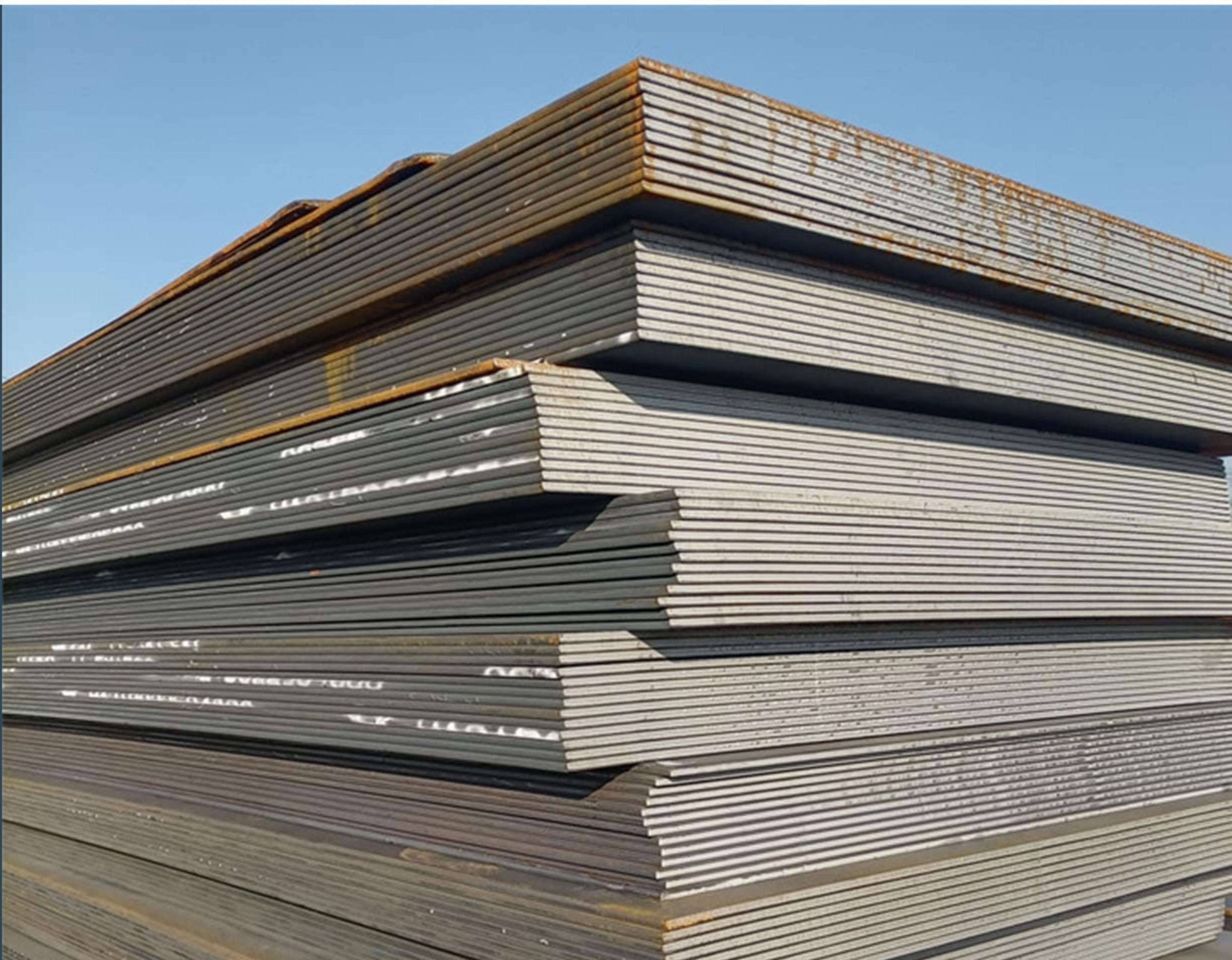


CARBON SHEET & COIL · CARBON PIPE · CARBON ROUND & SQUARE BAR
CARBON FLAT BAR & ANGLE & CHANNEL & H BEAM & REBAR

CARBON

STEEL PRODUCT CATALOGUE



**DINGJIN
STEEL**

PROFESSIONAL MANUFACTURER



We are proud to work closely with industry and academic partners to continually improve our products and services, as a result, we have patented products designed to save you time and money.

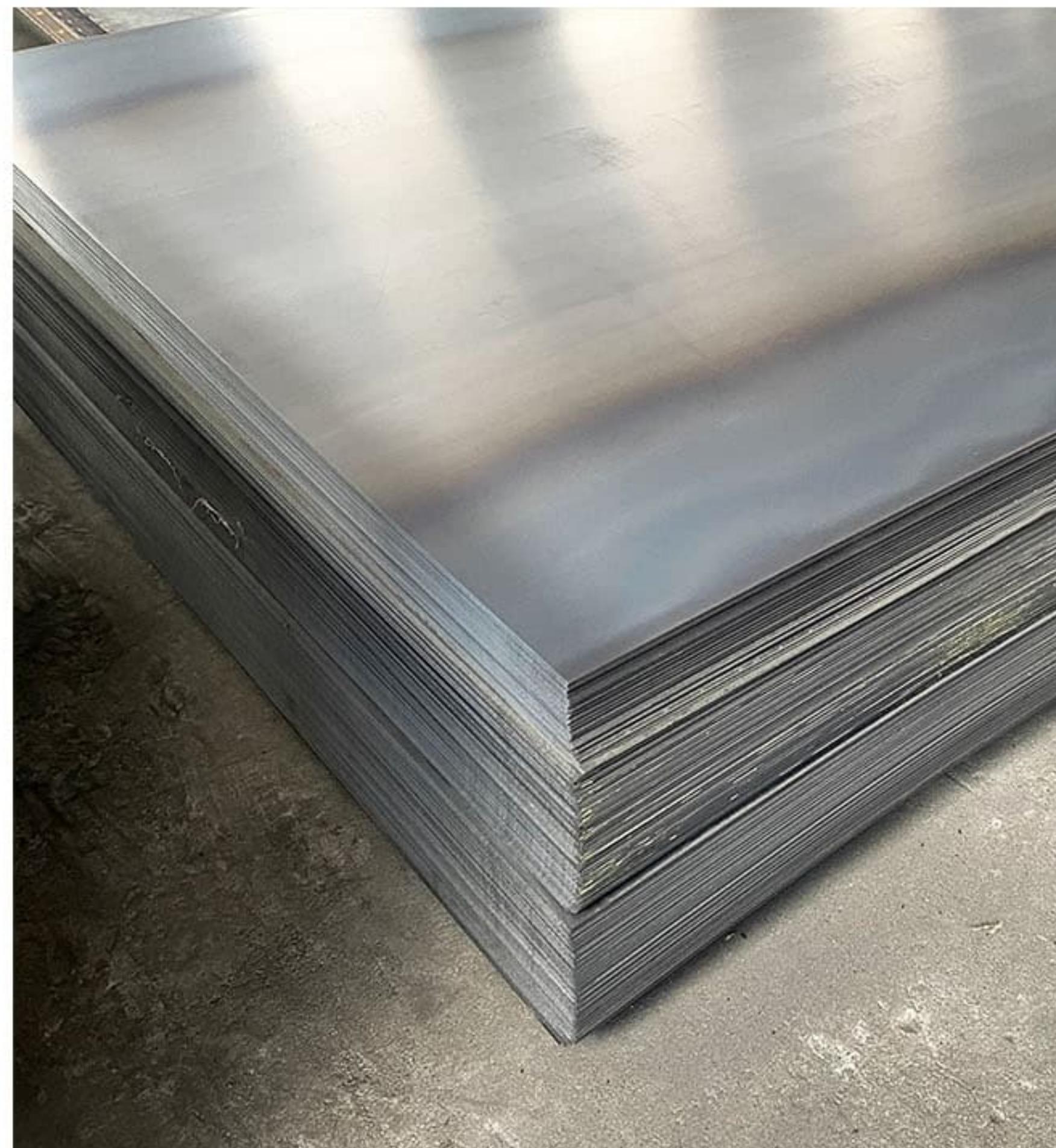
We operate within the scope of ISO 9001: 2015 accredited management system and the raw materials are procured from suppliers in compliance with ASTM, BS EN and DIN standards.

Our products are rigorously inspected to ensure they are within tolerance of our customer's specifications, we work with accredited laboratories for specialised material testing and chemical analysis.

In addition, we use X-ray fluorescence technology to meet our high inspection standards and to ensure that our customers get the best quality products.



CARBON STEEL PLATE/SHEET



Standard	AISI, ASTM, BS, GB
Material	A32, AH32, A36, AH36, DH36, D32, DH32, Q195, Q215, Q235, Q345 SS490, SM400, SM490, SPHC, SPHD, SPHE, SPHF, SEA1002, SEA1006 SEA1008, SEA1010 S25C, S35C, S45C, 65Mn SPHT1, SPHT2, SPH3, SPH4, QstE NM360, NM360L, NM400, NM400L, NM400A, NM450, NM450L, NM450A, NM500A, NM550, NM600, NR360, NR400, MITTA 400F, MITTA 450F, MITTA 500F DILLIDUR400, DILLIDUR500, DILLIDUR400V, DILLIDUR500V, DILLIDUR450V QUARD400, QUARD450, QUARD500 FORA400, FORA500, CREUSABRO4800, CREUSABRO8000 RAEX400, RAEX450, RAEX500
Technology	Cold Rolled, Hot Rolled
Length	1-100mm or customized
Width	600-3000mm or customized.
Thickness	0.1-300mm or customized.
Surface	natural color, iron gray (low carbon plate), brown (special alloy plate, the high carbon plate), partial ochre (weather resistance), with temperature oxidation pattern, than manufacture rough surface

CARBON STEEL COIL & STRIP



Standard	AiSi, ASTM, BS, GB
Material	A32, AH32, A36, AH36, DH36, D32, DH32 Q195 Q215 Q235 Q345 SS490 SM400 SM490 SPHC SPHD SPHE SPHF SEA1002 SEA1006 SEA1008 SEA1010 S25C S35C S45C 65Mn SPHT1 SPHT2 SPH3 SPH4 QstE NM360, NM360L, NM400, NM400L, NM400A, NM450, NM450L, NM450A, NM500A, NM550, NM600, NR360, NR400, MITTA 400F, MITTA 450F, MITTA 500F DILLIDUR400, DILLIDUR500, DILLIDUR400V, DILLIDUR500V, DILLIDUR 450V QUARD400, QUARD450, QUARD500 FORA400, FORA500, CREUSABRO4800, CREUSABRO8000 RAEX400, RAEX450, RAEX500
Technology	Cold Rolled Hot Rolled
Width	600-3000mm or customized.
Thickness	0.1-300mm or customized.
Surface	natural color, iron gray (low carbon plate), brown (special alloy plate, the high carbon plate), partial ochre (weather resistance), with temperature oxidation pattern, than manufacture rough surface
Coil Weight	3-5 Tons

CARBON STEEL PIPE / TUBE



Standard	AiSi, ASTM, BS, GB
Material	A32, AH32, A36, AH36, DH36, D32, DH32 10# 20# 45# Q195 Q215 Q235 Q345 Q235b Q355b SS490 SM400 SM490 SPHC SPHD SPHE SPHF SEA1002 SEA1006 SEA1008 SEA1010 S25C S35C S45C 65Mn SPHT1 SPHT2 SPH3 SPH4 QstE or customized
Technology	Cold Rolled Hot Rolled
Length	1m - 12m or customized
Out Diameter	10-600mm or customized.
Thickness	1mm-200mm or customized.
Surface	natural color, iron gray, threaded, or painted
Shape	round, square

CARBON STEEL BAR / ROD



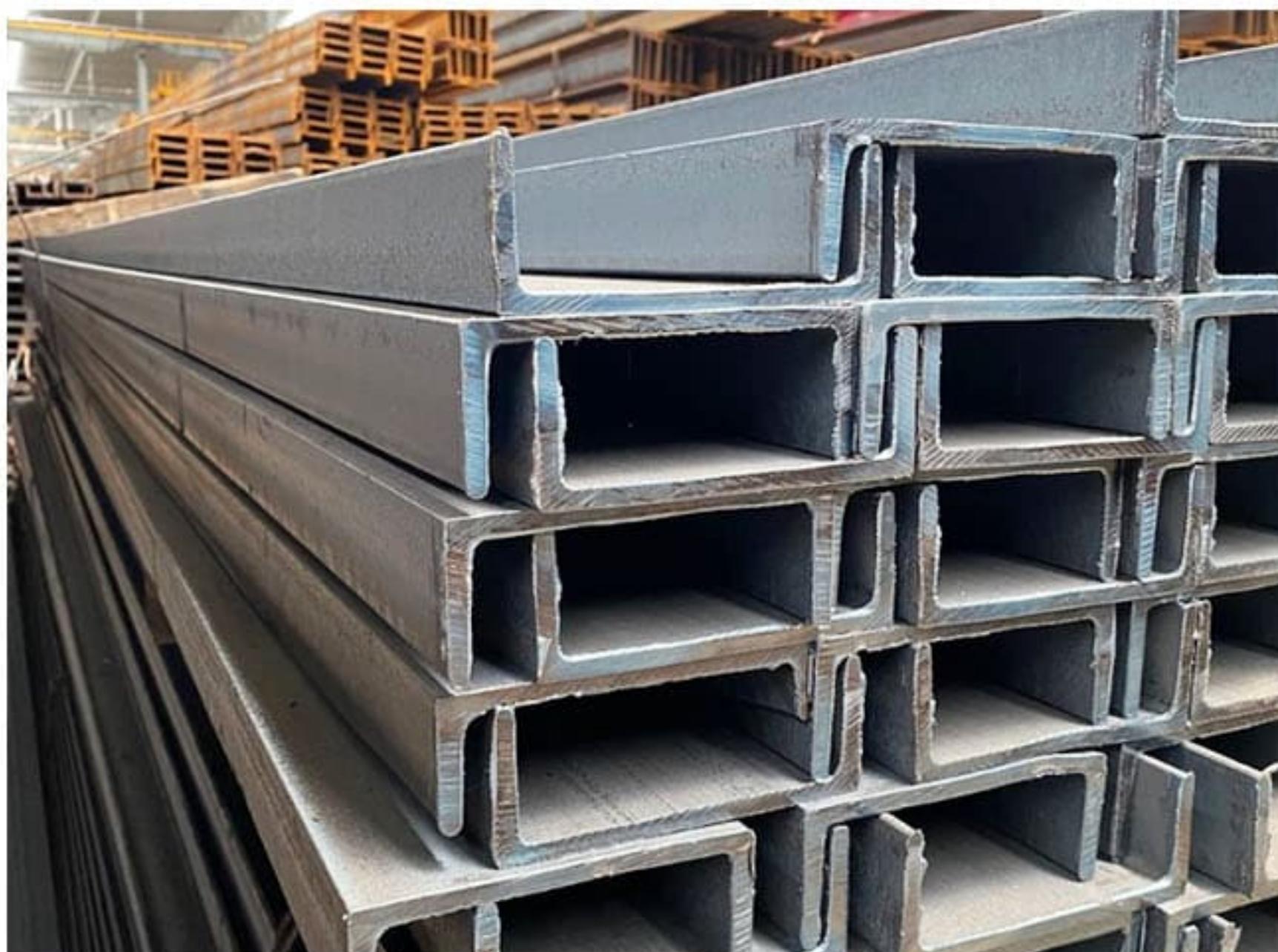
Standard	AiSi, ASTM, BS, GB
Material	A32,AH32,A36,AH36,DH36,D32 DH32 10# 20# 45# Q195 Q215 Q235 Q345 Q235b Q355b SS490 SM400 SM490 SPHC SPHD SPHE SPHF SEA1002 SEA1006 SEA1008 SEA1010 S25C S35C S45C 65Mn SPHT1 SPHT2 SPH3 SPH4 QstE or customized
Technology	Hot Rolled
Length	3000~12000mm or customized
Diameter	10~300mm or customized.
Width	3mm-2000mm or customized.
Surface	natural color,black,mill,polished,brush,galvanized etc
Shape	round, square

CARBON STEEL FLAT BAR



Standard	AiSi, ASTM, BS, GB
Material	A32, AH32, A36, AH36, DH36, D32, DH32 10# 20# 45# Q195 Q215 Q235 Q345 Q235b Q355b SS490 SM400 SM490 SPHC SPHD SPHE SPHF SEA1002 SEA1006 SEA1008 SEA1010 S25C S35C S45C 65Mn SPHT1 SPHT2 SPH3 SPH4 QstE or customized
Technology	Hot Rolled
Length	3000~12000mm or customized
Thickness	2.0~60mm or customized.
Width	3mm-400mm or customized.
Surface	natural color, black, mill, polished, brush, galvanized etc
Shape	flat

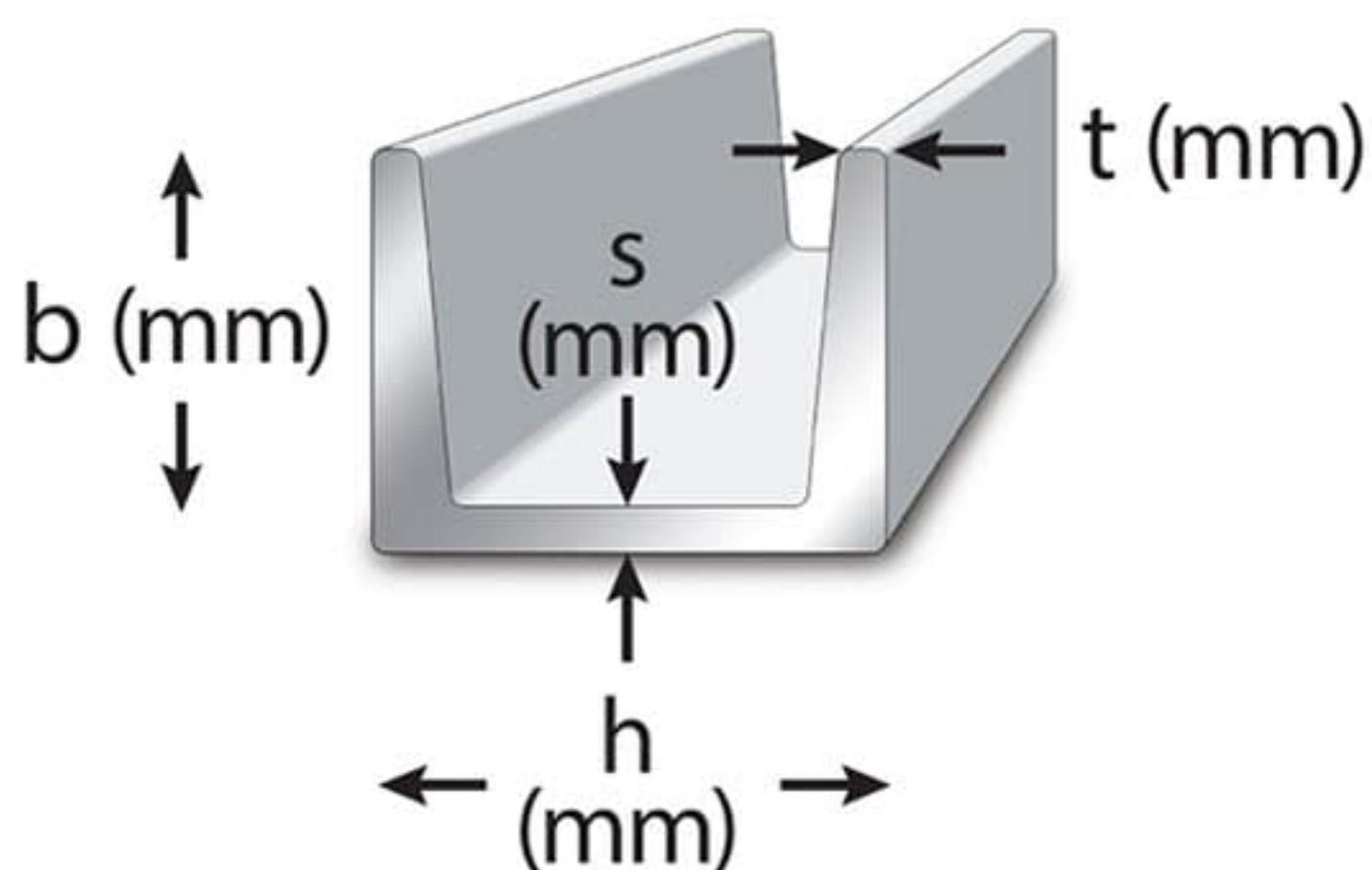
CARBON STEEL CHANNEL



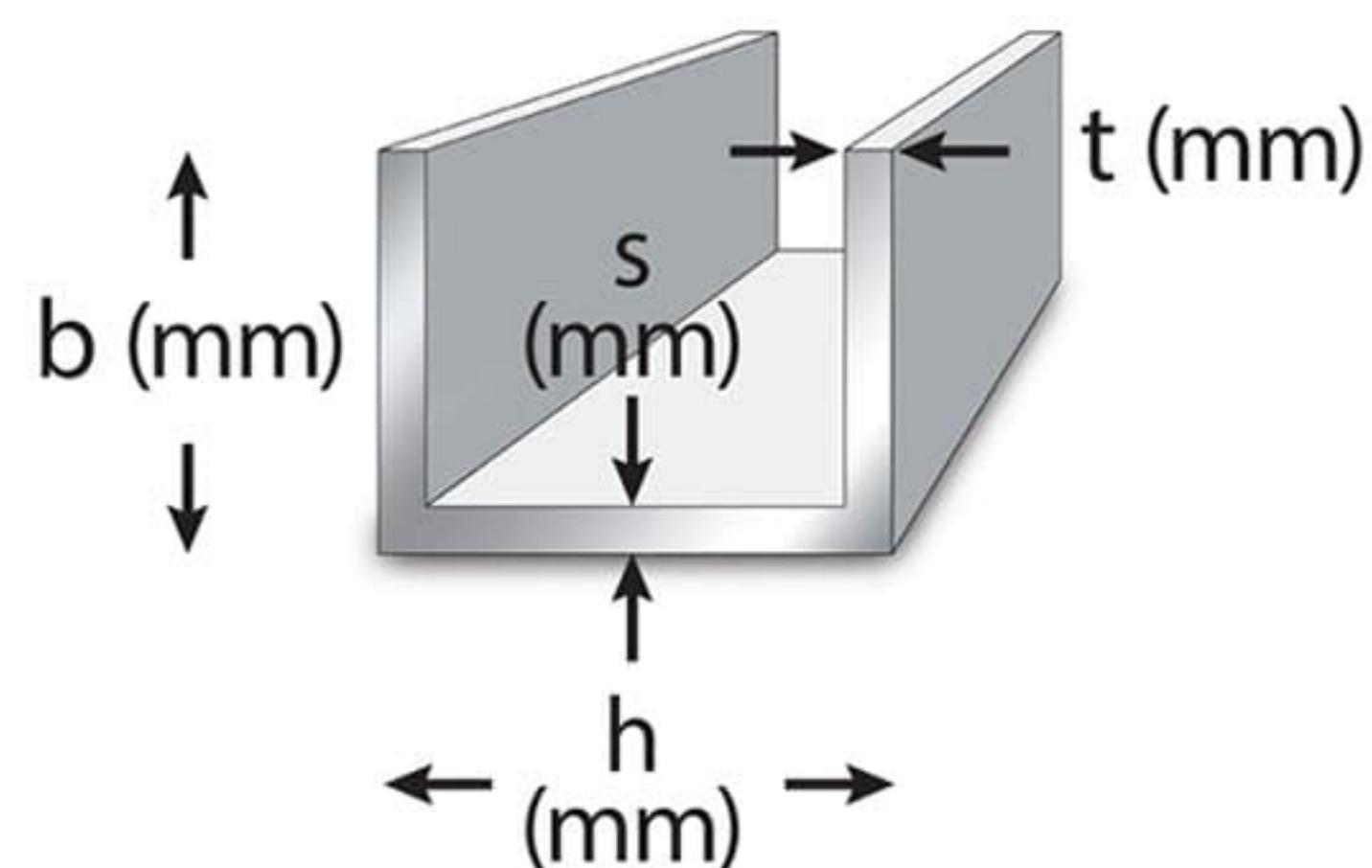
Standard	AiSi, ASTM, BS, GB
Material	A32, AH32, A36, AH36, DH36, D32, DH32 10# 20# 45# Q195 Q215 Q235 Q345 Q235b Q355b SS490 SM400 SM490 SPHC SPHD SPHE SPHF SEA1002 SEA1006 SEA1008 SEA1010 S25C S35C S45C 65Mn SPHT1 SPHT2 SPH3 SPH4 QstE or customized
Technology	Hot Rolled
Length	3000~12000mm or customized
Size	50mm*37mm*4.5mm---400mm*100mm*10mm
Surface	natural color, black, mill, polished, brush, galvanized etc
Shape	U C Channel

CARBON STEEL CHANNEL

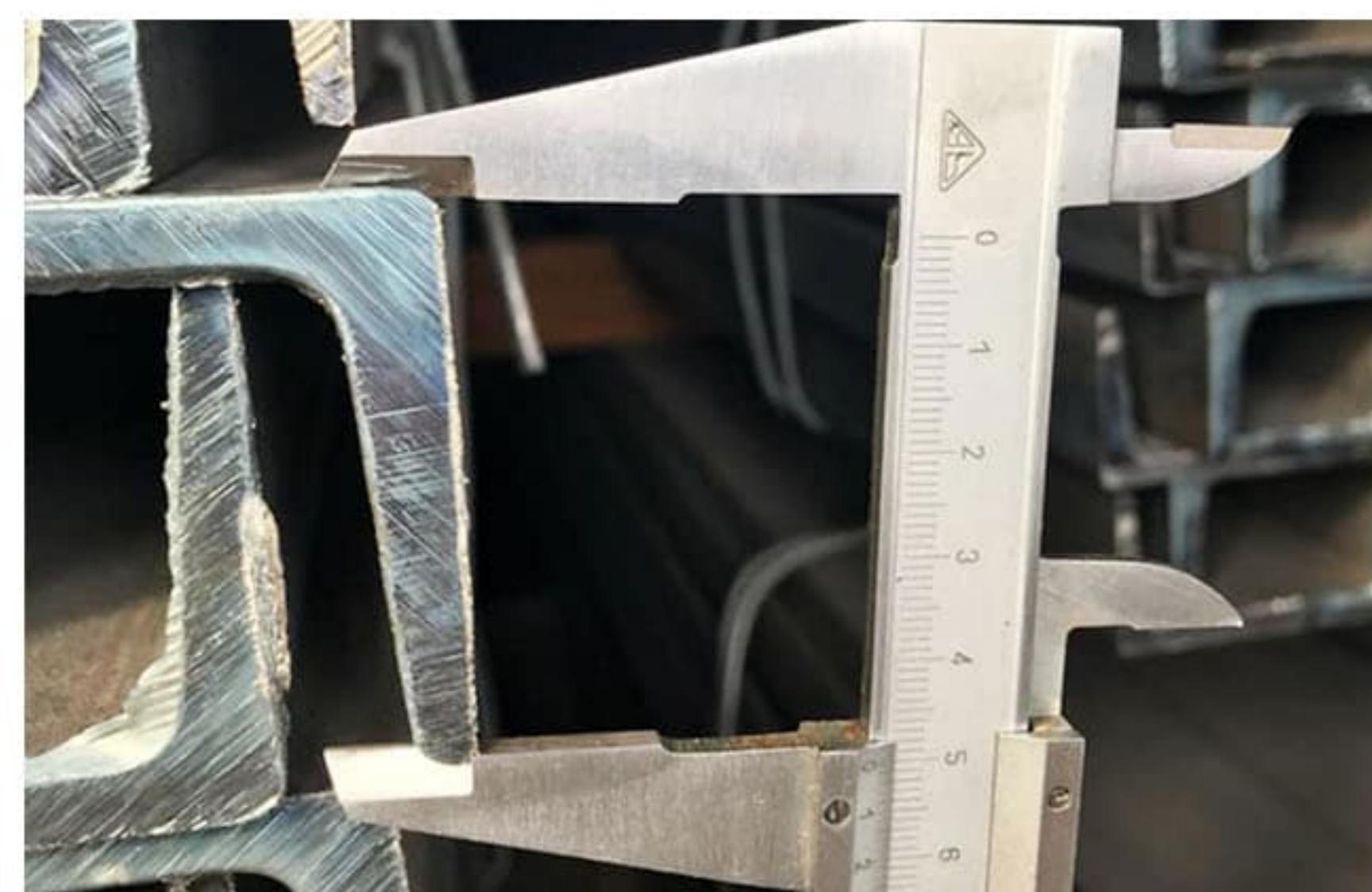
UPN



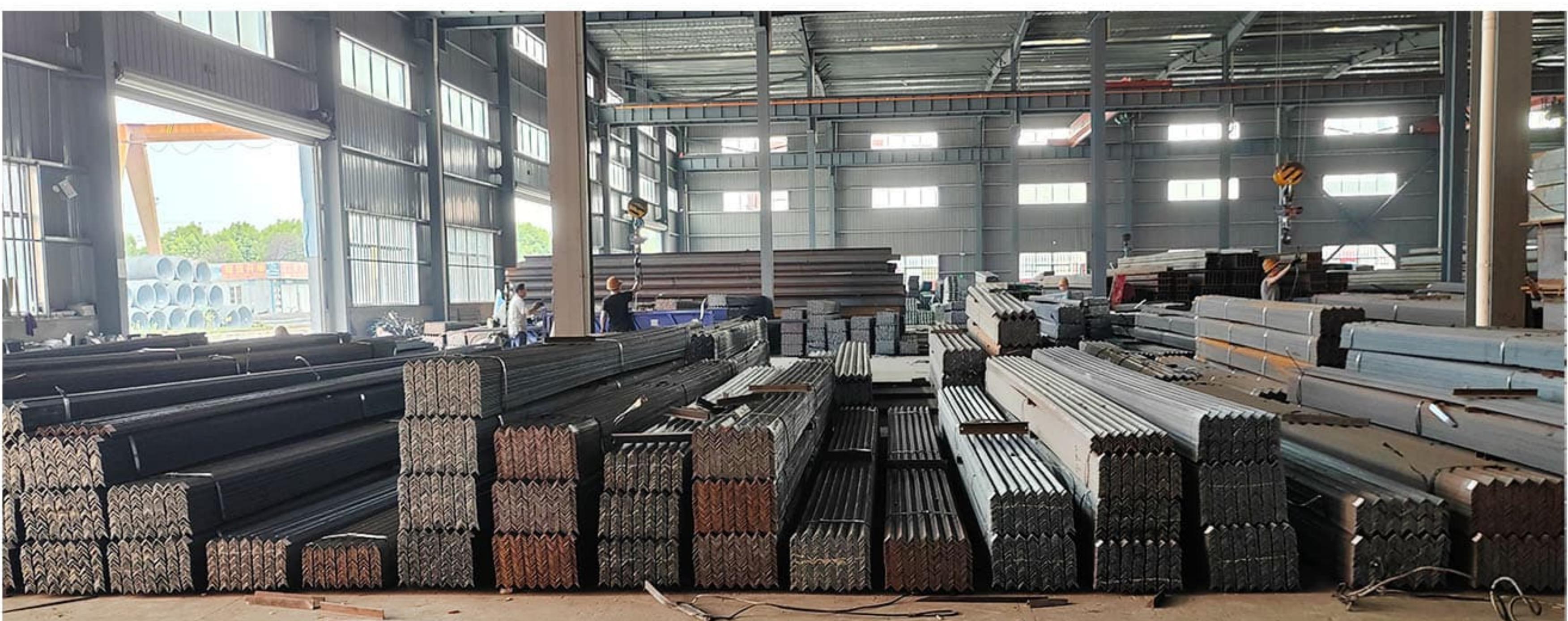
UPE



Size	h(mm)	b(mm)	Thickness(mm)	Density(kg/m)
5#	50	37	4.5	5.438
6.3#	63	40	4.8	6.634
8#	80	43	5	8.045
10#	100	48	5.3	10.007
12#	120	53	5.5	12.059
14A#	140	58	6	14.535
14B#	140	60	8	16.733
16A#	160	63	6.5	17.24
16B#	160	65	8.5	19.752
18A#	180	68	7	20.174
18B#	180	70	9	23
20A#	200	73	7	22.637
20B#	200	75	9	25.777
22A#	220	77	7	24.999
25A#	250	78	7	27.41
25B#	250	80	9	31.335

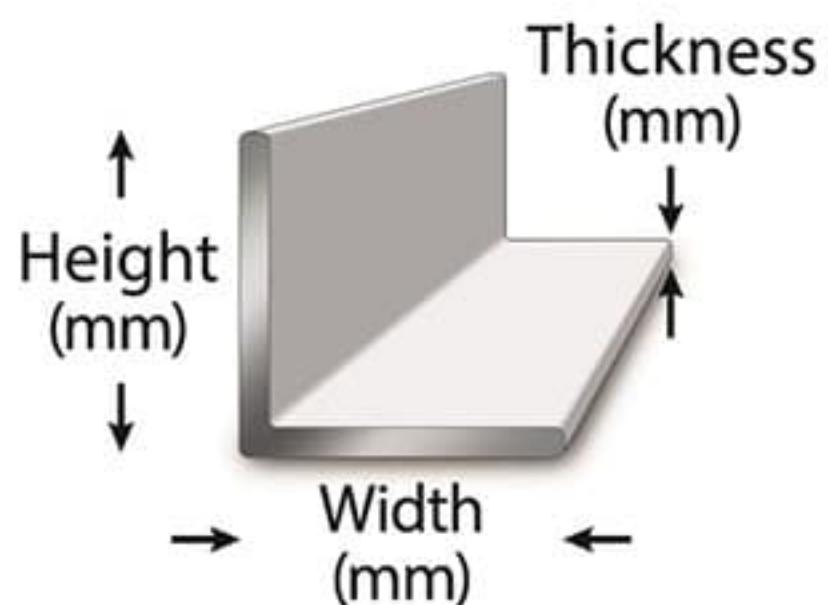


CARBON STEEL ANGLE BAR

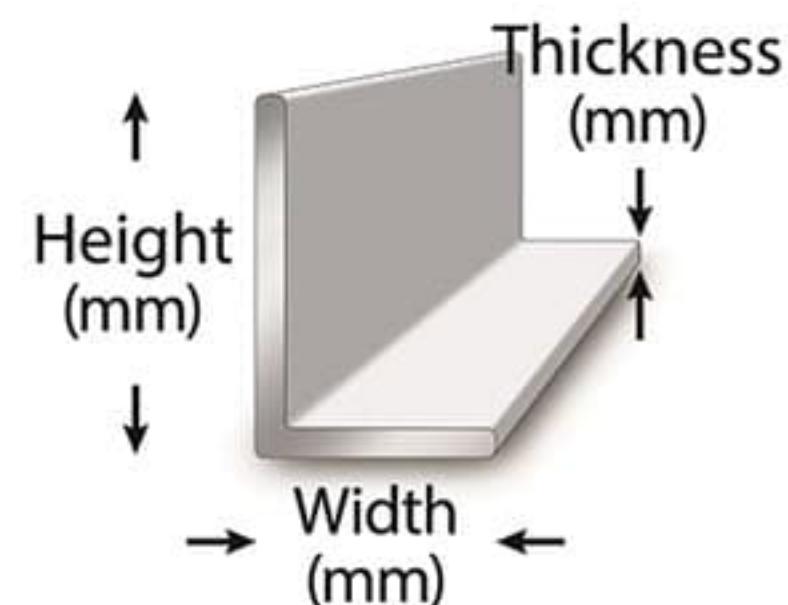


Standard	AiSi, ASTM, BS, GB
Material	A32, AH32, A36, AH36, DH36, D32, DH32 10# 20# 45# Q195 Q215 Q235 Q345 Q235b Q355b SS490 SM400 SM490 SPHC SPHD SPHE SPHF SEA1002 SEA1006 SEA1008 SEA1010 S25C S35C S45C 65Mn SPHT1 SPHT2 SPH3 SPH4 QstE or customized
Technology	Hot Rolled
Length	1000~12000mm or customized
Size	10*10mm-1000*300mm
Thickness	0.5-23mm
Surface	natural color, black, mill, polished, brush, galvanized etc
Shape	angle (equal & unequal)

CARBON STEEL ANGLE BAR



Equal Angle



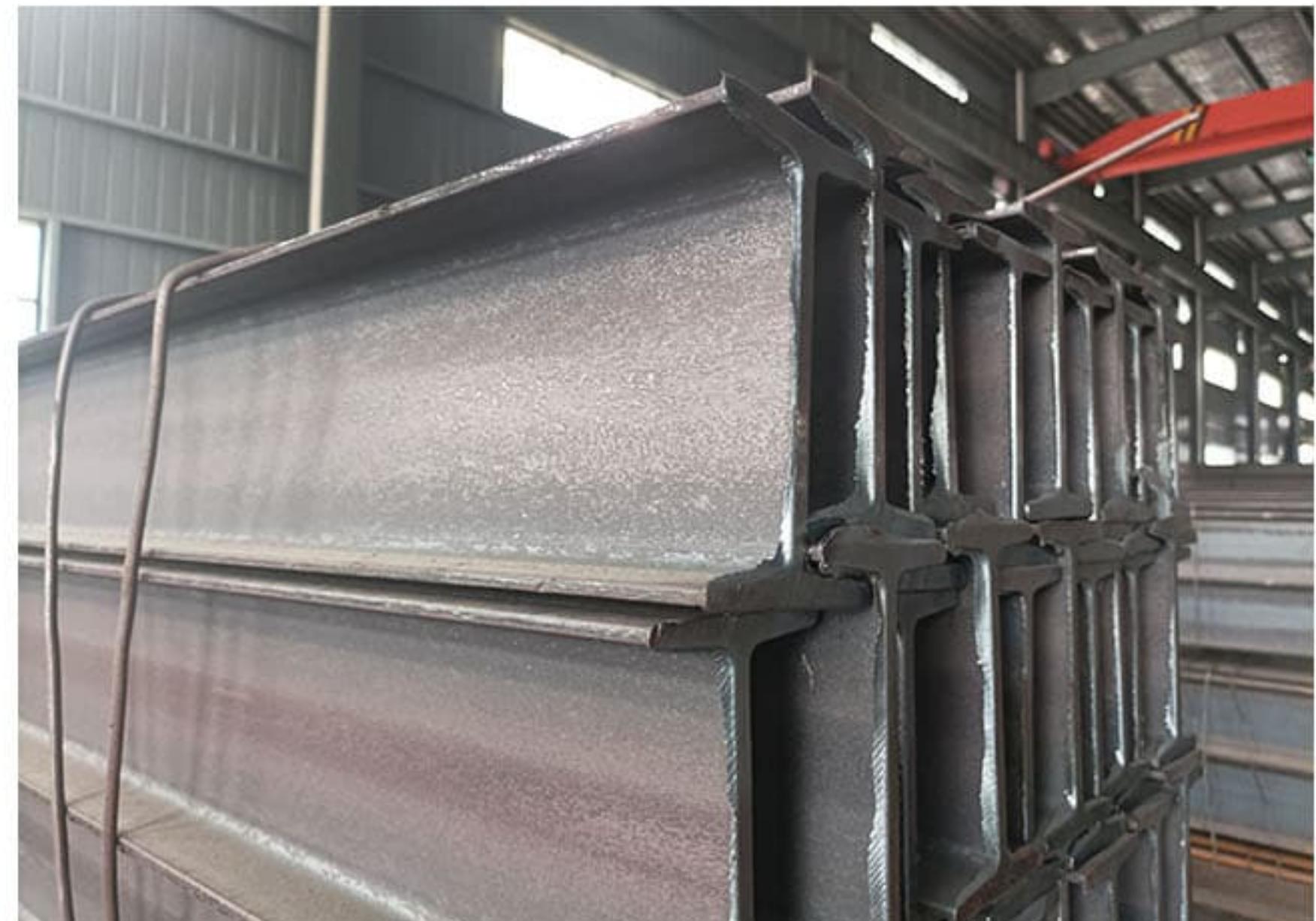
Unequal Angle

Equal steel angle			
Dimension	Weight	Dimension	Weight
dXbXt (mm)	(Kg/m)	dXbXt (mm)	(Kg/m)
20*20*3	0.885	80*80*6	7.32
25*25*3	1.12	80*80*7	8.48
30*30*3	1.36	80*80*8	9.55
30*30*4	1.78	90*90*6	8.25
30*30*5	2.16	90*90*7	9.59
38*38*3	1.72	90*90*8	10.9
38*38*4	2.26	90*90*9	12.2
40*40*3	1.83	90*90*10	13.3
40*40*4	2.41	100*100*6	9.22
40*40*5	2.95	100*100*7	10.7
50*50*3	233	100*100*8	12.1
50*50*4	3.06	100*100*10	14.9
50*50*5	3.77	120*120*8	14.7
50*50*6	4.43	120*120*10	18.2
60*60*5	4.55	120*120*12	21.5
60-60*6	5.41	130*130*9	17.9
65*65*5	5	130*130*10	19.7
65*65*6	5.91	130*130*12	23.4
65*65*8	7.66	150*150*10	22.9
70*70*5	537	150*150*12	27.3
70*70*6	6.38	150*150*15	33.6
70*70*7	735	200*200*15	45.3
75*75*5	5.76	200*200*20	59.7
75*75*6	6.85	200*200*24	71.1
75*75*7	7.94	250*250*25	93.7
75*75*8	8.92	250*250*28	104
75*75*9	9.96	250*250*35	128

Unequal steel angle			
Dimension	Weight	Dimension	Weight
dXbXt (mm)	(Kg/m)	dXbXt (mm)	(Kg/m)
25x16x3	0.912	100x63x8	9.878
32x20x3	1.171	100x63x10	12.142
32x20x4	1.522	100x80x6	8.35
40x25x3	1.484	100x80x7	9.656
40x25x4	1.936	100x80x8	10.946
45x28x3	1.687	100x80x10	13.476
45x28x4	2.203	110x70x6	8.35
50x32x3	1.908	110x70x7	9.656
50x32x4	2.494	110x70x8	10.946
56x36x3	2.153	110x70x10	13.476
56x36x4	2.818	125x80x7	11.066
56x36x5	3.466	125x80x8	12.551
63x40x4	3.185	125x80x10	15.474
63x40x5	3.92	125x80x12	1833
63x40x6	4.638	140x90x8	14.1
70x45x5	4.403	140x90x10	17.475
70x45x6	5.218	140x90x12	20.724
70x45x7	6.011	140x90x14	23.908
75x50x5	4.808	160x100x10	19.872
75x50x6	5.699	160x100x14	27.274
75x50x8	7.431	160x100x16	30.853
75x50x10	9.098	180x110x10	22.273
80x50x5	5.005	180x110x12	26.464
80x50x6	5.935	180x110x14	30.589
80x50x7	6.848	180x110x16	34.649
80x50x8	7.745	200x125x12	29.761
90x56x5	5.661	200x125x14	34.436
90x56x6	6.717	200x125x16	39.045
90x56x8	8.779	200x125x18	43.588
100x63x7	8.722		

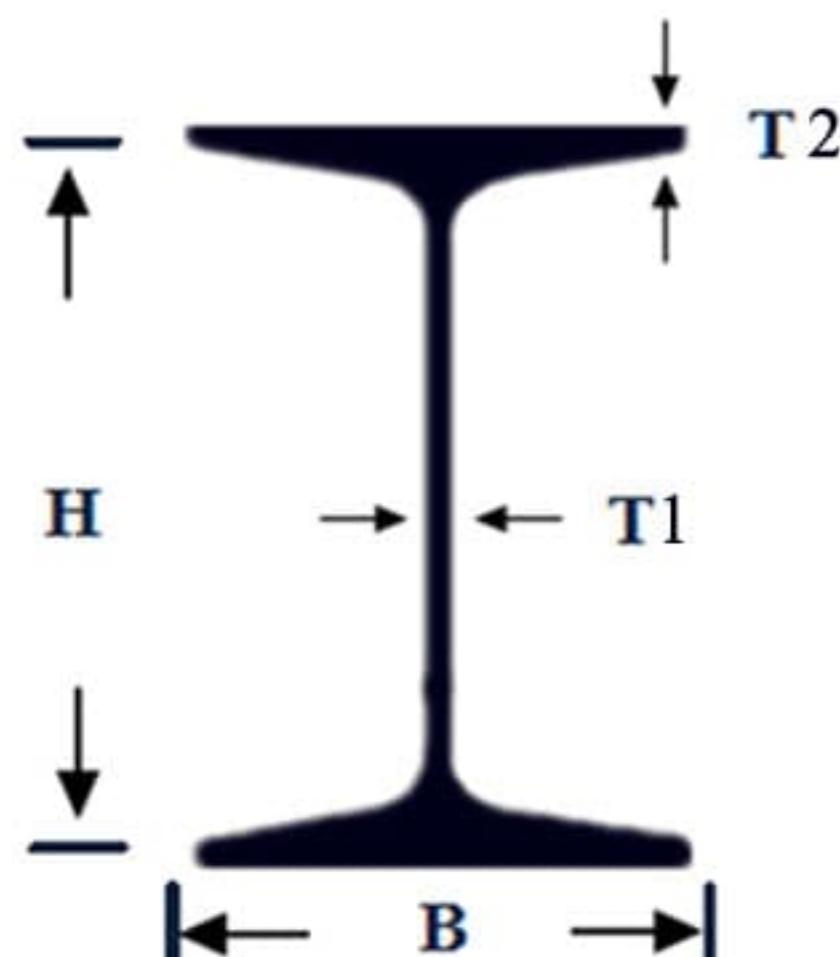


CARBON STEEL H BEAM



Standard	AISI, ASTM, BS, GB
Material	A32, AH32, A36, AH36, DH36, D32, DH32 10# 20# 45# Q195 Q215 Q235 Q345 Q235b Q355b SS490 SM400 SM490 SPHC SPHD SPHE SPHF SEA1002 SEA1006 SEA1008 SEA1010 S25C S35C S45C 65Mn SPHT1 SPHT2 SPH3 SPH4 QstE or customized
Technology	Hot Rolled
Length	1000~12000mm or customized
Size	10*10mm-1000*300mm
Thickness	0.5-23mm
Surface	natural color, black, mill, polished, brush, galvanized etc
Shape	H / I

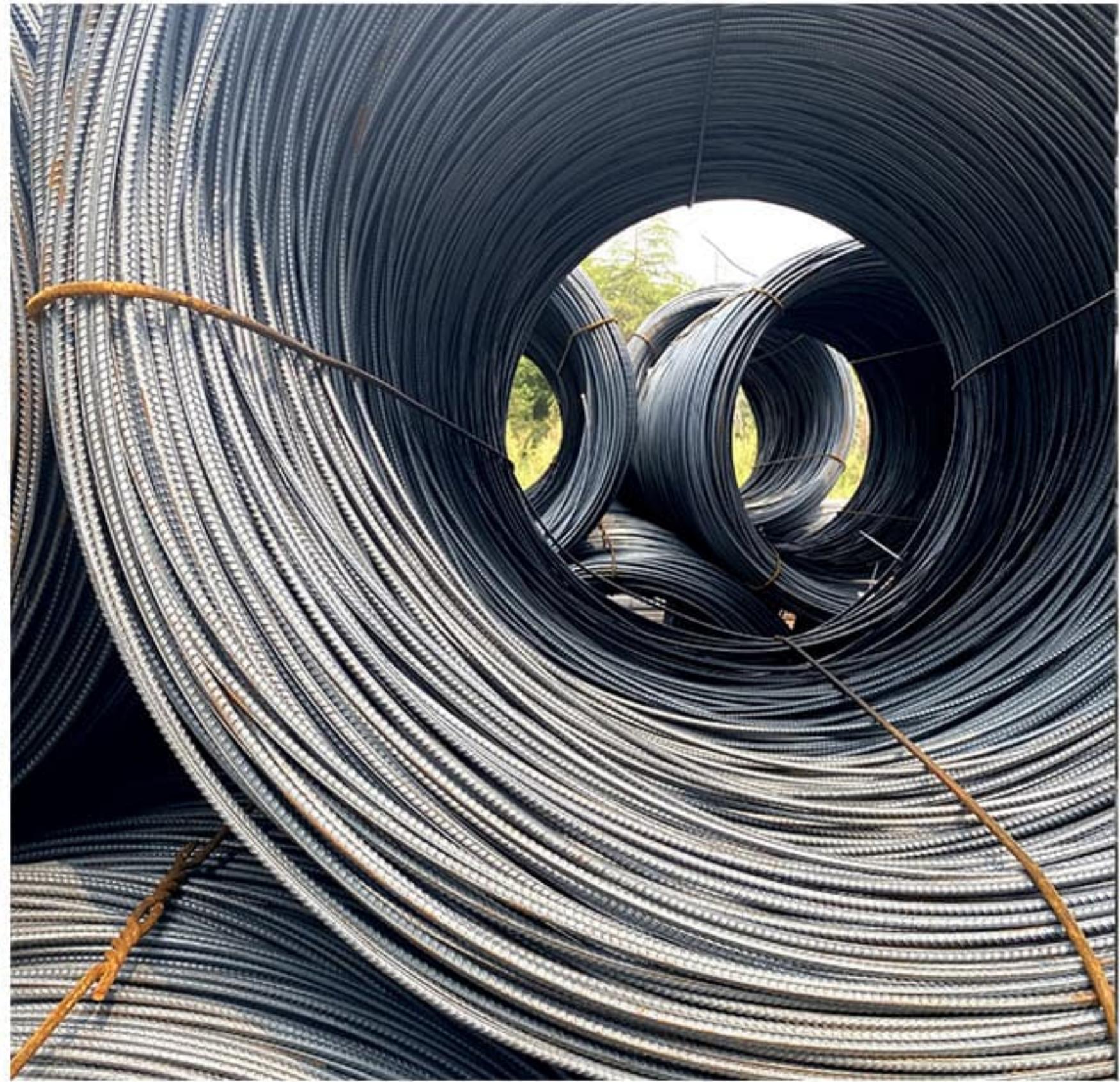
CARBON STEEL H BEAM



Nominal Size (mm)	HXB (mm)	T1 (mm)	T2 (mm)	Unit Weight (kg/m)
100*100	100*100	6	8	16.9
120*120	125*125	6.5	9	23.6
150*75	150*75	5	7	14
150*100	148*100	6	9	20.7
150*150	150*150	7	10	31.1
175*90	175*90	5	8	18
200*100	198*99	4.5	7	17.8
	200*100	5.5	8	20.9
175*175	175*175	7.5	11	40.4
194*150	194*150	6	9	29.9
200*200	200*200	8	12	49.9
	200*204	12	12	56.2
250*125	248*124	5	8	25.1
	250*125	6	9	29
250*175	244*175	7	11	43.6
300*150	298*149	5.5	8	32
	300*150	6.5	9	36.7
300*200	294*200	8	12	55.8
	298*201	9	14	65.4
350*175	346*174	6	9	41.2
	350*175	7	11	49.4
400*200	396*199	7	11	56.1
	400*200	8	13	65.4
250*250	250*250	9	14	71.8
	250*255	14	14	81.6
300*300	300*300	10	15	93
	294*302	12	12	83.4
	300*305	15	15	105
350*350	344*348	10	16	113
	350*350	12	19	135

Nominal Size (mm)	HXB (mm)	T1 (mm)	T2 (mm)	Unit Weight (kg/m)
388×402	15	15	140	
394×398	11	18	147	
400×400	13	21	172	
	21	21	197	
	18	28	232	
	20	35	283	
350×250	9	14	78.1	
400×300	10	16	105	
450×300	11	18	121	
	8	12	65.1	
	9	14	74.9	
	11	15	111	
	11	18	125	
496×199	9	14	77.9	
500×200	10	16	88.2	
	11	19	102	
	11	17	103	
	10	15	92.4	
	12	20	118	
582×300	12	17	133	
600×300	12	20	147	
	14	23	170	
	13	20	163	
	13	24	182	
	14	26	207	
808×302	16	30	241	
800×300	15	23	210	
	16	28	240	
	18	34	283	
900×300	18	34	283	

CARBON STEEL REBAR



Grade	HRB335 HRB400 HRB500 ASTM GR40 GR60
Diameter	6MM~40MM or customized
Length	5m-14m, 5.8m, 6m, 10m-12m, 12m or customized
Payment	L/C T/T
Packing	Bundle, or with all kinds of colors PVC or as your requirements



CARBON STEEL REBAR

Diameter (mm)	Theoretical weight (kg/m)
6	0.2221
8	0.3949
10	0.6170
12	0.8885
14	1.2093
16	1.5795
IS	1.9991
20	2.4580
22	2.9863
25	3.8563
28	4.8373
32	6.3181
36	7.9963
40	9.8720



Steel grade	C% <	Si% <	Mn% <	P% <	S% <	Cr% >	Ceq <
HRB335	0,17-0,25	0,40-0,80	1,00-1,60	0,045	0,045	0,3-0,4	0,52
HRB400	0,17-0,25	0,20-0,80	1,20-1,60	0,045	0,045	0,3-0,4	654
HRB500	<0,25	<0,80	<1,6	0,045	0,045	0,3-0,4	0,55
Gn60	S030	^0,40	<1,00	0,050	0,050	0,3-0,4	

CARBON STEEL SERIES

Grade	Chemical Composition (%)					Mechanical Properties		
	C≤	Si≤	Mn≤	P≤	S≤	Tensile Strength (Mpa)	Yield Stress (Mpa)	Elongation (%)
Q235B	0.20	0.28	0.7	0.025	0.025	380-450	270-300	28
Q345B	0.20	0.50	1.6	0.034	0.025	550-600	380-450	25
Q355B	0.24	0.55	1.6	0.035	0.025	550-630	380-450	21

Carbon content (wt.%)	Microstructure	Properties	Examples	
Low-carbon steel	< 0.25	Ferrite, pearlite	Low hardness and cost. High ductility, toughness, machinability and weldability	AISI 304, ASTM A815, AISI 316L
Medium-carbon steel	0.25 – 0.60	Martensite	Low hardenability, medium strength, ductility and toughness	AISI 409, ASTM A29, SCM435
High-carbon steel	0.60 – 1.25	Pearlite	High hardness, strength, low ductility	AISI 440C, EN 10088-3

