



汉武钢铁

HANWU STEEL

STEEL PROFILE

- I-Beam
- H-Beam
- Channel Steel
- Angle Steel
- Flat Steel
- Square Steel
- Special Profiles



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TYPES OF STEEL PROFILE

Steel profiles, also known as steel sections or structural steel profiles, refer to specific shapes or cross-sectional configurations made from steel. These profiles are commonly used in construction, engineering, and industrial applications for their strength, durability, and versatility. Steel profiles come in various shapes and sizes, each designed to serve specific purposes and provide structural support.

Steel profiles undergo various manufacturing processes, including hot rolling, cold forming, bending, cutting, and welding, to achieve the desired shapes and dimensions. These profiles are widely used in construction projects, architectural designs, infrastructure development, industrial equipment, and a range of other applications that require robust and reliable structural components.

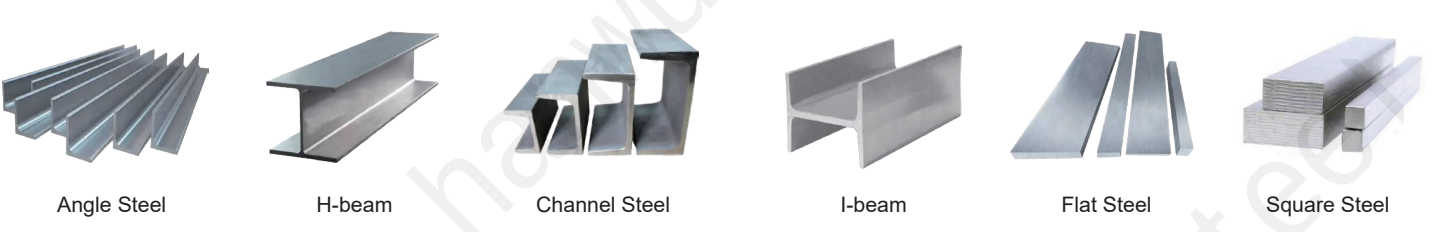
Stainless Steel



Carbon Steel



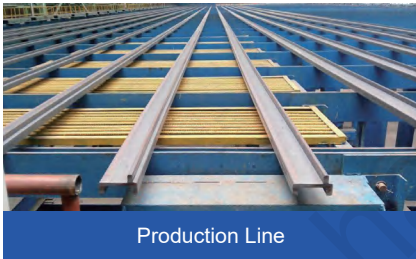
Galvanized



STEEL PROFILE PRODUCTION & TESTING



Production Line



Production Line



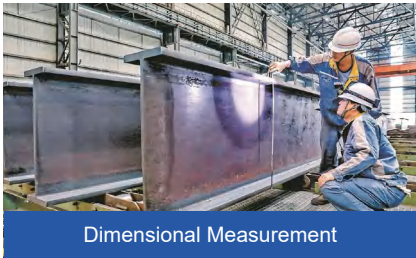
Chemical Composition



Production Line

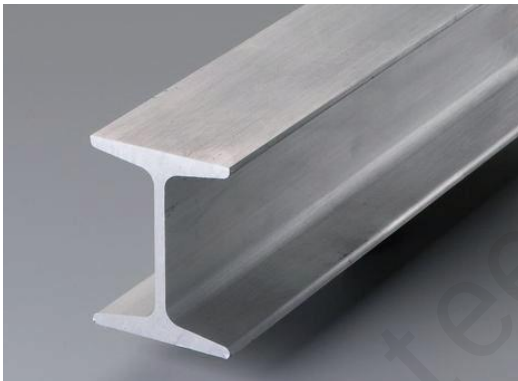


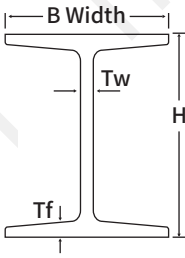
Production Line



Dimensional Measurement

I-Beams

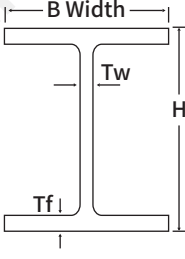


Common Size (mm)		
	IPE	IPE80/IPE100/IPE160/IPE220/IPE270/IPE330 IPE360/IPE400/IPE450/IPE500/IPE600 etc.
	IPN	IPN80/IPN100/IPN120/IPN180/IPN260/IPN300 IPN360/IPN380/IPN400/IPN500/IPN600 etc.
	IB	100x75 / 150x75 / 180x100 / 200x150 250x125 / 300x150 / 400x150 / 600x190 etc.
	S	S75x8.5 / S100x14.1 / S150x18.6 / S250x52 S380x64 / S460x104 / S510x128 / S610x180 etc.

Standard	Germany/European		European		Japan		American	
Standard	DIN1025/EN10025		DIN1025/EN10025		JIS G 3192:2008		ASTM A6/A6M	
Type	IPE (mm/inch)		IPN (mm/inch)		IB (mm/inch)		S (mm/inch)	
Height H	80-600	3.14"-23.62"	80-600	3.14"-23.62"	100-600	3.93"-23.62"	76-622	2.99"-24.48"
Flange Width B	46-220	1.81"-8.66"	42-215	1.65"-8.46"	75-190	2.95"-7.48"	59-204	2.32"-8.03"
Web Thickness Tw	3.3-15	0.12"-0.59"	3.9-21.6	0.15"-0.85"	5-16	0.19"-0.62"	4.3-20.3	0.16"-0.79"
Flange Thickness Tf	4.2-24	0.16"-0.94"	5.9-32.4	0.23"-1.27"	8-35	0.31"-1.37"	6.6-27.7	0.25"-1.09"

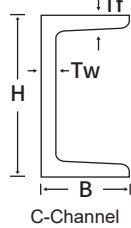
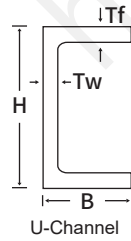
H-Beams



Common Size (mm)		
	HEA HEB	HE100/HE140/HE180/HE240/HE320/HE400/HE500 HE600/HE700/HE800/HE900/HEB1000 etc.
	HD HP	HD260/HD320/HD360/HD400 HP200/HP220/HP260/HP305/HP320/HP360/HP400 etc.
	UB	UB127x76 / UB203x133 / UB356x171 / UB457x152 UB533x210 / UB686x254 / UB838x292 etc.
	UC UBP	203x203 / 254x254 / 305x305 / 356x368 etc.
	JIS	100x100 / 150x100 / 300x150 / 400x300 / 500x200 600x200 / 700x300 / 800x300 / 1000x300 etc.
	ASTM	4x4 / 8x4 / 10x8 / 12x4 / 12x12 / 14x10 / 14x16 16x10 / 18x11 / 21x8½ / 21x12½ / 24x12¾ etc.

Standard	DIN/EN	European		British			Japan	American
Standard	EN10034 EN10163-3	DIN1025/EN10025		BS4:2005 / EN10034:1997 EN10163-3:2004			JIS G3192 JIS G3136	ASTM A6
Type (mm)	HEA/HEB	HD	HP	UB	UC	UBP	H Section	H Section
Height H	96-1008	250-569	204-372	127-1056	152.4-474.6	204-361.4	100-1008	106-943
Flange Width B	100-302	260-454	207-402	76-314	152.2-424	207.7-378.5	100-302	103-308
Web Thickness Tw	5-21	7.5-78	11.3-26	4-36	5.8-47.6	11.3-20.3	6-21	7.1-22.10
Flange Thickness Tf	8-40	12.5-125	11.3-26	7.6-64	6.8-77	11.4-20.4	8-40	8.8-39.88

Channel Steel



Common Size (mm)

UPN	UPN50/UPN65/UPN80/UPN100/UPN120/UPN140 UPN160/UPN180/UPN200/UPN350/UPN400 etc.
UPE	UPE80/UPE100/UPE120/UPE140/UPE160/UPE180 UPE200/UPE270/UPE330/UPE360/UPE400 etc.
PFC	100x50x10 / 150x75x18 / 200x75x23 / 230x75x26 260x75x28 / 380x100x54 / 430x100x64 etc.
CH	76x38x7 / 127x64x15 / 178x89x27 / 229x76x26 254x76x28 / 305x102x46 / 432x102x65 etc.
JIS	75x40 / 100x50 / 125x65 / 150x75 / 180x75 200x80 / 250x90 / 300x90 / 380x100 etc.
C	C3x5 / C5x9 / C7x9.8 / C9x15 / C10x20 / C10x30 C12x25 / C12x30 / C15x33.9 / C15x40 / C15x50 etc.
MC	MC6x12 / MC8x20 / MC10x22 / MC12x31 / MC12x40 MC13x35 / MC13x50 / MC18x58 etc.

Standard	European		British		Japan	American	
Standard	EN10206-1:2000 EN10279:2000, EN10163-3:2004		EN10279:2000 EN10163-3:2004		KS D 3502 JIS G 3192	ASTMA6/A6M-14	
Type (mm)	UPN	UPE	PFC	CH	U-Bar	C	MC
Height H	50-400	80-400	100-430	76.2-431.8	75-380	76-381	152-457
Flange Width B	38-110	50-115	50-100	38.1-101.6	40-100	35-94	63-107
Web Thickness Tw	5-14	4-13.5	5-11	5.1-12.2	5-13	4.3-18.2	7.9-17.8
Flange Thickness Tf	7-18	7-18	8.5-19	6.8-16.8	7-20	6.9-16.5	9.5-15.9

Flat Steel



Material	Stainless Steel, Carbon Steel, Galvanized, etc.	
Unit	mm	inch
Width	12-300	0.47-11.81
Thickness	3-60	0.11-2.36
Length	Customized according to your needs	

Square Steel

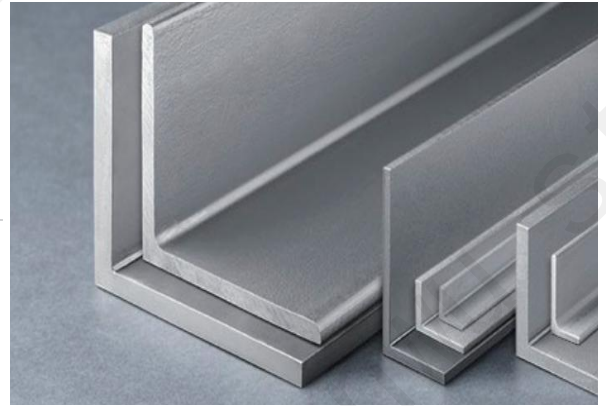
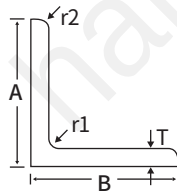


Material	Stainless Steel, Carbon Steel, Galvanized, etc.	
Unit	mm	inch
Width	20-200	0.78-7.87
Thickness	20-200	0.787-7.87
Length	Customized according to your needs	

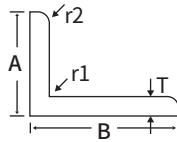
Angle Steel



- **Equal Angle Steel:** Equal steel angles have 2 axes that are the same length. Their sizing is represented by side A x side B x thickness. Equal angle steel bars are characterized by excellent strength and tensile strength. They're great for reinforcing both large and small buildings and they're often used in support frames for new construction projects.



- **Unequal Angle Steel:** Unequal steel angles are also right-angled; however, they have different sized axes making them L-shaped. This section is much stronger (up to 20%) with a much higher strength to weight ratios. Their sizing is represented by side A x side B x thickness.



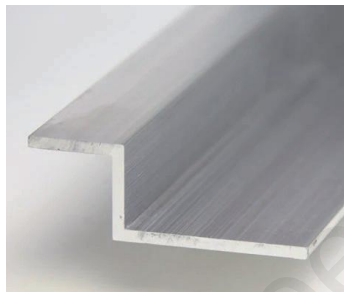
Type	Equal Angle Steel			Unequal Angle Steel		
Standard	Japan	European	American	Japan	European	American
Standard	KS D 3502:2016 JIS G 3192:2008	EN10056-1 EN10056-2/10163-3	ASTM A36 A6M-14	KS D 3502:2016 JIS G 3192:2008	EN10056-1 EN10056-2/10163-3	ASTM A36 A6M-14
Side A (mm)	25-250	20-250	19-203	90-400	100-200	44.5-203
Side B (mm)	25-250	20-250	19-203	75-100	65-100	31.8-152
Thickness T (mm)	3-25	3-35	3.2-14.3	9-13	7-15	3.2-25.4

Common Equal Angle Steel Size (mm)			Common Unequal Angle Steel Size (mm)		
Japan (mm)	European (mm)	American (inch)	Japan (mm)	European (mm)	American (inch)
25x25	L 20 x 20 x 3	L3/4x3/4x1/8	90x75	L 100 x 65 x 7	L1-3/4x1-1/4x1/8
50x50	L 65 x 65 x 6	L1-3/4x1-3/4x3/16	100x75	L 110 x 70 x 12	L3x2-1/2x5/16
75x75	L 100 x 100 x 6	L2x2x1/8	125x75	L 125 x 75 x 10	L4x3x1/4
90x90	L 130 x 130 x 16	L3x3x3/16	150x100	L 130 x 90 x 14	L5x3-1/2x1/4
100x100	L 150 x 150 x 20	L4x4x7/16	200x90	L 150 x 75 x 9	L6x4x9/16
130x130	L 200 x 200 x 18	L6x6x7/16	300x90	L 150 x 100 x 14	L8x4x3/4
250x250	L 250 x 250 x 28	L8x8x5/8	400x100	L 200 x 100 x 15	L8x6x5/8

Special Profiles



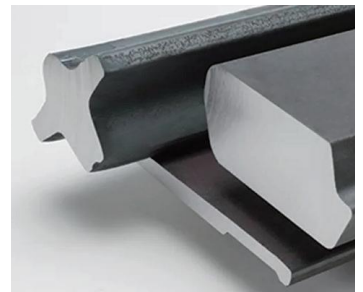
Bulb Flat Steel



Z-Profiles



Steel Sheet Piles



Other Special Profiles



PRODUCT PACKAGING

Standard Export Seaworthy Package (Waterproof paper, and steel strip packed). Suit for all kinds of transport, or as required. Every cartons loaded with good shoring and strengthening. Use 6m loaded by 20ft container, 12m loaded by 40ft container. We will take container loading pictures and seal the container. Transportation speed is quick. And keep customer eachstep informed.



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