxx (Al-Mg-Si Alloys)	6061, 6063, 6082	A6061, A6063, A6082	EN AW-6061, EN AW-6063, EN AW-6082	A6061P, A6063P, A6082P	Good strength, excellent extrudability, widely used in construction, transportation and machinery.
7xxx (Al-Zn-Mg Alloys)	7075, 7050, 7475	A7075, A7050, A7475	EN AW-7075, EN AW-7050, EN AW-7475	A7075P, A7050P, A7475P	Very high strength, stress corrosion cracking resistance, used in aerospace and high-performance parts.

ALUMINUM PLATE SURFACE FINISHES



Mill Finish
Standard industrial finish with a smooth, uniform appearance.



Anodized
Enhanced corrosion resistance and durability with a refined appearance.



Powder Coated
Vibrant color options with superior weather resistance and durability.



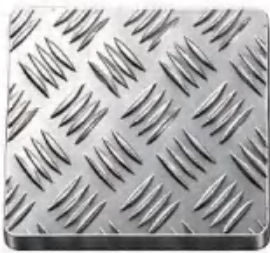
Brushed
Decorative linear finish for a modern, elegant look.



Stucco Embossed
Classic orange-peel texture that effectively hides scratches and reduces glare.



Polished
Smooth, reflective surface with a bright metallic luster.



Embossed (Checker Plate)
Non-slip surface with decorative and functional benefits.



Mirror Finish
Ultra-high reflectivity for premium decorative applications.



Sandblasted
Uniform matte surface with a fine-grained texture for a non-reflective, modern look.



Wood Grain
Decorative finish mimicking natural wood textures for premium architectural applications.

ALUMINUM PRODUCTS

30

 High Quality  Precision Manufacturing  Reliable Supply

ALUMINUM PLATES & SHEETS

- VARIOUS FINISHES. WIDE RANGE OF GRADES.
- VERSATILE FOR EVERY APPLICATION.

Grade	Thickness	Width	Length
1xxx	0.2-350mm	up to 2000mm	up to 6000mm
3xxx	0.2-350mm	up to 2000mm	up to 6000mm
5xxx	0.2-350mm	up to 2000mm	up to 6000mm
6xxx	0.2-350mm	up to 2000mm	up to 6000mm

Standard specifications shown.
Custom sizes available upon request



ALUMINUM COILS & FOILS

- HIGH PRECISION. EXCELLENT SURFACE QUALITY.
- IDEAL FOR A WIDE RANGE OF INDUSTRIES.



Plain Coil



Embossed Coil (Orange Peel)



Aluminum Foil

COILS SPECIFICATIONS

Item	Specification
Thickness	0.2-6.0mm
Width	up to 2000mm
ID (Inner Diameter)	505 / 508mm
OD (Outer Diameter)	up to 2000mm
Surface Finish	Mill Finish, Embossed, etc.



Tolerance: $\pm 0.02\text{mm}$

FOILS SPECIFICATIONS

Item	Specification
Thickness	0.006-0.2mm
Width	up to 1200mm
ID (Inner Diameter)	76 / 152mm
Surface Finish	Mill Finish
Temper	O, H14, H16, H18, etc.



Ultra-thin & Flexible
Excellent Formability

Standard specifications shown. Custom sizes available upon request

ALUMINUM TUBES, BARS & WIRES

31

ALUMINUM TUBES & PIPES



Round Tubes



Square Tubes



Rectangular Tubes



Anodized Colored Tubes

Feature	Specification
 Outer Diameter	3mm - 600mm
 Wall Thickness	0.5mm - 50mm
 Available Alloys	6061

• Standard specifications shown. Custom sizes available upon request.

ALUMINUM BARS, RODS & WIRES



Round Bars



Square Bars



Flat Bars



Hexagonal Bars



Aluminum Wire

BARS, RODS & PROFILES		
 Diameter	3mm - 500mm	
 Available Alloys	6061	
 Typical Finish	Mill Finish / Anodized / Polished	

WIRES Specifications		
 Diameter	0.1mm - 12mm	
 Available Alloys	6061	
 Typical Finish	Soft / Half Hard / Hard	

• Standard specifications shown. Custom sizes available upon request.



PREMIUM QUALITY
ALUMINUM



PRECISION
MANUFACTURING



WIDE RANGE OF
SIZES & ALLOYS



RELIABLE SUPPLY &
ON-TIME DELIVERY

COLORED ALUMINUM & INDUSTRIAL SOLUTIONS

COLORED & ADVANCED SURFACE SERIES

Premium aluminum with advanced surface finishes for architectural, decorative, and industrial applications.



SURFACE COATING SPECIFICATIONS			
Coating Type	Process	Typical Thickness	Performance Features
Anodized	Electrochemical Anodizing	10 – 25 µm	Corrosion Resistance Wear Resistance Excellent Adhesion
PVD	Physical Vapor Deposition	10 – 25 µm	Superior Hardness Premium Metallic Finish High Durability
Powder Coated	Electrostatic Powder Coating	60 – 120 µm	Color Variety Weather Resistance Strong Mechanical Property

Standard specifications shown. Custom colors and solutions available upon request.



THERMAL SOLUTIONS & CUSTOM FABRICATION

High-performance aluminum solutions engineered for thermal management and precision applications. Custom fabrication to meet your exact requirements.

THERMAL SOLUTIONS



FABRICATION SERVICES

PRECISION CUTTING

Accurate, clean cuts for sheets, plates, and profiles.



CNC MILLING

High-precision machining for complex geometries.



WELDING

Skilled welding for strong, reliable aluminum assemblies.



CARBON STEEL

THE FOUNDATION OF STRENGTH. THE BASIS OF INDUSTRY.

-  HIGH STRENGTH & DURABILITY
-  EXCELLENT MACHINABILITY
-  EASY TO FABRICATE & WELD
-  COST-EFFECTIVE SOLUTION



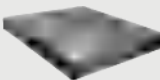
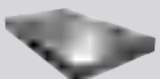
33

CARBON STEEL CLASSIFICATION

CLASSIFICATION	CARBON CONTENT (C%)	TYPICAL AISI/SAE GRADES
LOW CARBON STEEL	0.05 - 0.25%	1006, 1008, 1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045
MEDIUM CARBON STEEL	0.26 - 0.60%	1050, 1060, 1070, 1080, 1140, 1150, 1045, 1541
HIGH CARBON STEEL	0.61 - 1.50%	1065, 1075, 1085, 1095, 8600, 9260, 52100, 1095

Note: Other grades and custom compositions available upon request.

SPECIALTY STEEL TYPES

TYPE	COMMON GRADES
 MANGANESE STEEL	X120Mn12, Mn13, ASTM A128 (Gr.A/B/C/D), DIN 1.3401
 PRESSURE VESSEL STEEL	A516 Gr.60/65/70, A285 Gr.C, P355GH, A387, A537
 STRUCTURAL STEEL	S235JR, S355JR, A36, Q345B, A572 Gr.50/60, SS400
 WEAR-RESISTANT STEEL	NM360, NM400, NM450, NM500, NM600, Harbox 400/500/600

HOT ROLLED VS COLD ROLLED

FEATURE	HOT ROLLED (HR)	COLD ROLLED (CR)
SURFACE	Rough/Oxide	Smooth/Bright
TOLERANCE	Looser	High Precision
GRADES	A36, SS400, S235JR	SPCC, DC01, ST12
APPS	Heavy Construction	Automotive/Electronics

CHOICE GUIDE: Use HR for strength and cost-efficiency in structural applications. Use CR for precision, surface quality, and aesthetic requirements.

PRODUCTION - INSPECTION - PACKAGING

RAW MATERIAL

Steel slabs / billets inspection



PRODUCTION

Hot rolling process to required thickness



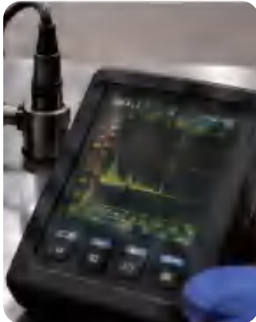
DIMENSIONAL MEASUREMENT

Thickness, width, length and flatness check



UT TESTING

Ultrasonic testing for internal soundness



FINAL PACKAGING

Standard export packing with protective cover



CARBON STEEL PLATES

34



HOT ROLLED PLATE



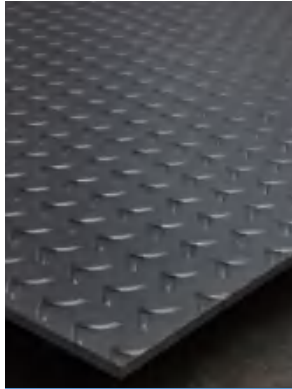
COLD ROLLED PLATE



MANGANESE STEEL PLATE



PRESSURE VESSEL PLATE



CHECKERED PLATE



THICKNESS

1.5-300mm



STANDARDS

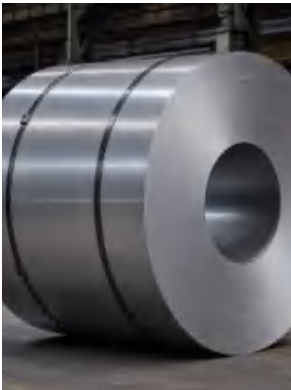
GB/T, ASTM, JIS, EN

Standard specifications; customization available for special requirements.

CARBON STEEL COILS & STRIPS



HOT ROLLED COIL



COLD ROLLED COIL



CHECKERED COIL



GENERAL CARBON STEEL COIL



CARBON STEEL STRIP



THICKNESS

0.15-25mm



STANDARDS

GB/T, ASTM, JIS, EN

• Standard specifications; customization available for special requirements.



ROLLING



DECOILING



MEASUREMENT



PACKAGING

CARBON STEEL PIPES & BARS

PREMIUM QUALITY
HIGH STRENGTH
RELIABLE WORLDWIDE

35

CARBON STEEL PIPE

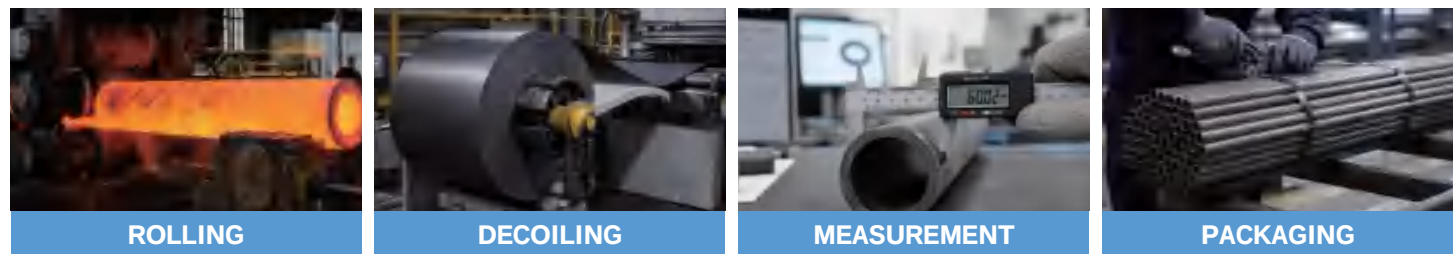


TYPE	STANDARD	OUTSIDE DIAMETER / SIZE	WALL THICKNESS	LENGTH	MATERIAL GRADE	SURFACE FINISH	APPLICATIONS
SEAMLESS	ASTM A106 / A53, API 5L	1/8" – 24" (10.3 – 610 mm)	SCH 10 – SCH 160, 2.11 – 28.58 mm	5.8m / 6m / 12m or as required	A106 B, Q235, Q345, Q195 Gr, A53 Gr.B	Black / Oiled / Varnished	Oil & Gas, Pressure Service, Boiler, Structure
SPIRAL	ASTM A252, API 5L	219 – 3000 mm	6 – 25 mm	6m / 12m or as required	Q235, Q345, A252 Gr.2, API 5L Gr.B	Black / Oiled / Varnished	Water, Oil, Gas Transmission, Piling, Structure
SQUARE	ASTM A500, EN 10219	10x10–500x500 mm	1.5 – 12.0 mm	6m / 12m or as required	Q195, Q235, Q345	Black / Oiled / Galvanized	Structure, Machinery, Construction
RECTANGULAR	ASTM A500, EN 10219	10x20–400x600 mm	1.5 – 12.0 mm	6m / 12m or as required	Q195, Q235, Q345	Black / Oiled / Galvanized	Structure, Machinery, Construction
HEXAGONAL	–	Across Flats: 10 – 100 mm	1.5 – 10.0 mm	6m / 12m or as required	Q235, 45# S45C	Black / Oiled	Mechanical Parts, Decoration, Industry

CARBON STEEL BARS



TYPE	STANDARD	DIAMETER / SIZE	LENGTH	MATERIAL GRADE	SURFACE FINISH	APPLICATIONS
ROUND	ASTM A36 / EN 10025	6 – 300 mm	6m / 12m or as required	Q195, Q235, Q345, A36, S235JR	Black / Oiled	Construction, Machinery, General Engineering
SQUARE	ASTM A36 / EN 10025	8 x 8 – 200 x 200 mm	6m / 12m or as required	Q195, Q235, Q345, A36, S235JR	Black / Oiled	Construction, Structure, Fabrication
HEXAGONAL	ASTM A36 / EN 10025	8 – 100 mm	6m / 12m or as required	Q235, 45# S45C	Black / Oiled	Machinery Parts, Fasteners, Industry
COLD DRAWN	EN 10277 / ASTM A108	6 – 100 mm	6m / 12m or as required	104, 20#, 40#, 45# SAE 1010, S235JR	Bright / Polished	Precision Parts, Shafts, Automotive, Tools
HOT ROLLED	ASTM A36 / EN 10025	10 – 300 mm	6m / 12m or as required	Q195, Q235, Q345, A36, S235JR	Black / Rough	Structure, Construction, General Engineering



CARBON STEEL REBAR & COILED REBAR

- ✓ HIGH STRENGTH
- ✓ RELIABLE QUALITY
- ✓ BUILT TO LAST

DEFORMED REBAR



High-strength deformed steel bars with excellent ductility and bond performance. Ideal for reinforced concrete structures in construction and infrastructure projects.

GRADES	SIZES (DIAMETER)
HRB400	6, 8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 50 mm
HRB500	6, 8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 50 mm

- 
High Yield Strength
- 
Strong Bond Performance
- 
Excellent Ductility
- 
Consistent Quality

COILED REBAR



Coiled steel rebar designed for easy handling, transportation and efficient on-site installation. Widely used in construction and engineering projects.

GRADES	SIZES (DIAMETER)
HRB400E	6, 8, 10, 12, 14 mm
HRB500E	6, 8, 10, 12, 14 mm

- 
Easy to Transport
- 
Efficient Installation
- 
High Strength & Durability
- 
Cost Effective

STANDARDS



GB
Complies with
GB/T 1499.2



ASTM
Complies with
ASTM A615 / A706

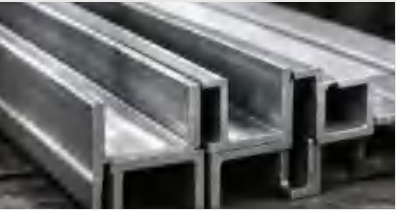
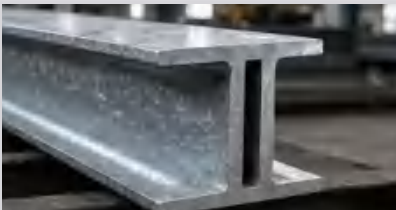


BS
Complies with
BS 4449

STEEL PROFILES & SECTIONS

HIGH PERFORMANCE. GLOBAL STANDARDS. INDUSTRIAL STRENGTH.



MATERIAL / SECTION	I-BEAM (W / S / HP)	U-CHANNEL (C-CHANNEL)	ANGLE BAR (EQUAL / UNEQUAL)
STAINLESS STEEL (SS)			
CARBON STEEL (CS)			
ALUMINUM (AL)			
GALVANIZED STEEL (GI)			

MATERIAL GRADES & STANDARDS

MATERIAL	ASTM / ASME	EN	JIS
STAINLESS STEEL (SS)	A240 / A276, 304 / 304L, 316 / 316L	EN 10088, 1.4301 / 1.4307, 1.4401 / 1.4404	JIS G4303, SUS304, SUS316
CARBON STEEL (CS)	A36 / A572, A992 / A594	EN 10025, S235JR / S355JR	SS400 / SM400A, SM490A
ALUMINUM (AL)	6061 / 6063, 6082	EN 755, EN 573-3	A6061S, A6063S
GALVANIZED STEEL (GI)	A653 / A123, (Z275 / Z350)	EN 10346, DX51D+Z	SGCC / SGHC, (Z275 / Z350)

STANDARD DIMENSIONS

SECTION	PARAMETER	RANGE (mm)		STANDARD LENGTH (m)
		MIN	MAX	
I-BEAM	Height (H)	100	600	6 / 9 / 12
	Flange Width (B)	50	300	
	Web Thickness (t1)	4.5	16	
U-CHANNEL	Height (H)	50	300	6 / 9 / 12
	Flange Width (B)	25	100	
	Web Thickness (t)	3.0	10	
ANGLE BAR	Equal Size (A)	20	200	6 / 9 / 12
	Unequal Size (A × B)	25 × 16	200 × 100	
	Thickness (t)	3.0	20	

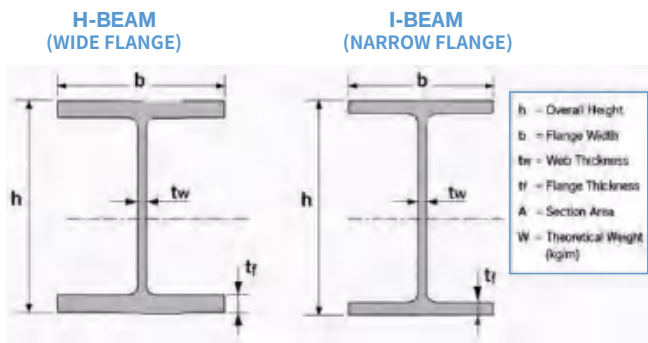
Note: Other sizes and grades available upon request.

STRUCTURAL BEAMS: H-BEAM & I-BEAM SPECIFICATIONS

CROSS-SECTION DIAGRAMS

APPLICABLE STANDARDS COMPARISON

38



Standard	Region	Designation System	Applicable Sections
GB/T 11263-2017	China	HEA, HEB, IPE, W-Beam	Hot-rolled H/I beams
JIS G 3192:2016	Japan	H-Beam, I-Beam (100-900)	Hot-rolled structural steel shapes
ASTM A6 / A6M-22	USA	W Shapes (W, M, S, HP)	Wide flange shapes
EN 10034:1993	Europe	HEA, HEB, IPE	Universal beams

Note: Dimensions are nominal values. Unit weight calculated based on steel density 7,850 kg/m³.

TABLE 1: H-BEAM (HEA/HEB/IPE/W-BEAM) DIMENSIONS & PROPERTIES

Nominal Size (h) mm	DIMENSIONS (mm)						Section Area A (cm ²)	Theoretical Weight (kg/m)			
	Height h	Width b	Web Thickness tw		Flange Thickness tf			GB/T 11263	JIS G3192	ASTM A6	EN 10034
			(HEA/IPE)	(HEB/W)	(HEA/IPE)	(HEB/W)					
100	96	100	5.0	6.0	8.0	10.0	16.90	13.3	13.4	13.0 (W4x13)	13.2
125	120	125	5.5	6.5	8.5	11.0	23.60	18.5	18.6	18.6 (W5x19)	18.4
150	144	150	6.0	7.0	9.0	12.0	31.90	25.0	25.1	25.1 (W6x25)	24.8
175	168	175	6.0	7.5	9.5	13.0	40.50	31.8	31.8	31.7 (W7x32)	31.4
200	192	200	6.5	8.0	10.0	14.0	50.30	39.5	39.7	39.5 (W8x40)	39.1
225	216	225	6.5	8.5	10.5	15.0	60.30	47.4	47.6	48.0 (W9x48)	47.0
250	240	250	7.0	9.0	11.0	11.0	71.20	55.8	56.0	57.1 (W10x54)	55.2
300	288	300	7.5	10.0	12.0	17.0	88.50	69.4	69.9	72.6 (W12x72)	68.6
350	336	300	8.0	11.0	13.0	19.0	103.00	80.8	81.6	84.8 (W14x90)	79.7
400	384	300	8.0	12.0	14.0	20.5	117.00	91.7	92.4	97.3 (W16x100)	90.3
450	432	300	9.0	14.0	14.0	22.0	134.00	105.0	105.8	112.1 (W18x110)	103.3
500	480	300	10.0	16.0	16.0	24.0	153.00	120.0	121.0	126.7 (W21x122)	118.2
550	528	300	11.0	17.0	17.0	26.0	171.00	134.0	135.3	137.9 (W24x131)	132.6
600	576	300	12.0	19.0	19.0	28.0	190.00	149.0	150.7	151.9 (W27x146)	147.1
650	624	300	13.0	20.0	20.0	30.0	210.00	165.0	167.0	165.6 (W30x150)	163.1
700	672	300	14.0	22.0	21.0	32.0	231.00	181.0	183.2	179.6 (W33x152)	179.0
800	768	300	15.0	24.0	22.0	35.0	265.00	208.0	210.6	203.2 (W36x170)	204.3
900	864	300	16.0	26.0	24.0	38.0	303.00	238.0	240.9	228.0 (W40x199)	232.4

TABLE 2: STANDARD I-BEAM (IPN/S-BEAM) DIMENSIONS & PROPERTIES

Nominal Size (h) mm	DIMENSIONS (mm)				Section Area A (cm²)	Theoretical Weight (kg/m)			
	Height h	Width b	Web Thickness tw	Flange Thickness tf		GB/T 11263 (IPE)	JIS G3192 (I-BEAM)	ASTM A6 (S-SHAPES)	EN 10034 (IPE)
100	100	55	4.1	5.7	10.30	8.1	8.2	7.7 (S4x7.7)	8.1
125	125	65	4.4	6.1	13.30	10.4	10.6	9.8 (S5x10)	10.3
150	150	75	4.7	6.4	16.80	13.2	13.4	12.2 (S6x12.5)	13.1
175	175	90	5.1	6.7	21.60	17.0	17.2	15.8 (S7x15.3)	16.9
200	200	100	5.4	7.0	26.80	21.1	21.4	19.9 (S8x18.4)	20.9
225	225	110	5.8	7.4	32.60	25.6	25.9	24.0 (S9x21.8)	25.3
250	250	115	6.2	7.8	38.80	30.5	30.9	28.6 (S10x25.4)	30.1
300	300	135	6.6	8.4	50.60	39.8	40.3	36.6 (S12x31.8)	39.3
350	350	150	7.0	9.0	63.80	50.1	50.6	46.5 (S14x38.6)	49.5
400	400	160	7.5	9.5	77.60	60.9	61.6	55.3 (S16x46.1)	60.1
450	450	170	8.0	10.1	93.60	73.6	74.4	64.6 (S18x53.6)	72.6
500	500	180	8.6	10.7	110.00	86.3	87.3	73.0 (S20x60.7)	85.4
550	550	190	9.1	11.4	128.00	100.0	101.1	82.8 (S22x68.9)	98.8
600	600	200	9.6	12.0	147.00	115.0	116.2	91.6 (S24x76.1)	113.5
650	650	210	10.2	12.7	167.00	131.0	132.4	100.2 (S26x84.1)	129.2
700	700	220	10.9	13.4	188.00	147.0	148.6	109.0 (S28x92.4)	145.4
800	800	250	12.5	15.0	236.00	186.0	187.9	133.0 (S31x101)	184.6
900	900	300	13.5	16.0	298.00	234.0	236.4	160.0 (S35x122)	232.1

GENERAL NOTES

- All dimensions in millimeters (mm).
- Tolerances comply with respective applicable standards.
- Dimensions are nominal; check latest standard for details.
- Other sizes and special sections available upon request.

MATERIAL & SUPPLY

- Material: Carbon Structural Steel (e.g., Q235B, S235JR, A36, SS400)
- Length: 6m, 9m, 12m or as required
- Surface: Mill finish or as specified
- Supply Condition: Hot-rolled

APPLICATIONS



Steel Structures



Buildings



Bridges



Industrial Equipment

DENSITY REFERENCE

Steel Density: 7,850 kg/m³
(Used for theoretical weight calculation)





U-CHANNEL (UPN / PFC)

C-CHANNEL

ANGLE BAR (L-PROFILE)

1.EQUAL ANGLE

2.UNEQUAL

1. U-CHANNEL (UPN/PFC) & C-CHANNEL SPECIFICATIONS

Nominal Size (h) mm	U-CHANNEL (UPN / PFC)																C-CHANNEL							
	GB/T 11263 (UPN)				JIS G 3192 (PFC)				ASTM A36 (UNP)				EN 10279 (PFC)				GB/T 6728 (C-Channel)				ASTM A36 (C-Channel)			
	h (mm)	b (mm)	tw/tf (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	tw/tf (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	tw/tf (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	tw/tf (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	tw/tf (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	tw/tf (mm)	Theoretical Weight(kg/m)
80	80	45	6.0/8.0	8.64	75	40	5.0/7.0	7.30	76.2	38.1	4.8/7.6	6.84	80	45	5.0/7.5	7.90	80	40	4.5/7.0	5.42	76.2	38.1	4.5/6.4	5.59
100	100	50	6.0/8.5	10.6	100	50	6.0/7.5	8.59	101.6	50.8	4.8/7.9	9.31	100	50	5.0/8.0	10.10	100	50	4.5/7.5	6.93	101.6	50.8	4.8/7.9	7.66
120	120	55	6.5/9.0	13.40	125	65	6.0/8.0	11.66	127.0	53.3	4.8/8.4	11.40	120	55	5.0/8.5	12.20	120	55	5.0/8.0	8.64	127.0	53.3	4.8/8.4	9.08
140	140	60	7.0/10.0	16.70	150	75	6.5/9.5	14.66	152.4	58.4	5.6/8.9	14.70	140	60	5.5/9.5	15.20	140	60	5.0/8.5	10.30	152.4	58.4	5.6/8.9	10.80
160	160	65	7.5/10.5	20.30	175	75	7.0/10.0	17.90	152.4	63.5	5.6/9.5	17.90	160	65	5.5/9.5	18.30	160	65	5.5/9.0	12.20	165.1	63.5	5.6/9.5	12.70
200	180	70	8.0/11.0	23.90	200	80	7.5/11.0	21.30	203.2	71.4	6.4/10.2	22.30	180	70	6.0/10.0	21.70	180	70	5.5/9.5	14.30	177.8	71.4	6.4/10.2	15.10
250	200	75	8.5/11.5	27.60	200	90	8.0/12.0	24.90	203.2	76.2	6.4/10.9	25.30	200	75	6.0/10.5	24.60	200	75	6.0/10.5	16.20	203.2	76.2	6.4/10.9	17.00
300	250	90	9.0/13.0	38.60	250	90	9.0/13.0	34.60	254.0	89.0	7.1/12.7	36.10	250	90	6.5/12.5	33.60	250	80	6.0/10.5	20.80	254.0	88.9	7.1/12.7	21.80
300	300	100	9.5/15.0	48.60	300	100	9.5/15.0	43.80	304.8	101.6	7.6/14.2	45.10	300	100	7.0/13.5	42.20	300	85	6.5/11.0	24.60	304.8	101.6	7.6/14.2	25.70

Notes: 1. Theoretical weight is calculated based on standard dimensions. 2. Dimensions in mm, weight in kg/m.

2. EQUAL ANGLE BAR (L-PROFILE)

Nominal Size h x b x t (mm)	GB/T 9787 (Unequal Angle)				JIS G 3192 (Unequal Angle)				ASTM A36 (Unequal Angle)				EN 10056-1 (Unequal Angle)			
	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)
20 x 20 x 3	20	20	3	0.89	20	20	3	0.9	19.1	19.1	3.2	0.91	20	20	3	0.88
25 x 25 x 3	25	25	3	1.12	25	25	3	1.16	25.4	25.4	3.2	1.22	25	25	3	1.12
30 x 30 x 3	30	30	3	1.37	30	30	3	1.42	30.5	30.5	3.2	1.45	30	30	3	1.37
40 x 40 x 4	40	40	4	2.42	40	40	4	2.50	38.1	38.1	4.8	2.73	40	40	4	2.42
50 x 50 x 5	50	50	5	3.77	50	50	5	3.90	50.8	50.8	4.8	3.91	50	50	5	3.77
63 x 63 x 6	63	63	6	5.72	63	63	6	5.91	63.5	63.5	6.4	6.12	60	60	6	5.42
75 x 75 x 7	75	75	7	7.96	75	75	7	8.20	76.2	76.2	7.1	8.60	70	70	7	7.38
90 x 90 x 8	90	90	8	10.90	90	90	8	11.30	88.9	88.9	7.9	11.30	80	80	8	9.80
100 x 100 x 10	100	100	10	15.10	100	100	10	15.60	101.6	101.6	9.5	16.20	100	100	10	15.00
125 x 125 x 12	125	125	12	22.60	125	125	12	23.40	127.0	127.0	11.1	24.30	120	120	12	21.60

3. UNEQUAL ANGLE BAR (L-PROFILE)

Nominal Size h x b x t (mm)	GB/T 9787 (Unequal Angle)				JIS G 3192 (Unequal Angle)				ASTM A36 (Unequal Angle)				EN 10056-1 (Unequal Angle)			
	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)	h (mm)	b (mm)	t (mm)	Theoretical Weight(kg/m)
25 x 16 x 3	25	16	3	0.98	25	15	3	0.95	25	15.9	3.2	1.00	25	15	3	0.96
32 x 25 x 3	32	20	3	1.26	30	20	3	1.20	31	19.1	3.2	1.27	30	20	3	1.23
40 x 25 x 4	40	25	4	1.93	40	25	4	1.89	38.1	25.4	4.8	2.05	40	25	4	1.90
50 x 32 x 5	50	32	5	2.98	50	30	5	2.87	50.8	31.8	4.8	3.08	50	30	5	2.92
63 x 40 x 6	63	40	6	4.46	65	40	6	4.31	63.5	38.1	6.4	4.74	60	40	6	4.47
75 x 50 x 6	75	50	6	5.36	75	45	6	5.19	76.2	50.8	6.4	5.68	70	50	6	5.36
90 x 56 x 8	90	56	8	7.74	90	56	8	7.50	88.9	55.6	7.9	8.20	80	50	8	7.60
100 x 63 x 8	100	63	8	8.83	100	63	8	8.55	101.6	63.5	7.9	9.35	100	60	8	8.64



WIDELY USED IN

STEEL STRUCTURES, BUILDING CONSTRUCTION, MACHINERY MANUFACTURING, BRIDGES, AND INDUSTRIAL EQUIPMENT.



STANDARDS COMPARISON

GB/T (China) | JIS (Japan) | ASTM (USA) | EN (Europe). Meets international standards for reliable performance and global compatibility.

NOTE

Custom sizes and other standards available upon request.

CUSTOM FABRICATION & SPECIAL SECTIONS

We provide customized solutions to meet diverse project requirements with precision, flexibility, and consistent quality.

SPECIAL PROFILES WE OFFER



T-BAR

Ideal for frameworks, ceiling systems, and structural support applications.



Z-SECTION

Designed for high load-bearing efficiency in purlins, cladding, and structural applications.



HAT SECTION

Commonly used in roof and wall systems for superior strength and easy installation.

CUSTOM PROCESSING



CUTTING

Precision cutting to required lengths and custom dimensions.



DRILLING

Accurate drilling for bolts, fasteners, and assembly requirements.



WELDING

Reliable welding services ensuring strong and durable connections.



SURFACE TREATMENT

Galvanizing, painting, or coating options for enhanced corrosion resistance.

MOQ & DELIVERY LEAD TIME

PRODUCT TYPE		MOQ	DELIVERY LEAD TIME
	STANDARD PROFILES	5 TONS	7 – 10 WORKING DAYS
	SPECIAL SECTIONS	10 TONS	10 – 15 WORKING DAYS
	CUSTOM FABRICATION	20 TONS	15 – 20 WORKING DAYS

GALVANIZED STEEL OVERVIEW

41

SUPERIOR PROTECTION • EXCEPTIONAL PERFORMANCE • BUILT TO LAST

GI (HOT-DIP GALVANIZED)

Coated with pure zinc through the hot-dip process, offering excellent corrosion resistance and formability.

KEY FEATURES

- Excellent corrosion protection
- Good formability and weldability
- Cost-effective and widely used

COMMON GRADE

GB: Q195, Q235, S250GD.
JIS: SGCC, SGC340, SGC440 •
ASTM: CS Type A/B, SS Grade 33/50/80
EN: DX51D, DX52D, DX54D, S280GD,
S350GD, S550GD

GL (GALVALUME)

Aluminum-zinc alloy coated steel with outstanding heat resistance and corrosion performance.

KEY FEATURES

- High heat reflectivity and resistance
- Superior corrosion resistance
- Excellent surface appearance

COMMON GRADE

GB: TDC51D, TS250GD, TS550GD
JIS: SGLCC, SGLC440, SGLC570
ASTM: CS Type A/B, SS Grade 33/50/80
EN: DX51D+AZ, DX53D+AZ, S350GD+AZ,
S550GD+AZ

ZAM (ZINC-ALUMINUM-MAGNESIUM)

Advanced alloy-coated steel with superior corrosion resistance, self-healing properties and longer service life.

KEY FEATURES

- Excellent corrosion resistance
- Self-healing protection at cut edges
- Longer service life in harsh environments

COMMON GRADE

SGC340, SGC440, SGC570, DX51D+ZM,
DX53D+ZM, S250GD+ZM, S350GD+ZM,
S450GD+ZM, S550GD+ZM
BMM series

GALVANIZED SURFACE COMPARISON



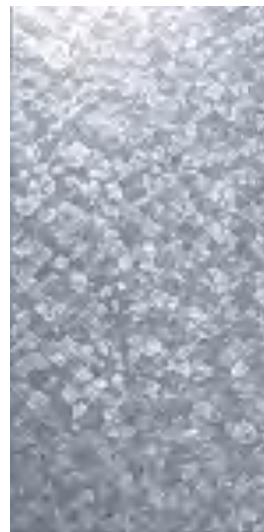
ZERO SPANGLE

Smooth, uniform surface with no visible spangle. Ideal for painting and high-end applications requiring a consistent appearance.



SMALL SPANGLE

Fine and subtle spangle pattern with a smooth finish. Commonly used for general purposes with good appearance requirements.



REGULAR SPANGLE

Standard spangle pattern with medium-sized crystals. Widely used in construction, appliances, and general fabrication.



LARGE SPANGLE

Large and distinct spangle pattern. Suitable for applications where appearance is less critical.

ALUZINC SURFACE



Aluzinc is an aluminum-zinc alloy coated steel with a unique, fine crystalline surface. The coating provides excellent corrosion resistance, heat reflectivity, and durability, making it ideal for roofing, cladding, and building materials.



EXCELLENT CORROSION
RESISTANCE



HIGH HEAT
REFLECTIVITY



LONG SERVICE LIFE
AND DURABILITY

WIDE RANGE OF APPLICATIONS



BUILDING &
CONSTRUCTION



HOME APPLIANCES
& ELECTRICAL



HVAC & DUCTING
SYSTEMS



ROOFING &
CLADDING



AUTOMOTIVE
INDUSTRY



INDUSTRIAL
EQUIPMENT



CORROSION
RESISTANT



HIGH
STRENGTH



PRECISION
ENGINEERED



CONSISTENT
QUALITY



SUSTAINABLE
MATERIAL

GALVANIZED COILS, SHEETS & PIPES



CORROSION RESISTANT



PRECISION ENGINEERED

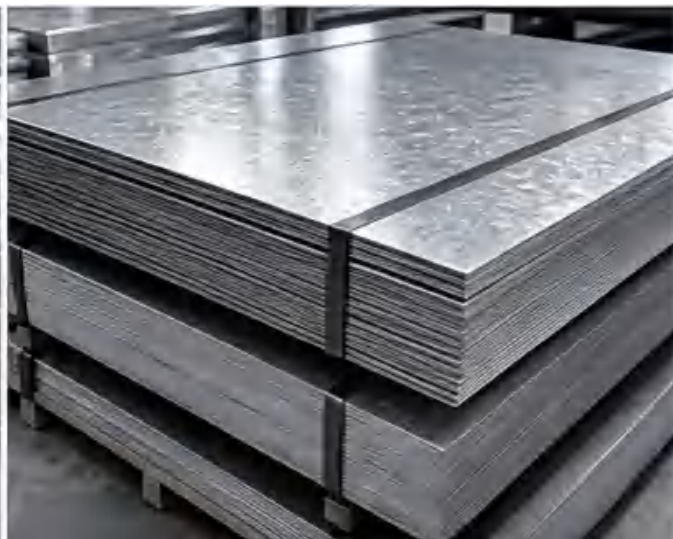


BUILT TO LAST



SUSTAINABLE MATERIAL

GALVANIZED COILS & SHEETS



 PRODUCT	 THICKNESS	 WIDTH	 COATING (ZINC)
Galvanized Coils & Sheets	0.12 – 4.0 mm	600 – 1500 mm	30 – 275 g/m ²

GALVANIZED PIPES



 PRODUCT	 DIAMETER	 WALL THICKNESS
Galvanized Pipes	15 – 219 mm	0.5 – 10 mm



These are general product specifications;
please contact us for any special requirements.

PREPAINTED MATERIALS (PPGI/PPGL)

High Performance • Beautiful Finish • Built to Last

- 

Superior Corrosion Resistance
- 

Vibrant & Long Lasting Colors
- 

Excellent Formability & Workability
- 

Eco-friendly Coating Technology

- 

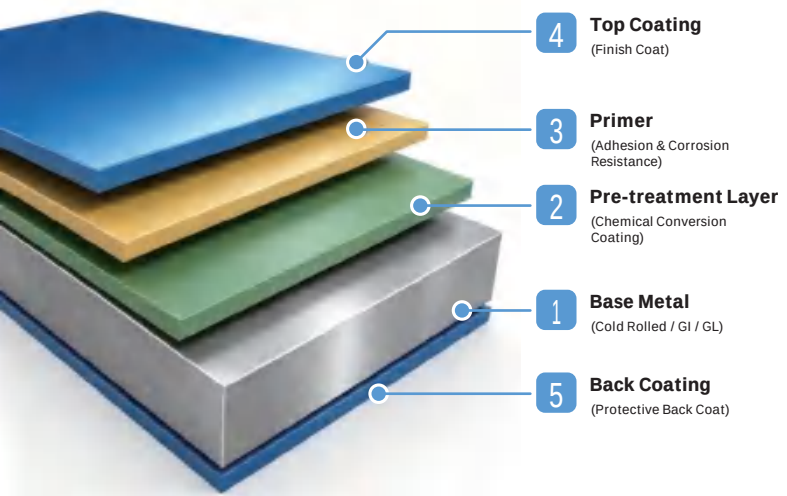
PPGI
Pre-Painted Galvanized Iron
- 

PPGL
Pre-Painted Galvalume Steel
- 

Custom Length & Thickness
- 

Reliable Quality
Worldwide Supply

COATING STRUCTURE



RAL COLOR MATRIX (COMMON COLORS)

RAL 1015	RAL 3000	RAL 3003	RAL 5012	RAL 5015	RAL 5017
RAL 6002	RAL 6005	RAL 6018	RAL 6029	RAL 7001	RAL 7035
RAL 7016	RAL 7037	RAL 8017	RAL 9002	RAL 9003	RAL 9005
RAL 9006	RAL 9007	RAL 9010	RAL 1018	RAL 2004	RAL 8004

Custom colors available upon request.
Other RAL colors can be produced as per requirements.

PPGI VS PPGL CLASSIFICATION

PPGI

Pre-Painted Galvanized Iron



- Base Metal: GI (Hot-dip Galvanized)
- Zinc Coating: 200 – 2275 g/m²
- Good Corrosion Resistance
- Cost-effective Solution
- Widely Used in General Applications

VS

PPGL

Pre-Painted Galvalume Steel



- Base Metal: GL (Galvalume)
- Coating: 55% Al-Zn Alloy
- Superior Corrosion Resistance
- Better Heat Resistance
- Ideal for Harsh Environments

APPLICATIONS

Modern Architecture



- Roofing & Wall Cladding
- Curtain Walls
- Industrial Buildings
- Canopies & Facades

Home Appliances



- Refrigerators
- Washing Machines
- Air Conditioners
- Microwave Ovens

PRODUCTION TO DELIVERY WORKFLOW



1 **Production**
Color Coating Line



2 **Inspection**
Color/Surface Check



3 **Packaging**
Wrapped Color Coils



4 **Storage**
Warehouse Scene



5 **Container Loading**
Loading Coils into Container

SPECIFICATIONS

PPGI/PPGL & ROOFING SHEETS

PPGI COILS



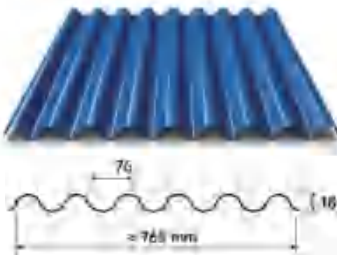
PPGL COILS



SPECIFICATION		DETAILS
	THICKNESS	0.12 – 2.0 MM
	WIDTH	600 – 1250 MM
	ZINC COATING	30 – 275 G/SQM
	PAINT COATING THICKNESS	TOP (FRONT): 15 – 35 μM / BACK (REVERSE): 5 – 25 μM
	COATING TYPE	PE / SMP / HDP / PVDF
	COLOR	RAL COLOR / WOOD GRAIN / STONE GRAIN / CUSTOMIZED
	COIL WEIGHT	3 – 8 MT
	COIL INNER DIAMETER	508 MM / 610 MM

ROOFING SHEET PROFILES

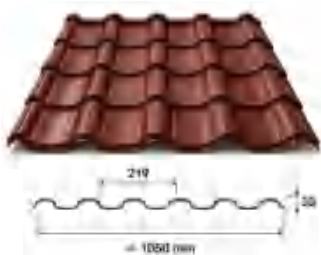
1.CORRUGATED (WAVE)



2.TRAPEZOIDAL (BOX)



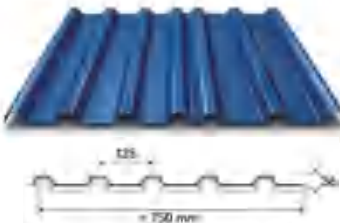
3.GLAZED TILE (ANTIQUE STYLE)



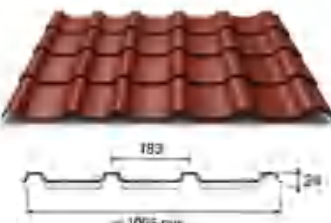
4.STANDING SEAM



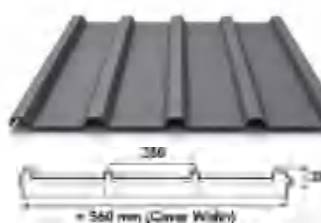
5.T-RIB



6.STEP TILE



7.HIDDEN FIX (CLIP-LOCK)



8.SINUSOIDAL



GRADE STANDARDS



- ASTM A755
- EN 10169
- JIS G3312

DURABILITY & PERFORMANCE



Anti-corrosion

ZINC COATING PROTECTS AGAINST RUST AND HARSH ENVIRONMENTS.

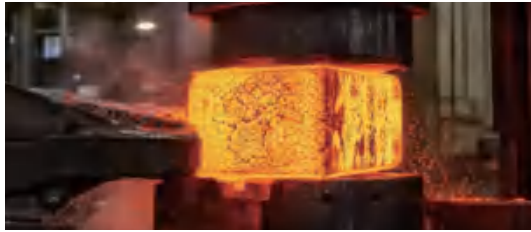


UV Resistance

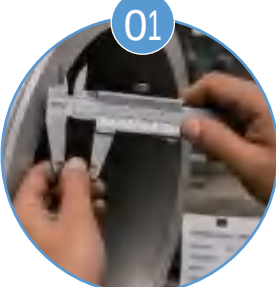
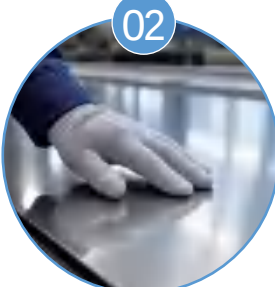
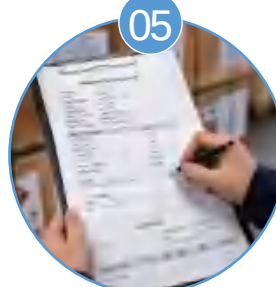
HIGH-QUALITY PAINT COATING ENSURES LONG-LASTING COLOR AND GLOSS.

01	BILLET ROLLING	02	HEAT TREATMENT	03	PICKLING & PASSIVATION	04	LEVELING & CUTTING	05	PACKAGING & STORAGE
									
High-quality billets are rolled to achieve uniform structure and excellent mechanical properties.		Precise heat treatment improves the material strength, hardness and overall performance.		Surface pickling removes oxides and impurities. Passivation enhances corrosion resistance and surface quality.		Precision leveling ensures flatness. Cutting to exact lengths for various industrial needs.		Secure packaging and systematic storage ensure product safety and on-time delivery.	

ADVANCED PROCESSING

	PROCESS	VS.	PRODUCT
01 CNC PROCESSING High-precision CNC machining for complex parts with tight tolerances.			
02 MILLING / TURNING High-efficiency milling and turning for precision cylindrical and threaded parts.			
03 FORGING High-strength forging process delivers excellent grain flow and superior mechanical properties.			

STRICT PRE-SHIPMENT INSPECTION

01 	02 	03 	04 	05 
DIMENSIONAL CHECK All dimensions are strictly measured to ensure compliance with drawings and tolerances.	SURFACE QUALITY Surface finish and appearance are thoroughly inspected to meet quality standards.	PACKAGING REINFORCEMENT Reinforced packaging ensures protection during transportation and prevents damage.	CONTAINER LOADING Professional loading ensures safe stacking, maximized space and secure transport.	FINAL DOCUMENTATION Complete documentation is provided for traceability and a smooth customs clearance.



PREMIUM QUALITY

Consistent quality is our commitment.



ADVANCED EQUIPMENT

Modern technology for high precision and efficiency.



EXPERT TEAM

Skilled professionals driving excellence.

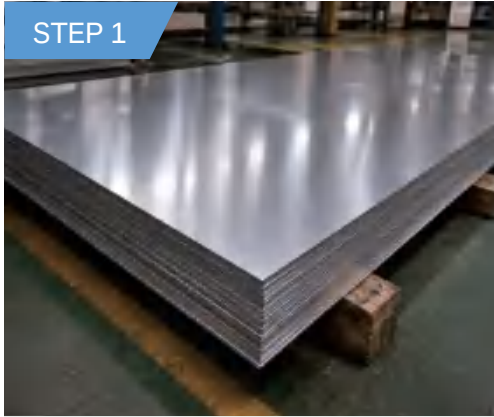


GLOBAL STANDARD

Production meets international standards and customer expectations.

1. STEEL PLATES/SHEET(eg.stainless steel plate)

STEP 1



Bare, bright cold-rolled stainless steel plates

STEP 2



Wrapped in high-quality kraft paper

STEP 3



Secured on a sturdy wooden pallet

2. STEEL PIPE/TUBE(eg.stainless steel pipe)

STEP 1



Bare, polished stainless steel pipe/tube

STEP 2



Bundled with protective ends

STEP 3



Packed into a robust wooden crate

3. STEEL BAR/ROD(eg.stainless steel bar)

STEP 1



Bare stainless steel round bars

STEP 2



Protected and secured with padding

STEP 3



Packed in a heavy-duty wooden box



YUZE METAL LIMITED



Registered Address: Nongshi Road, Xishan District,
Wuxi City, Jiangsu, 214178, China



sales@yuzemetal.com



<https://yuzemetal.com>



+86 133 8618 1669



All rights reserved: YUZE METAL LIMITED

