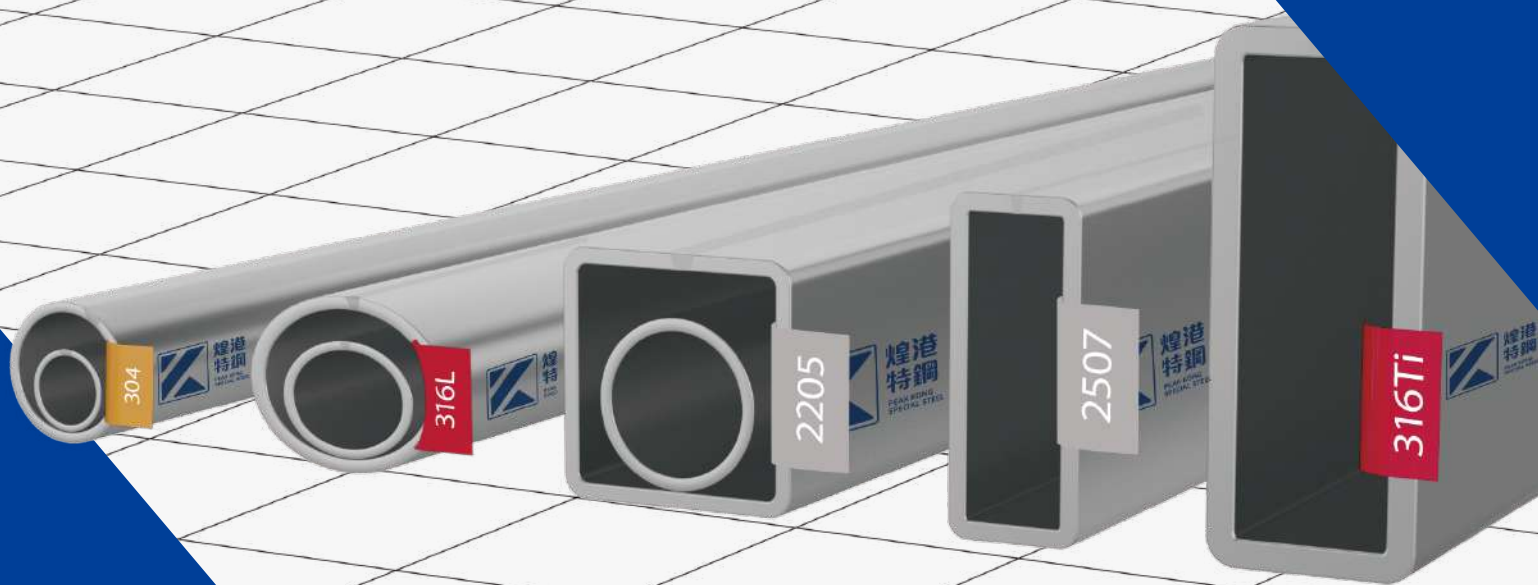




Peakkong Special Steel Co.,Ltd
煌港特鋼有限公司



不鏽鋼空心結構型材

STAINLESS STEEL HOLLOW STRUCTURAL SECTION



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簡介

INTRODUCTION

煌港特鋼有限公司

煌港特鋼致力為激光焊接結構型材製造及研發提供最先進的技術、軟件和服務。

在不鏽鋼及雙相不鏽鋼服務領域處於領先地位，通過與客戶的密切合作，我們提高不鏽鋼空心結構型材的性能，尋找新的產品解決方案並優化製造流程。

在不鏽鋼型材的設計階段，我們確保考慮所有制造技術。這將確保客戶獲得最具成本效益的解決方案，同時達到最高質量標準。

為客戶提供：不銹鋼空心結構型材、雙相/超級雙相不銹鋼空心結構型材、我們可以一起開發耐腐蝕、更輕和更可持續的不鏽鋼產品和工程解決方案的全新可能性。

Peakkong Special Steel Co., Ltd.

Peakkong Special Steel is dedicated to providing cutting-edge technology, software, and services for the manufacturing and development of laser-welded structural profiles.

We are a leader in stainless steel and duplex stainless steel services. working closely with our customers, we enhance the performance of stainless steel hollow structural profiles, identify new product solutions, and optimize manufacturing processes.

During the design phase of our stainless steel profiles, we ensure that all manufacturing technologies are considered. This ensures that our customers receive the most cost-effective solution while meeting the highest quality standards.

We offer our customers:stainless steel hollow structural sections,duplex/super duplex stainless steel hollow structural sections,together, we can develop new possibilities for corrosion-resistant, lighter, and more sustainable stainless steel products and engineering solutions.



不銹鋼空心結構鋼應用

Application of Stainless Steel Hollow Structural Steel





空心型材材質的不鏽鋼鋼種

Stainless Steel Grades For Hollow Profile Materials

	不銹鋼			典型的化学成分, %						R _{p0.2} {N/mm}	R _{p0.2} {N/MM}	R _m {N/MM}	A _e {%}	KV{J}	描述
	半方	ASTM	OUTOK	C	N	Cr	Ni	衛生干事	穆特	RT ³⁾	RT ³⁾	RT ³⁾	RT ³⁾	RT ³⁾	
鐵素體 不銹鋼	1.4003	S40977	4003	0.02	-	11.5	0.5	-	-	280	-	450	20	-	12Cr 多用途不銹鋼
	1.4016	430	4016	0.04	-	16.5	-	-	-	260	-	450	20	-	17Cr 多用途不銹鋼
	1.4509	S43940	4509	0.02	-	18	-	-	Ti+Nb	230	-	430	18	-	18Cr 多用途不銹鋼
	1.4512	409		0.03	-	11	-	-	Ti	210	-	380	25	-	排氣管道和催化劑不銹鋼
	1.4521	444		0.02	-	18	-	2	Ti+Nb	303	-	420	20	-	熱水蓄熱罐不銹鋼
雙相鋼	1.4462	S32101	LDX2101*	0.03	0.22	21.5	1.5	0.3	5Mn	450	490	650	30	60	低合金雙相鋼
	1.4362	S32304	2304	0.02	0.10	23	4.8	0.3	-	400	-	630	25	60	低合金雙相鋼
	1.4462	S32205	2205	0.02	0.17	22	5.7	3.1	-	460	-	640	25	60	中合金雙相鋼
	1.4410	S32750	2507	0.02	0.27	25	7	4	-	530	-	730	20	60	高合金雙相鋼
	1.4318	301LN	4318	0.02	0.14	17.7	6.5	-	-	350	380	650	40	60	1-合金多用途不銹鋼
奧氏體CrNi 和CrMn 鋼	1.4372	201	4372	0.05	0.15	17	5	-	6.5Mn	350	380	750	45	60	鎳合金多用途不銹鋼
	1.4301	304	4301	0.04	-	8.1	8.3	-	-	210	250	520	45	60	多功能不銹鋼
	1.4307	304L	4307	0.02	-	8.1	8.3	-	-	200	240	500	45	60	低碳多功能不銹鋼
	1.4311	304LN	4311	0.02	0.14	18.5	10.5	-	-	270	310	550	40	60	氮合金不銹鋼
	1.4541	321	4541	0.04	-	17.3	9.1	-	Ti	200	240	500	40	60	Ti穩定化低合金鋼
奧氏體 CrNiMo鋼	1.4306	304L	4306	0.02	-	18.2	10.1	-	-	200	240	500	45	60	低碳不銹鋼
	1.4401	316	4401	0.04	-	17.2	10.2	2.1	-	220	260	520	45	60	CrNiMo鋼
	1.4404	316L	4404	0.02	-	17.2	10.1	2.1	-	220	260	520	45	60	低碳CrNiMo鋼
	1.4436	316	4436	0.04	-	16.9	10.7	2.6	-	220	260	530	40	60	低碳高鉬 CrNiMo(2,6Mo) 鋼
	1.4432	316L	4432	0.02	-	16.9	10.7	2.6	-	220	260	520	45	60	氮合金化CrNiMo鋼
奧氏體 高合金鋼	1.4406	316LN	4406	0.02	0.14	17.2	10.3	2.1	-	280	320	580	40	60	Ti穩定型CrNiMo鋼
	1.4571	316Ti	4571	0.04	-	16.8	10.9	2.1	Ti	220	260	520	40	60	低碳CrNiMo
	1.4435	316L	4435	0.02	-	17.3	12.6	2.6	-	220	260	520	45	60	適用於化工行業的特种不銹鋼
	1.4439	317LMN	4439	0.02	0.14	17.8	12.7	4.1	-	200	310	580	40	60	例如, 游泳池中的張力承重結構。
	1.4539	N08904	904L	0.01	-	20	25	4.3	1.5Cu	220	260	520	35	60	例如, 游泳池中的張力承重結構。
奧氏體 高合金鋼	1.4529	N08926	4529	0.02	0.20	20	25	6.5	0.5Cu	300	340	650	40	60	例如, 游泳池中的張力承重結構。
	1.4547	S3154	254 SMO*	0.01	0.20	20	18	6.1	Cu	300	340	650	40	60	例如, 游泳池中的張力承重結構。
	1.4565	S34565	4565	0.02	0.45	24	17	4.5	5.5Mn	420	460	800	30	90	例如, 游泳池中的張力承重結構。

1根据晶体结构(铁素体、双相, 即奥氏体-铁素体、奥氏体)或合金进行分类。

21 鋼級 EN 10088-2/ASTM A240/符合 Outokumpu 标准机械性能符合标准。EN 10088-2.粗体显示的鋼級被包含在EN 1993-1-4中。在设计基于该标准的第7节时, 也可以使用其他鋼級。

3 室温, 最小值。

	steels			Typical chemical composition,%						R _{p0.2} {N/mm}	R _{p0.2} {N/MM}	R _m {N/MM}	A _e {%}	KV{J}	Description
	EN	ASTM	OUTOK	C	N	Cr	Ni	Mo	Muut	RT ³⁾	RT ³⁾	RT ³⁾	RT ³⁾	RT ³⁾	
Feriticsta inless steels	1.4003	S40977	4003	0.02	-	11.5	0.5	-	-	280	-	450	20	-	12Cr multi-purpose stainless steel
	1.4016	430	4016	0.04	-	16.5	-	-	-	260	-	450	20	-	17Cr multi-purpose stainless steel
	1.4509	S43940	4509	0.02	-	18	-	-	Ti+Nb	230	-	430	18	-	18Cr multi-purpose stainless steel
	1.4512	409		0.03	-	11	-	-	Ti	210	-	380	25	-	Exhaust pipe and catalyzer stainless steel
	1.4521	444		0.02	-	18	-	2	Ti+Nb	303	-	420	20	-	Hot water accumulator stainless steel
Duplexsteels	1.4462	S32101	LDX2101*	0.03	0.22	21.5	1.5	0.3	5Mn	450	490	650	30	60	Low-alloy d uplex steel
	1.4362	S32304	2304	0.02	0.10	23	4.8	0.3	-	400	-	630	25	60	Low-alloy d uplex steel
	1.4462	S32205	2205	0.02	0.17	22	5.7	3.1	-	460	-	640	25	60	Medium-alloy duplex steel
	1.4410	S32750	2507	0.02	0.27	25	7	4	-	530	-	730	20	60	Hig h-alloy duplex steel
	1.4318	301LN	4318	0.02	0.14	17.7	6.5	-	-	350	380	650	40	60	N-alloyed multi-purpose stainless steel
Austenitic CrNi and CrMin steels	1.4372	201	4372	0.05	0.15	17	5	-	6.5Mn	350	380	750	45	60	Mn-alloyed multi-purpose stainless stee
	1.4301	304	4301	0.04	-	8.1	8.3	-	-	210	250	520	45	60	Multi-purpose stainless steel
	1.4307	304L	4307	0.02	-	8.1	8.3	-	-	200	240	500	45	60	Low-carbon multi-purpose stainle ss steel
	1.4311	304LN	4311	0.02	0.14	18.5	10.5	-	-	270	310	550	40	60	Nitrogen alloyed stainless steel
	1.4541	321	4541	0.04	-	17.3	9.1	-	Ti	200	240	500	40	60	Ti stabilised stain less steel
Austenitic CrNiMo steels	1.4306	304L	4306	0.02	-	18.2	10.1	-	-	200	240	500	45	60	Low-carbon stainless steel
	1.4401	316	4401	0.04	-	17.2	10.2	2.1	-	220	260	520	45	60	CrNiMo steel
	1.4404	316L	4404	0.02	-	17.2	10.1	2.1	-	220	260	520	45	60	Low-carbon CrNiMo steel
	1.4436	316	4436	0.04	-	16.9	10.7	2.6	-	220	260	530	40	60	High molybdenum CrNiMo (2,6Mo) steel
	1.4432	316L	4432	0.02	-	16.9	10.7	2.6	-	220	260	520	45	60	Low-carbon, high molybdenum CrNiMo (2,6 Mo) steel
Austenitic high alloy steels	1.4406	316LN	4406	0.02	0.14	17.2	10.3	2.1	-	280	320	580	40	60	Nitrogen alloyed CrNiMo stee
	1.4571	316Ti	4571	0.04	-	16.8	10.9	2.1	Ti	220	260	520	40	60	Ti stabilised CrNiMo steel
	1.4435	316L	4435	0.02	-	17.3	12.6	2.6	-	220	260	520	45	60	Low-carbon CrNiMo steel
	1.4439	317LMN	4439	0.02	0.14	17.8	12.7	4.1	-	200	310	580	40	60	Special stainless steel for the chemical industry
	1.4539	N08904	904L	0.01	-	20	25	4.3	1.5Cu	220	260	520	35	60	e.g. tension load bearing structures in swimming pools
奧氏體 高合金鋼	1.4529	N08926	4529	0.02	0.20	20	25	6.5	0.5Cu	300	340	650	40	60	e.g. tension load bearing structures in swimming pools
	1.4547	S3154	254 SMO*	0.01	0.20	20	18	6.1	Cu	300	340	650	40	60	e.g. tension load bearing structures in swimming pools
	1.4565	S34565	4565	0.02	0.45	24	17	4.5	5.5Mn	420	460	800	30	90	e.g. tension load bearing structures in swimming pools

機械/物理性質

Mechanical/Physical Properties

■ 機械性質 Mechanical properties

圖1展示了不銹鋼的典型應力-應變曲線。應力-應變曲線的形狀略為非線性，並不包含一個明確的屈服點。因此，不銹鋼的屈服強度定義為在0.2%永久偏移應變時的抗拉強度。不銹鋼應力-應變行為的典型特徵包括工性硬化能力、較大的斷裂延伸率以及較高的抗拉強度與0.2%抗拉強度之比。這些特性是透過對奧氏體等級進行冷加工來增強其材料機械強度值的基礎；在維持足夠的延伸率和延展性的同時，可以提升屈服強度和抗拉強度值。

Figure 1 presents typical stress-strain curves for stainless steel. The shape of the stress-strain curves is slightly non-linear and does not include a well defined yield point. For this reason, the yield strength for stainless steels is quoted as the proof strength defined at the 0,2 % permanent offset strain. Typical characteristics of stainless steels stress-strain behaviour are the work-hardening ability, a large value of elongation at fracture, and the high ratio of tensile strength to 0,2 % proof strength. These characteristics are the basis for enhancing the material mechanical strength values of austenitic grades by cold working; the yield and tensile strength values can be enhanced whilst maintaining adequate values for elongation and ductility.

圖1展示了三種不銹鋼的應力-應變曲線。最下方的曲線描繪了奧氏體鋼級(如1.4301和1.4401)在退火狀態下的應力-應變曲線。鐵素體鋼級1.4003的0.2%屈服強度值與上述奧氏體鋼級相似，但其延伸率及抗拉強度值較低。1.4318鋼級(17Cr-7Ni)的應力-應變曲線位於奧氏體鋼級1.4301/1.4401和雙相鋼之間。鋼級1.4318在退火狀態下的0.2%證明強度對應於碳鋼強度等級S355。如圖1所示，退火狀態下的雙相鋼級是最強的等級，鋼級1.4462即為此類。

The stress-strain curves of three stainless steels are given in Figure 1. The lowest curve portrays the stress-strain curve in the annealed condition for austenitic steel grades such as 1.4301 and 1.4401. The 0,2 % proof strength value of ferritic steel grade 1.4003 is similar to that of the austenitic grades mentioned above, but its elongation and tensile strength values are lower. The stress-strain curve for steel grade 1.4318 (17Cr-7Ni) is between the austenitic grades 1.4301/1.4401 and duplex steels. The 0,2 % proof strength of steel grade 1.4318 in the annealed condition corresponds to the carbon steel strength class S355. Duplex steel grades in the annealed condition are the strongest grades, as indicated by steel grade 1.4462 in Figure 1.

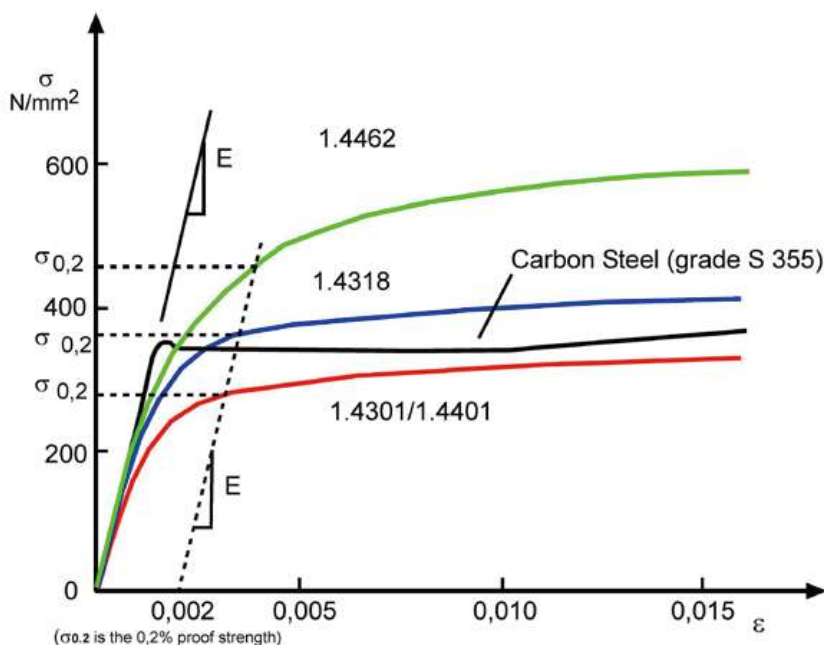


圖1.不銹鋼和碳鋼在退火狀態下的典型應力-應變曲線/《結構不銹鋼設計手冊》，EuroInox，2006/

圖2展示了奧氏體鋼級在冷加工程度變化下的典型機械性質。對於奧氏體鋼級，透過適度的冷加工，有可能獲得355-500N/mm²的屈服強度，這與結構鋼的典型性能相符，同時不會顯著改變材料的延展性特性。

The typical mechanical properties for austenitic steel grades as a function of degree of cold-working are presented in figure 3.2.2. For austenitic steel grades, it is possible to obtain a yield strength of 355-500 N/mm², as is typical for structural steels, with moderate cold-working and without significantly changing the ductility properties of the material.

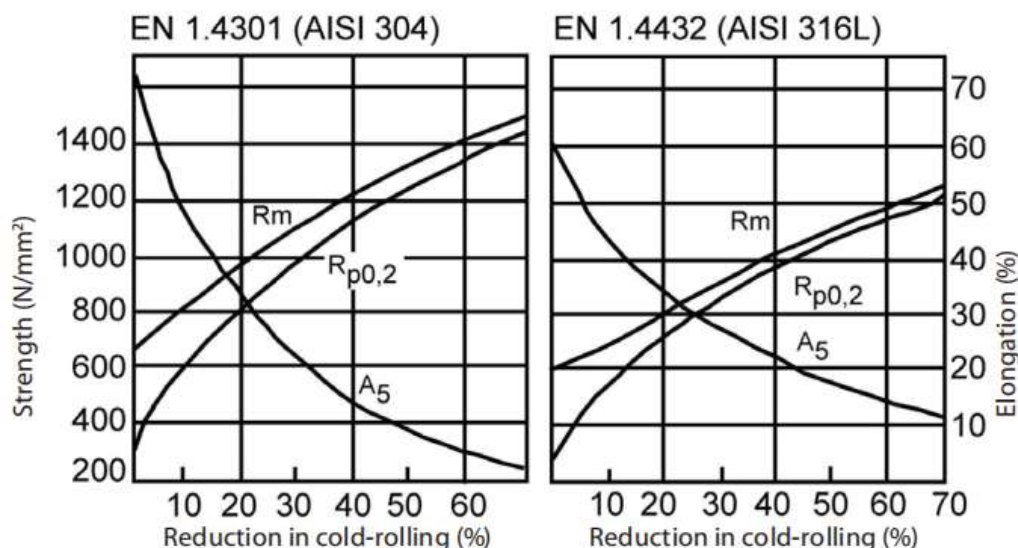


圖2.奧氏體1.4301(左)和1.4432(右)不銹鋼的機械性質隨冷加工程度的變化情況 /奧托昆普托尼奧工廠/

依照EN1993-1-4:2006，設計中所應用的名義屈服強度限制在480 N/mm²的極大值內。然而，這項限制僅在設計符合歐洲代碼標準時有效。不銹鋼廣泛應用於建築業以外的行業以及歐洲以外的國家，這些國家的當地法規可能與EN1993-1-4有所不同。因此必須考慮到，不銹鋼的屈服強度高於480 N/mm²可以適用。

In compliance with EN 1993-1-4:2006, the nominal yield strength applied in design is limited to a maximum value of 480 N/mm². This limit, however, is valid only when designing in compliance with Eurocode standards. Stainless steel is widely used in industries other than the building industry and outside Europe in countries where local regulations may differ from EN 1993-1-4. It must therefore be taken into account that the yield strength of stainless steels higher than 480 N/mm² can be applicable.

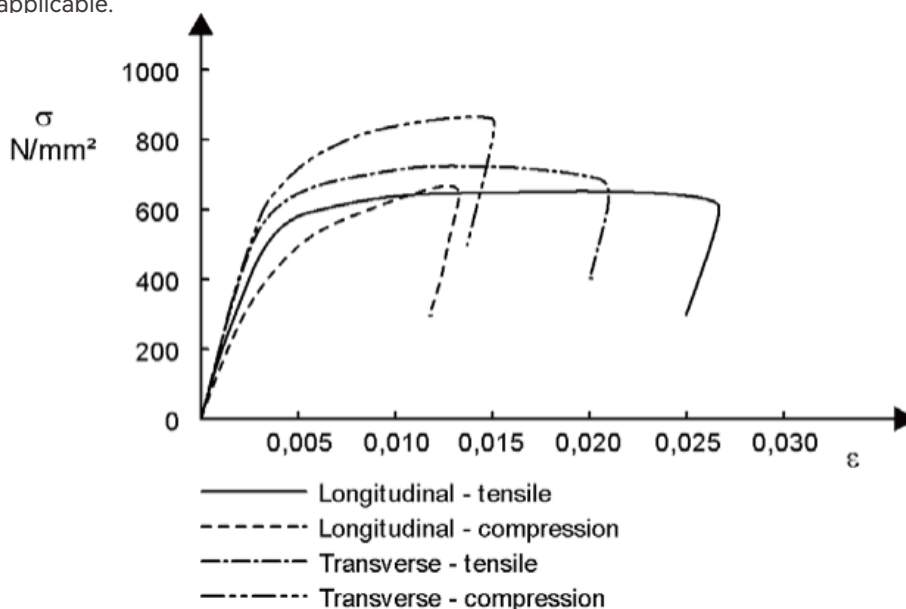


圖3.冷加工奧氏體鋼的典型應力-應變曲線，依軋製和加載方向/《結構不銹鋼設計手冊》，Euroinox，2006/

在奧氏體冷加工鋼的應力-應變行為中可見各向異性和不對稱性。通常，最低的屈服強度值是縱向壓縮強度，即沿著軋製方向的壓縮屈服強度。根據不同的應力類型和方向，典型冷加工奧氏體鋼的應力-應變曲線如圖3所示

Anisotropy and asymmetry can be seen in the stress-strain behaviour of austenitic cold-worked steels. The lowest yield strength value is usually the longitudinal compression strength, i.e. the compression yield strength in the rolling direction. stress-strain curves of typical cold-worked austenitic steels according to different stress types and directions are shown in Figure 3.

在縱向壓縮成為相關應力條件(即柱狀行為或彎曲)且對該方向的屈服強度值一無所知的情況下，為了考慮到冷加工材料的非對稱性，特徵值應取為表1中0.8x0.2%抗拉強度的值。如果有適當的實驗數據支持，也可以使用更高的值。《結構不銹鋼設計手冊》，EuroInox,2006/版

To take into account asymmetry of the cold worked material in those cases where compression in the longitudinal direction is a relevant stress condition (i.e. column behaviour or bending) and there exist no knowledge about the value of yield strength in that direction, the characteristic value should be taken as 0,8 x 0,2% proof strength in table 1. A higher value may be used if supported by appropriate experimental data /design manual for structural stainless steel, Euro Inox, 2006/.

冷加工不銹鋼的分類遵循EN 10088-2標準，根據0.2%抗拉強度(例如CP350，其中350表示 $R_{0,2,min}=350\text{ N/mm}^2$)或拉伸強度(例如C700， $R_{m,min}=700\text{ N/mm}^2$)來劃分強度等級。用於結構計算時所採用的強度等級依標準EN 1993-1-4定義，最大屈服強度為480N/mm²。如果材料的性能符合EN 1993-1-4標準第7節的要求，可以使用強度等級較高的材料。表1列出了最常用的滿足強度要求的強度等級和鋼材等級。

Cold-worked stainless steels are classified in compliance with EN 10088-2 to strength classes either on the basis of the 0,2 % proof strength (e.g. CP350, in which 350 means $R_{0,2,min}=350\text{ N/mm}^2$) or tensile strength (eg. C700, $R_{m,min}=700\text{ N/mm}^2$). The strength classes used with structural calculations are defined in compliance with the standard EN1993-1-4, the maximum yield strength being 480 N/mm². Materials with higher strength classes can be used if their properties are found to be appropriate in compliance with standard EN 1993-1-4 section 7. Table1 shows the most commonly used strength classes and steel grades that satisfy the strength requirement.

表1:符合EN 10088-2:2005標準的冷加工鋼材，適用於依據EN 1993-1-4標準進行設計時。

	屈服强度 R _m [MPa]	屈服强度 R _m [MPa]	条带和板材产品中的可用钢级 Available steel grades in strip and plate products
CP350	350-500	-	1.4318 ² ,1.4301.1.4307,1.4401.1.4404
CP350	500-700	-	1.4318,1.4301.1.4307,1.4401.1.4404
C700	-	700-850	1.4318,1.4301.1.4307,1.4401.1.4404
C850	-	850-1000	1.4318,1.4301.1.4307,1.4401.1.4404
1符合EN 10088-2的性能等级，CP=抗拉强度，C=拉伸强度 1 Property class in compliance with EN 10088-2,CP= proof strength,C= tensile strength			
2在鍛嶼嘎撐叫退剪火脹侶状态下满足性能等级要求(EN10088中指定为2B 2 Meets the property class requirements in soft annealed condition (designated 2B in EN 10088)			

尺寸公差

Dimensional Tolerance

矩形空心截面

不锈钢

根据EN 10219-2标准进行冷成型和焊接;等级符合。

符合EN 10082标准。

表面状态:去除外部焊缝，拉丝/喷砂和酸洗处理

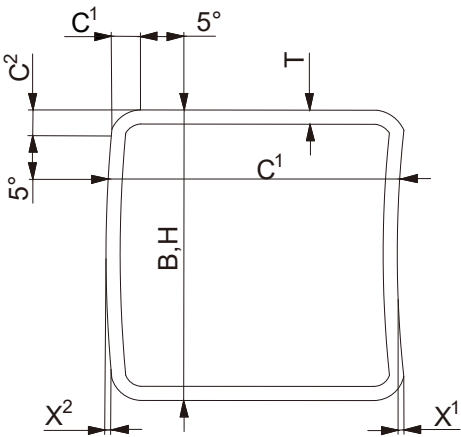
Rectangular Hollow Sections

Stainless steel

Cold formed and welded acc. to EN 10219-2;

grade accordto EN 10088.

Surface condition: external weld seam removed.brushed / blasted and pickled



公差(根据EN 10219-2) TOLERANCES (ACCORDING TO EN 10219-2)		
特性 Characteristic	公差 Tolerance	
外部尺寸, B和H Outside dimensions, B and H	B、H小于100 毫米:± 1%, 最小± 0.5 毫米 B,H < 100 mm: ± 1 %, min ± 0.5 mm 100 毫米≤ B、H≤200 毫米:±0.8% 100 mm ≤ B,H ≤ 200 mm:± 0.8 % B、H>200毫米:±0.6% B,H > 200 mm: ± 0.6 %	
凹凸度(X'/X?)Concavity / Convexity (X'/x?)	最大值为0.8%，最小值为0.5毫米 Ma→x.0.8 %with a minimum of 0.5 mm	
壁厚, T Wall thickness, T	当T≤5毫米时，±10% 当T>5毫米时，±0.5毫米 ± 10 %, whenT≤ 5 mm±0.5 mm, whenT >5 mm	
边的方正度 Squareness of sides	90 ± 10	
外部角轮廓, C1、C2或R External cornerprofile, C1, C2 or R	B+H< 200 毫米且T≤3毫米:最大 1.5T B+H ≤ 200 mm andT ≤ 3 mm: Max 1.5T B+H≤ 200 毫米且T>3毫米:1.6T-2.4T B+H ≤ 200 mm andT> 3mm: 1.6T -2.4T B+H>200 毫米且T≤4毫米:2T-3T B+H > 200 mm andT≤ 4mm: 2T-3T B+H>200 毫米且T>4毫米:1.6T-2.4T B+H >200 mm andT> 4mm: 1.6T-2.4T	1)
长度, L Length, L	标准长度6米，公差 ±20 毫米 Standrd length 6 m, tolerance 0/+20 mm	1)
直线度 Straightness	总长度的 0.15% 0.15 %6 of total length	
扭曲度 Twist	2 毫米 ± 0.5 毫米/米 2 mm + 0.5 mmy'm	

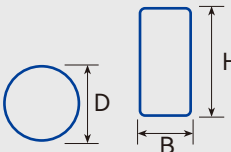
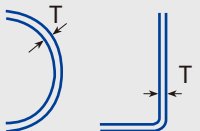
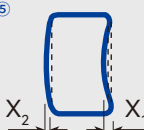
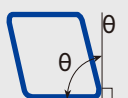
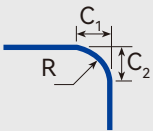
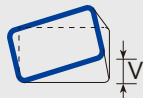
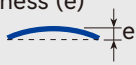
此尺寸在测量B或H时为最大值，在测量T时为最小值
This dimension is maximum when measuring B or hand minimum when measuring T

技術參數

Technical Data

符合EN10219和EN10088的尺寸公差

Dimensional Tolerances to EN 10219 and EN 10088

特性 Characteristics	圓通 Circular hollow sections		方通/扁通 Square/rectangular hollow sections	
	熱成型 Hot finished	冷成型 Cold finished	熱成型 Hot finished	冷成型 Cold finished
Outside dimensions (D, B and H) 	$\pm 1\%$ with a min. of $\pm 0.5\text{mm}$ and a max. of $\pm 10\text{mm}$	$\pm 1\%$ with a min. of $\pm 0.5\text{mm}$ and a max. of $\pm 10\text{mm}$	$\pm 1\%$ ^① with a min. of $\pm 0.5\text{mm}$ and a max. of $\pm 10\text{mm}$	- H, B < 100mm $\pm 1\%$ with a min. of $\pm 0.5\text{mm}$ 100mm ≤ H B ≤ 200mm $\pm 0.8\%$ - H, B > 200mm $\pm 0.6\%$
Thickness(T) 	-10% ^{②③}	- D ≤ 406.4 mm T ≤ 5 mm $\pm 10\%$ T > 5 mm $\pm 0.50\text{mm}$ - D > 406.4 mm $\pm 10\%$ with max. of $\pm 2\text{mm}$	-10% ^{②③}	- T ≤ 5mm $\pm 10\%$ - T > 5mm $\pm 0.5\text{mm}$
Out of roundness(O) $\frac{D_{\text{max.}} - D_{\text{min.}}}{100}$ 	2% max.D nominal if D/T ≤ 100 ^④	2% max.D nominal if D/T ≤ 100 ^④		
Concavity/Convexity (X ₁ , X ₂) ^⑤ 			1%	0.8% max. with a min. of 0.5mm
Squareness of side (θ) 			90° ± 1°	90° ± 1°
External corner profile (C ₁ , C ₂ , or R) 			R ≤ 3T	- T ≤ 6mm R = 1.6T to 2.4T 6 < T ≤ 10mm R = 2.0T to 3.0T - T > 10mm R = 2.4T to 3.6T
Twist(V) 			2mm ^① + 0.5mm/m in length ^①	
Straightness (e) 	0.20% ^① of total length & 3mm over any 1m length		0.20% of total length	0.20% of total length
			& 3mm over any 1m length	
Mass (M)	±6% in individual lengths ^⑦		±6% in individual lengths ^⑦	

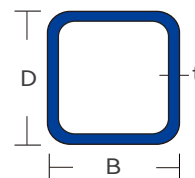
產品認證

Product Certification



不銹鋼方通

Stainless Steel Square Hollow Section

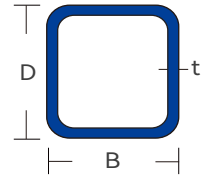


尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
10 x 10	1.0	0.29
15 x 15	1.0	0.45
	1.2	0.54
	1.5	0.66
16 x 16	1.0	0.49
	1.2	0.58
	1.5	0.71
20 x 20	1.0	0.61
	1.2	0.73
	1.5	0.90
	2.0	1.18
25 x 25	2.5	1.35
	1.0	0.77
	1.2	0.92
	1.5	1.14
	2.0	1.50
30 x 30	2.5	1.74
	3.0	2.17
	1.0	0.93
	1.2	1.11
	1.5	1.38
35 x 35	2.0	1.81
	2.5	2.24
	3.0	2.65
	1.0	1.09
	1.2	1.30
40 x 40	1.5	1.62
	2.0	2.13
	2.5	2.64
	3.0	3.12
	1.0	1.25
	1.2	1.50
45 x 45	1.5	1.86
	2.0	2.45
	2.5	3.03
	3.0	3.60
	4.0	4.70
50 x 50	5.0	5.40
	1.5	2.34
	2.0	3.09
	2.5	3.83
	3.0	4.56
	4.0	5.98
60 x 60	5.0	7.35
	6.0	8.20
	8.0	10.50
	1.5	2.81
	2.0	3.73
	2.5	4.63
60 x 60	3.0	5.52
	3.2	5.67
	3.6	6.34
	4.0	7.26
	5.0	8.94
	6.0	9.45

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
70 x 70	2.0	4.37
	2.5	5.28
	3.0	6.47
	3.5	7.25
	3.6	7.46
	4.0	8.53
	5.0	10.10
	6.3	12.50
	8.0	15.30
75 x 75	10.0	19.13
	3.0	7.07
	4.0	9.43
	5.0	11.78
80 x 80	6.0	14.14
	1.5	3.77
	2.0	5.00
	2.5	6.22
	3.0	7.43
	3.5	8.35
	3.6	8.59
	4.0	9.81
	5.0	12.13
	6.0	13.80
	6.3	14.40
90 x 90	8.0	17.83
	10.0	21.88
	3.0	8.16
	3.5	9.45
	3.6	9.72
	4.0	10.70
	5.0	13.30
	6.0	15.70
100 x 100	6.3	16.40
	8.0	20.32
	10.0	25.53
	2.0	6.28
	3.0	9.34
	4.0	12.36
	5.0	15.32
	6.0	17.60
120 x 120	6.3	18.40
	8.0	22.90
	10.0	27.86
	12.0	33.44
	3.0	11.42
	4.0	15.12
	5.0	18.77
	6.0	21.30
140 x 140	6.3	22.30
	8.0	27.90
	10.0	34.13
	12.0	39.94
	12.5	41.6
	5.0	21.10
	6.0	25.97
140 x 140	6.3	26.30
	8.0	32.89
	10.0	41.15
	12.5	49.50

不銹鋼方通 (續)

Stainless Steel Square Hollow Section (Continued)



尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
150 x 150	3.0	14.13
	4.0	18.14
	5.0	23.30
	6.0	27.00
	6.3	28.30
	8.0	35.40
	10.0	43.47
	12.0	53.48
	12.5	55.71
	16.0	65.05
160 x 160	5.0	22.83
	6.0	27.39
	8.0	36.90
	10.0	46.88
	12.0	54.78
180 x 180	5.0	27.97
	6.0	33.26
	6.3	34.20
	8.0	43.00
	10.0	53.00
	12.0	61.01
	12.5	65.20
	16.0	81.30
200 x 200	3.0	18.91
	4.0	25.12
	5.0	31.27
	6.0	37.09
	6.3	38.2
	8.0	48.00
	10.0	59.30
	12.0	68.84
	12.5	73.00
	16.0	90.91

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
220 x 220	4.0	26.09
	5.0	32.62
	6.0	39.14
	8.0	52.18
	10.0	65.23
	12.0	78.28
250 x 250	4.0	31.50
	6.0	46.83
	6.3	48.10
	8.0	60.50
	10.0	75.00
	12.0	88.45
250 x 250	12.5	92.70
	16.0	111.48
300 x 300	6.0	55.30
	6.3	57.90
	8.0	74.18
	10.0	90.70
	12.0	108.68
	12.5	112.00
300 x 300	16.0	141.84
350 x 350	8.0	85.70
	10.0	105.93
	12.0	126.74
	12.5	132.00
350 x 350	16.0	166.94
400 x 400	8.0	97.56
	10.0	121.95
	12.0	146.34
	12.5	152.00
	16.0	191.94
500 x 500	8.0	125.25
	10.0	155.43
	12.0	185.75
	12.5	193.39
	18.0	275.20
	20.0	304.51
	22.0	333.57
	25.0	376.68

備註:

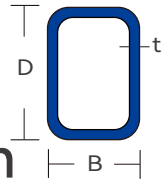
Remarks:

可根據客戶要求訂做非標尺寸不銹鋼管規格厚度，歡迎查詢。

Can be customized according to customer requirements of non-standard size stainless steel hollow section thickness. Welcome to inquire.

不銹鋼扁通

Stainless Steel Rectangular Hollow Section

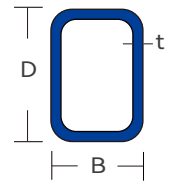


尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
20 x 10	1.0	0.45
	1.2	0.54
	1.5	0.66
20 x 15	1.5	0.78
	2.0	1.02
25 x 10	1.0	0.53
	1.5	0.78
25 x 15	1.0	0.61
	1.2	0.73
	1.5	0.90
	2.0	1.18
30 x 10	1.0	0.61
	1.2	0.73
	1.5	0.90
30 x 15	1.0	0.68
	1.2	0.81
	1.5	1.00
	2.0	1.30
30 x 20	1.0	0.77
	1.2	0.92
	1.5	1.14
	2.0	1.50
35 x 20	1.0	0.85
	1.5	1.26
	2.0	1.65
40 x 10	1.5	1.14
40 x 15	1.0	0.85
	1.2	1.01
	1.5	1.26
	2.0	1.65
40 x 20	1.0	0.93
	1.2	1.11
	1.5	1.38
	2.0	1.81
	2.5	2.03
40 x 25	1.5	1.44
	2.0	1.89
	2.5	2.23
40 x 27	1.5	1.55
40 x 30	1.0	1.09
	1.2	1.30
	1.5	1.62
	2.0	2.13
	3.0	3.12
50 x 10	1.5	1.38
50 x 20	1.0	1.09
	1.2	1.30
	1.5	1.62
	2.0	2.13
50 x 25	1.2	1.42
	1.5	1.76
	2.0	2.32
	2.5	2.69
50 x 30	3.0	3.41
	1.2	1.50
	1.5	1.86
	2.0	2.45
50 x 30	2.5	2.92

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
50 x 30	3.0	3.45
	3.2	3.66
	4.0	4.46
	5.0	5.40
50 x 40	2.0	2.77
	3.0	4.08
60 x 10	1.5	1.62
60 x 20	1.2	1.50
	1.5	1.86
	2.0	2.45
60 x 30	1.2	1.69
	1.5	2.10
	2.0	2.77
	3.0	4.08
60 x 40	1.5	2.34
	2.0	3.09
	2.5	3.83
	3.0	4.56
	4.0	5.98
	5.0	6.97
70 x 20	6.3	8.49
	2.0	2.77
	2.0	3.41
	3.0	5.04
70 x 40	2.0	3.56
	2.5	4.39
	3.0	5.19
	4.0	6.71
80 x 20	2.0	3.09
80 x 30	3.0	5.04
80 x 40	1.5	2.81
	2.0	3.73
	2.5	4.63
	3.0	5.52
	3.2	5.67
	4.0	7.26
	5.0	8.94
	6.3	10.5
	8.0	12.8
80 x 50	3.0	6.00
	4.0	7.34
	5.0	9.01
	6.0	10.81
80 x 60	2.0	4.37
	3.0	6.47
	4.0	8.53
90 x 50	3.0	6.28
	3.6	7.46
	5.0	10.11
	6.3	12.5
100 x 40	8.0	15.3
	1.5	3.29
	2.0	4.37
	3.0	6.47
	4.0	8.53
100 x 40	5.0	10.66
	6.0	12.80

不銹鋼扁通 (續)

Stainless Steel Rectangular Hollow Section (Continued)

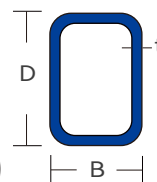


尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
100 x 50	2.0	4.69
	2.5	5.63
	3.0	6.95
	3.2	7.18
	4.0	9.17
	5.0	11.34
	6.3	13.4
100 x 60	8.0	16.6
	2.0	5.00
	3.0	7.43
	4.0	9.81
	3.6	8.59
	5.0	12.13
100 x 80	6.3	14.4
	8.0	17.8
	2.0	5.64
	3.0	8.39
	4.0	11.08
120 x 40	5.0	13.85
	6.0	16.62
	8.0	22.16
	2.0	5.00
120 x 60	3.0	7.43
	4.0	9.81
	5.0	12.26
	2.0	5.64
120 x 80	3.0	8.39
	3.6	9.72
	4.0	11.08
	5.0	13.73
	6.3	16.40
	8.0	20.40
120 x 100	2.0	6.28
	2.5	7.65
	3.0	9.34
	4.0	12.36
	5.0	15.32
	6.0	17.60
	6.3	18.4
	8.0	22.9
140 x 60	10.0	27.9
	3.0	9.45
	4.0	12.60
	5.0	15.74
	6.0	18.89
140 x 70	8.0	25.19
	3.0	8.79
	4.0	11.72
	5.0	14.65
	6.0	17.58
140 x 80	8.0	23.44
	10.0	29.30
	3.0	9.21
	4.0	12.28
	5.0	15.35
	6.0	18.41
	8.0	24.55
	10.0	30.69

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
140 x 100	3.0	11.27
150 x 50	2.0	6.28
	3.0	9.34
	4.0	12.56
	5.0	15.70
	6.0	18.84
150 x 80	3.0	10.77
	4.0	14.36
	5.0	17.95
	6.0	21.54
	8.0	28.72
150 x 100	10.0	35.90
	3.0	11.74
	4.0	15.55
	5.0	19.31
	6.0	22.30
	6.3	23.3
160 x 80	8.0	29.10
	10.0	35.70
	12.5	43.6
	3.0	11.26
	4.0	15.01
	5.0	18.51
	6.0	21.30
160 x 90	6.3	22.3
	8.0	27.90
	10.0	34.2
	12.5	41.6
	3.0	10.69
	4.0	14.25
	5.0	17.81
180 x 80	6.0	21.38
	8.0	28.50
	10.0	35.63
	12.0	42.75
180 x 100	3.0	11.34
	4.0	15.12
	5.0	18.89
	6.0	22.67
	8.0	30.23
	3.0	12.21
200 x 50	4.0	16.28
	5.0	20.35
	6.0	24.42
	8.0	32.55
	10.0	40.69
	12.0	48.83
200 x 80	3.0	11.25
	4.0	15.00
	5.0	18.75
	6.0	22.50
	3.0	12.39
	4.0	16.52
	5.0	20.65
	6.0	24.78
	8.0	33.04

不銹鋼扁通 (續)

Stainless Steel Rectangular Hollow Section (Continued)



尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
200 x 100	3.0	14.13
	4.0	18.74
	5.0	23.30
	6.0	27.00
	6.3	28.30
	8.0	35.40
	10.0	43.60
	12.5	53.40
200 x 120	16.0	66.40
	5.0	24.2
	6.3	30.3
	8.0	37.9
200 x 150	10.0	46.7
	12.5	57.3
	5.0	26.6
	6.3	33.2
250 x 100	8.0	41.7
	10.0	51.4
	12.5	63.2
	16.0	78.9
	5.0	26.6
250 x 150	6.3	38.20
	8.0	48.0
	10.0	59.3
	12.5	73
	16.0	91.5
300 x 100	6.3	38.2
	8.0	48
	10.0	59.3
	12.5	73
300 x 150	16.0	91.5
	4.0	27.00
	5.0	33.75
	6.0	40.50
	8.0	54.00
300 x 200	10.0	67.50
	12.5	81.00
	16.0	99.00

尺寸 Size	厚度 Thickness	單位重量 Mass per Unit Length
D x B (mm)	t (mm)	kg/m
300 x 200	6.3	48.10
	8.0	60.50
	10.0	75
	12.5	92.6
	16.0	117
300 x 250	6.3	53
	8.0	66.8
	10.0	82.8
	12.5	102
350 x 150	16.0	129
	6.3	48.1
	8.0	60.5
	10.0	75
350 x 250	12.5	92.6
	16.0	117
	8.0	73.1
	10.0	90.7
400 x 150	12.5	112
	16.0	142
	6.3	53
	8.0	66.8
400 x 200	10.0	82.8
	12.5	102
	16.0	129
	6.3	57.9
400 x 300	8.0	73.10
	10.0	90.70
	12.5	112
	16.0	142
450 x 250	10.0	106
	12.5	132
	16.0	167
500 x 200	8.0	85.7
	10.0	106
	12.5	132
500 x 300	16.0	167
	8.0	84.65
	10.0	105.82
	12.0	126.98
	8.0	96.91
	10.0	121.14
500 x 400	12.0	145.37
	16.0	195.99
	20.0	241.07
	25.0	297.38

備註:

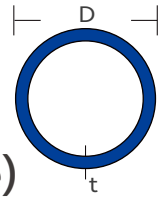
Remarks:

可根據客戶要求訂做非標尺寸不銹鋼管規格厚度，歡迎查詢。

Can be customized according to customer requirements of non-standard size stainless steel hollow section thickness. Welcome to inquire.

不銹鋼圓通（焊管）

Stainless Steel Circular Hollow Section(Welded type)

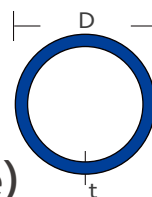


外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
15	1.0	0.35
	1.5	0.58
	2.0	0.65
16	1.0	0.38
	1.5	0.55
	2.0	0.70
	3.0	0.97
18	1.0	0.43
	1.5	0.62
	2.0	0.80
	3.0	1.21
20	1.0	0.48
	1.5	0.70
	2.0	0.90
	2.5	1.90
	3.0	1.27
21.3	1.5	0.74
	1.6	0.80
	2.0	0.97
	2.5	1.18
	2.6	1.22
	3.0	1.38
22	1.0	0.53
	1.5	0.77
	2.0	1.00
	2.5	1.21
	3.0	1.42
25	1.0	0.60
	1.5	0.88
	2.0	1.15
	2.5	1.41
	3.0	1.65
26.9	1.5	0.95
	1.6	1.01
	2.0	1.25
	2.5	1.53
	2.6	1.58
	3.0	1.80
	3.2	1.87
33.7	1.5	1.21
	1.6	1.29
	2.0	1.59
	2.5	1.95
	2.6	2.03
	2.9	2.24
	3.0	2.31
	3.2	2.44
	4.0	2.98
38	1.0	0.93
	1.5	1.38
	1.6	1.46
	2.0	1.82
	2.5	2.23
	3.0	2.64

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
42.4	1.5	1.54
	2.0	2.02
	2.5	2.50
	3.0	3.14
	4.0	3.79
	5.0	4.62
48.3	6.3	5.62
	1.2	1.42
	1.5	1.76
	2.0	2.32
	2.5	2.87
	3.0	3.40
	3.2	3.61
	4.0	4.44
	5.0	5.34
60.3	6.3	6.53
	1.2	1.78
	1.5	2.21
	2.0	2.92
	2.5	3.62
	3.0	4.30
	3.2	4.58
	4.0	5.64
	5.0	6.92
	6.3	8.4
	8.0	10.33
76.1	10.0	12.42
	1.2	2.25
	1.5	2.80
	2.0	3.71
	2.5	4.61
	3.0	5.49
	3.2	5.86
	4.0	7.22
	5.0	8.77
	6.3	10.86
	8.0	13.45
88.9	10.0	16.32
	1.2	2.64
	1.5	3.28
	2.0	4.35
	2.5	5.41
	3.0	6.45
	3.2	6.87
	4.0	8.50
	5.0	10.50
	6.3	12.85
101.6	8.0	15.98
	10.0	19.48
	1.5	3.76
	2.0	4.99
	3.0	7.41
	4.0	9.78
	5.0	11.93

不銹鋼圓通（焊管）

Stainless Steel Circular Hollow Section(Welded type)

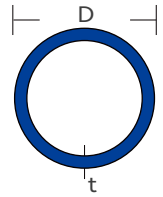


外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
114.3	1.5	4.24
	2.0	5.62
	2.5	7.02
	3.0	8.36
	4.0	11.05
	5.0	13.68
	6.3	16.8
139.7	1.5	5.19
	2.0	6.90
	3.0	10.27
	4.0	13.59
	5.0	16.86
	6.3	20.7
	8.0	26
168.3	2.0	8.33
	2.5	10.38
	3.0	12.42
	4.0	16.46
	5.0	20.44
	6.3	25.2
	8.0	31.6
	10.0	39
	12.0	46.3
193.7	5.0	23.3
	6.3	29.1
	8.0	36.6
	10.0	45.3
	12.5	55.9
219.1	2.0	10.87
	3.0	16.23
	4.0	21.54
	5.0	26.81
	6.3	33.1
	8.0	41.6
	10.0	51.6
	12.5	63.7
244.5	4.0	23.73
	5.0	29.5
	6.3	37
	8.0	46.7
	10.0	57.8
	12.5	71.5
	16.0	90.2
273	2.0	13.57
	3.0	20.28
	4.0	26.94
	5.0	33
	6.3	41.4
	8.0	52.3
	10.0	64.9
	12.5	80.3
	16.0	101

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
323.9	2.0	16.12
	3.0	24.11
	4.0	32.04
	5.0	39.3
	6.0	47
	6.3	49.3
	8.0	62.3
	10.0	77.4
	12.5	96
	16.0	121
355.6	8.0	68.6
	10.0	85.2
	12.5	106
	16.0	134
406.4	3.0	30.30
	4.0	40.30
	6.0	59.2
	8.0	78.6
	10.0	97.8
	12.5	121
	16.0	154
457.0	6.0	66.7
	8.0	88.6
	10.0	110
	12.5	137
	16.0	174
508.0	6.0	74.3
	8.0	98.6
	10.0	123
	12.5	153
	16.0	194
610.0	8.0	117.50
	10.0	146.00
	12.0	173.98
711.0	10.0	173.50
	12.0	207.00
813.0	12.0	238.00
914.0	12.0	270.0
1016.0	12.0	302.00
1219.0	10.0	292.76
	12.0	341.24
	16.0	431.19

不銹鋼無縫管

Stainless Steel Circular Hollow Section(Seamless type)

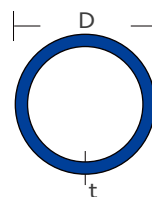


外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
15	1.0	0.35
	1.5	0.51
	2.0	0.65
	2.5	0.78
	3.0	0.90
	4.0	1.10
16	1.0	0.38
	1.5	0.55
	2.0	0.70
	2.5	0.85
	3.0	0.98
	3.5	1.10
18	1.0	0.43
	1.5	0.62
	2.0	0.80
	2.5	0.97
	3.0	1.13
	3.5	1.27
20	1.0	0.48
	1.5	0.70
	2.0	0.90
	2.5	1.10
	3.0	1.28
	3.5	1.45
21.3	1.6	0.79
	2.0	0.97
	2.6	1.22
	2.9	1.34
	3.2	1.45
22	1.0	0.53
	1.5	0.77
	2.0	1.00
	2.5	1.22
	3.0	1.43
	4.0	1.80
25	1.0	0.6
	1.5	0.88
	2.0	1.15
	2.5	1.41
	3.0	1.65
	3.5	1.88
	4.0	2.10
	5.0	2.50
26.9	1.6	1.01
	2.0	1.25
	2.3	1.42
	2.6	1.58
	2.9	1.74
	3.2	1.90
	4.0	2.29

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
33.7	1.6	1.29
	2.0	1.59
	2.6	2.03
	2.9	2.24
	3.2	2.45
	3.6	2.71
	4.05	3.01
	4.5	3.29
42.4	5.0	3.59
	1.6	1.64
	2.0	2.02
	2.6	2.59
	3.2	3.14
48.3	3.6	3.50
	4.05	3.89
	1.6	1.87
	2.0	2.32
	2.6	2.98
	2.9	3.30
	3.2	3.62
	3.6	4.03
	4.05	4.49
	4.5	4.94
60.3	5.0	5.42
	6.3	6.63
	7.1	7.33
	8.0	8.07
	1.6	2.35
	2.0	2.92
	2.6	3.76
	2.9	4.17
	3.2	4.58
	3.6	5.11
76.1	4.0	5.64
	4.5	6.29
	5.0	6.93
	6.3	8.52
	7.1	9.46
	8.0	10.48
	10.0	12.6
	2.0	4.25
	2.3	5.42
	2.6	4.79
	2.9	5.32
	3.2	5.84
	3.6	6.54
	4.0	7.22
	4.5	8.07
	5.0	8.91
	6.3	11.02
	7.1	12.27
	8.0	13.64
	10.0	16.56
	12.5	19.92

不鏽鋼無縫管 (續)

Stainless Steel Circular Hollow Section(Seamless type)



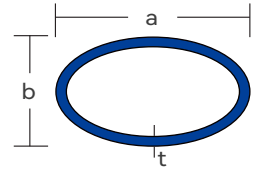
外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
88.9	2.0	4.35
	2.3	4.99
	2.6	5.62
	2.9	6.25
	3.05	6.56
	3.20	6.87
	3.6	7.69
	4.05	8.61
	4.5	9.51
	5.0	10.51
	5.49	11.47
	5.6	11.68
	6.3	13.04
	7.62	15.52
	10.0	19.76
	11.13	21.67
101.6	3.05	7.53
	3.6	8.84
	4.05	9.90
	5.0	12.10
	5.74	13.78
	6.3	15.03
114.3	8.08	18.92
	2.6	7.28
	3.05	8.50
	3.2	8.90
	3.6	9.98
	4.0	11.05
	4.5	12.38
	5.0	13.68
	5.4	14.73
	6.02	16.33
	7.1	19.06
	8.56	22.67
	11.13	28.75
	13.49	34.05
	14.2	35.59
	20.0	47.23

外徑 Outside Diameter	厚度 Thickness	單位重量 Mass per Unit Length
D (mm)	t (mm)	kg/m
139.7	4.0	13.60
	5.0	16.87
	6.3	21.04
	7.1	23.57
168.3	3.4	14.04
	4.5	18.46
	5.0	20.45
	6.3	25.56
	7.1	28.67
219.1	10.0	39.65
	3.76	20.27
	6.3	33.58
	8.18	43.22
	10.0	52.36
273	12.7	65.66
	9.27	61.24
323.9	12.7	82.81
	9.53	75.05
	10.31	80.94
	12.7	99.00
355.6	14.2	110.16
	9.53	82.62
406.4	12.7	109.09
	9.53	94.74
406.4	12.7	125.25



不銹鋼橢圓管

Stainless Steel Oval Tube



尺寸 Size	厚度(美標) (mm)					Thickness (American Standard) (mm)				
	0.8	0.9	1.0	1.2	1.5	1.5A	2.0	2.5	3.0	4.0
	厚度(英標) (mm)					Thickness (British Standard) (mm)				
a x b (mm)	0.7	0.8	0.9	1.0	1.2	1.35	1.7	2.25	2.7	3.5
18.9 x 25.3	0.78	0.90	1.01	1.12	1.34	1.51	1.90	2.52	3.02	3.92
15 x 30	0.83	0.95	1.07	1.19	1.43	1.61	2.02	2.68	3.21	4.16
18 x 33	0.93	1.07	1.20	1.33	1.60	1.80	2.27	3.00	3.60	4.66
20 x 30	0.89	1.02	1.15	1.28	1.53	1.73	2.17	2.88	3.45	4.47
20 x 34.3	0.99	1.13	1.27	1.41	1.69	1.90	2.39	3.17	3.80	4.93
21 x 61	1.60	1.83	2.06	2.29	2.74	3.09	3.89	5.15	6.18	8.01
23 x 38	1.10	1.26	1.42	1.57	1.89	2.13	2.68	3.54	4.25	5.51
24.9 x 40	1.17	1.34	1.50	1.67	2.00	2.26	2.84	3.76	4.51	5.85
30 x 60	1.66	1.90	2.14	2.38	2.85	3.21	4.04	5.35	6.42	8.32
30 x 70	1.89	2.16	2.43	2.70	3.24	3.65	4.59	6.08	7.29	9.45
31 x 62	1.72	1.97	2.21	2.46	2.95	3.32	4.18	5.53	6.64	8.60
32 x 64	1.78	2.03	2.08	2.54	3.04	3.42	4.31	5.71	6.85	8.88
35 x 55	1.62	1.85	2.08	2.31	2.77	3.12	3.93	5.20	6.24	8.09
34 x 80	2.16	2.47	2.77	3.08	3.70	4.16	5.24	6.93	8.32	10.79
35 x 80	2.17	2.48	2.79	3.10	3.72	4.18	5.26	6.97	8.36	10.84
40 x 60	1.79	2.05	2.30	2.56	3.07	3.45	4.35	5.75	6.90	8.95
40 x 80	2.42	2.77	3.11	3.46	4.15	4.67	5.88	7.78	9.34	12.11
40 x 110	2.90	3.32	3.73	4.15	4.98	5.60	7.05	9.34	11.20	14.52
42 x 75	2.13	2.44	2.74	3.05	3.66	4.11	5.18	6.86	8.23	10.67
46 x 100	2.73	3.12	3.51	3.90	4.68	5.27	6.63	8.78	10.54	13.66
50 x 100	2.77	3.17	3.57	3.96	4.76	5.35	6.74	8.92	10.70	13.87
50 x 120	3.23	3.69	4.15	4.61	5.53	6.22	7.84	10.37	12.44	16.13
50 x 150	3.92	4.48	5.05	5.61	6.73	7.57	9.53	12.61	15.14	19.62
57 x 93	2.71	3.09	3.48	3.87	4.64	5.22	6.57	8.70	10.44	13.54
60 x 90	2.68	3.07	3.45	3.83	4.60	5.18	6.52	8.63	10.35	13.42
60 x 120	3.33	3.81	4.28	4.76	5.71	6.42	8.09	10.70	12.84	16.65
78 x 145	4.09	4.67	5.25	5.84	7.00	7.88	9.92	13.13	15.76	20.43
80 x 142	4.04	4.62	5.20	5.78	6.93	7.80	9.82	13.00	15.60	20.22
90 x 180	4.99	5.71	6.42	7.14	8.56	9.63	12.13	16.05	19.26	24.97
95 x 180	5.05	5.77	6.49	7.22	8.66	9.74	12.27	16.24	19.48	25.26
100 x 200	5.55	6.34	7.14	7.93	9.51	10.70	13.48	17.84	21.41	27.75

備註:

Remarks:

可根據客戶要求訂做非標尺寸不銹鋼管規格厚度，歡迎查詢。

Can be customized according to customer requirements of non-standard size stainless steel hollow section thickness. Welcome to inquire.

空心型鋼的製造

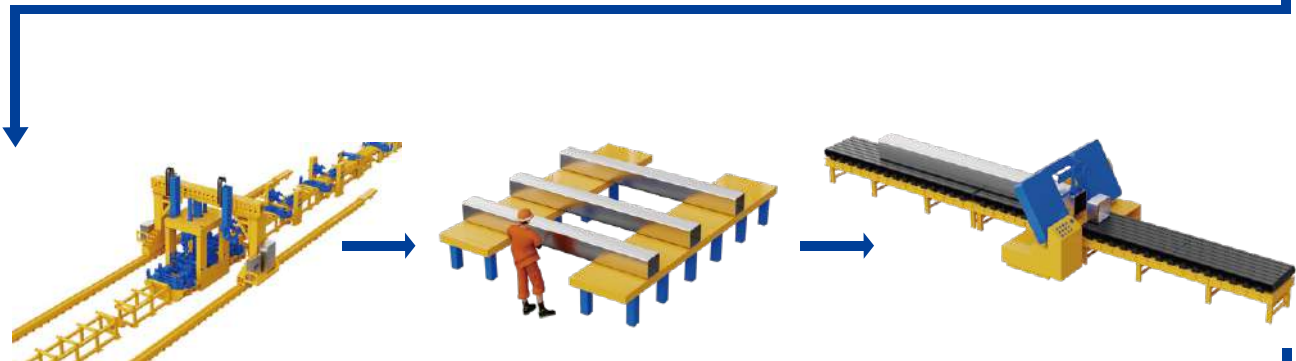
Fabricate of Hollow Steel Sections



板材開料 • Sheet cutting

板材折彎 • Sheet bending

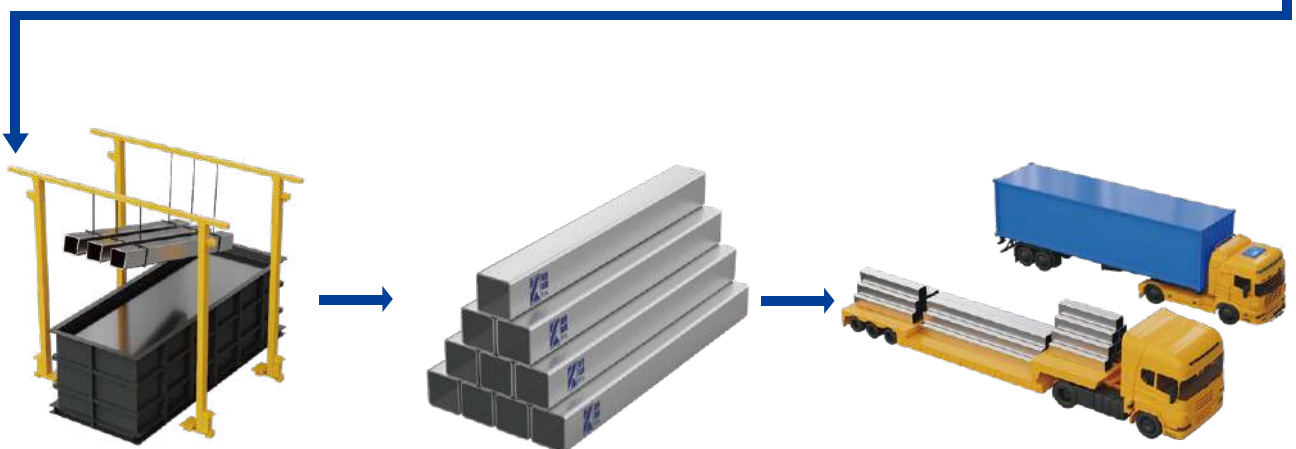
管材成型 • Tube forming



雷射焊接 • Laser welding

成品檢測修復 • Finished product inspection and repair

鋸床切割 • Sawing



清洗酸洗 • Cleaning and pickling

噴碼標籤 • Coding and Labeling

包裝出貨 • Packing and shipping

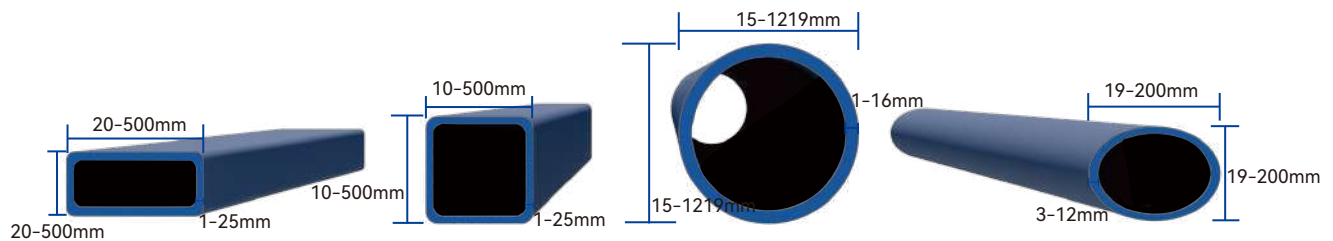
尺寸範圍 Size Range

我們開發了一系列不銹鋼/超級雙相不銹鋼空心結構型材和工程設計實踐的型材，並使其更容易指定符合建築產品法規的CE 標誌空心結構型材。

我們的產品零件均在中國生產，因此您可以放心，我們的產品具有完全可追溯性，可持續採購和製造，並按照最高標準進行測試，並獲得相應的認證。

We have developed a range of stainless steel/super duplex stainless steel hollow structural sections and engineered design practices, making it easier to specify CE-marked hollow structural sections that comply with the construction products regulation.

Our components are manufactured in China, so you can be assured that our products are fully traceable, sustainably sourced and manufactured, tested to the highest standards, and carry the appropriate certifications.



■ 如需了解更多信息，請聯繫我們。

For more information, please contact us.



表面處理

Surface Treatment

不銹鋼管交貨表面處理

Surface treatment of stainless steel pipe delivery

BS EN完成面表面處理等級 BS EN Finish	舊英標完成面表面處理等級 Old BS Finish	說明 Description
熱軋 Hot Rolled		
1C	0	熱軋，熱處理，未除銹 Hot rolled, heat treated, not descaled
1E	1	熱軋，熱處理，機械除銹 Hot rolled, heat treated, mechanically descaled
1D	1	熱軋，熱處理，酸洗 Hot rolled, heat treated, mechanically descaled
1U	—	熱軋，未熱處理，未除銹 Hot rolled, not heat treayed, not descaled
冷軋 Cold Rolled		
2C	—	冷軋，熱處理，未除銹 Cold rolled, heat treated, not descaled
2E	—	冷軋，熱處理，機械除銹 Cold rolled, heat treated, mechanically descaled
2D	2D	冷軋，熱處理，酸洗 Cold Rolled, heat treated, pickled
2B	2B	冷軋，熱處理，酸洗，去皮 Cold Rolled, heat treated, pickled,skin passed
2R	2A/(BA)	冷軋，光亮退火 Cold Rolled bright annealed
2Q	—	冷軋，淬火和回火，無氧化皮 Cold Rolled,hardened &tempered, scale free

BS EN完成面表面處理等級 BS EN Finish	舊英標完成面表面處理等級 Old BS Finish	特殊表面說明 Special Finishes Description	砂礫度 Typical Grit	粗糙度 Roughness
1G or 2G	—	磨砂 Ground Grit	120	2.5~2.0
1J or 2J	3B	單向拉絲 Brushed-Unidirectional	180	1.2~1.0
1J or 2J	4	單向無光澤拋光 Dull Polished-Unidirectional	240	0.6
1K or 2K	5	單向緞面拋光 Satin Polished-Unidirectional	320	0.5max.
1P or 2P	7	光亮拋光-不定向修整，成像清晰度高 Bright Polished -NonDirectional with a high degree of image clarity	600	0.1
1P or 2P	8	鏡面拋光-不定向修整，成像清晰度極高 Mirror Finish -NonDirectional with a very high degree of image clarity	800	0.05
1M or 2M	—	帶圖案 Patterned		
2L	—	帶顏色 Coloured		
2W	—	波紋狀 Corrugated		
1S or 2S	—	表面塗層（金屬塗層：如錫、鉛或鋁） Surface Coated (Metallic coatings such as tin, lead or aluminium		

證書模板

Certificate Template



PEAK KONG SPECIAL STEEL

Address: Add: Building 1, No.6, Jinhai 1st Road,
Xiegang Town, Dongguan City, Guangdong Province P.R.
China

EN 10219-2006

Hollow section structure produced by Stainless
steel material (cold formed)
Grade 1.4404 according EN 10219-2006

Structure/fabrications in accordance with EN 1090, when
supplied with 3.1 certification to EN 10204 containing
product identification details.

Information on regulated characteristics in accordance with
EN10219 for:

Elongation:
Tensile Strength:
Yield Strength:
Impact Strength:
Weldability:
Durability:

Dangerous Substances: No Performance Determined

PEAKKONG Special Steel Technology(Guangdong)Co.,Ltd

PRODUCT	Laser welding SHS		
MATERIAL LENGTH	100*100*8	LENGTH	6M
STANDARD	EN10219-1 EN15614-14	GRADE	1.4404
HEAT NO	25032528	DATE	2025/03/04

 煌港特鋼
PEAK KONG
SPECIAL STEEL

UK
CA
0038

CE
0638

MADE IN CHINA





INSPECTION CERTIFICATE
EN10204-3.1

Address: Add: No. 1 Building 1, No. 6 Xiegang Jinhai Road,
Xiegang Town, Dongguan City, Guangdong Province.
Tel: 0769-82869307 Fax:0769-82869201

PEAKKONG Special Steel Technology (Guangdong) Co.,Ltd

CUSTOMER	HK Huangshangyou Steel industrial limited		PRODUCT	Laser fused welding rectangle tube		CERTIFICATE NO.	20250506012										
PURCHASER	HK Huangshangyou Steel industrial limited		CONTRACT NO.	20250219-008		DATE OF DELIVERY	2025/3/4										
GRADE	1.4404		ORDER NO			DATE OF ISSUE	2025/3/4										
SPECIFICATION	EN10219-1 EN15614-14		SOLUTION TREATED AND PICKLING	Industrial surface		SGS ISO9001 CERTIFICATE NUMBER	CN23/00005883										
order number	SAMPLE NO	HEAT NO.	MATERIAL DESCRIPTION	Qty	KG WEIGHT	CHEMICAL COMPOSITION (HEAT ANALYSIS) %											
			DIMENSION			C	Si	Mn	P	S	Cr	Ni	Mo	N	Ti		
1	250503-012	25032528	100*100*8mm*6m	50	6870.00	0.024	0.50	1.15	0.023	0.004	16.54	10.05	2.03	0.069			
C TOTAL				50	6870.00												
	SAMPLE NO	TENSILE TEST			BEND	IMPACT TEST				INTERGRANULAR CORROSION TEST							
		Tensile Strength (T.S.)	Yield Strength (Y.S.)	Elongation (EL.)		BEND	Direction	Temperature °C	ABSORBED ENERGY (J)								
		Re	Rp0.2	A					HRC					1	2	3	AVG
		%	%	%													
1	250503-012	606	281	61	/	/											
REMARKS		1.THE PRODUCTS HAVE PASSED THE ISO9001 QUALITY CERTIFICATION LICENSE 2.WE HEREBY CERTIFY THE ABOVE STATEMENT TO BE TRUE AND CORRECT IN EVERY DETAIL 3.The material is free From Radioactive Contamination 4.Dimension Control. Visual Inspection Acc.To EN10219-1 & EN15614-14															
NOTES		EL: (Elongation). Y.S. : (Yield Strength). T.S: (Tensile Strength). A.E AVE.															



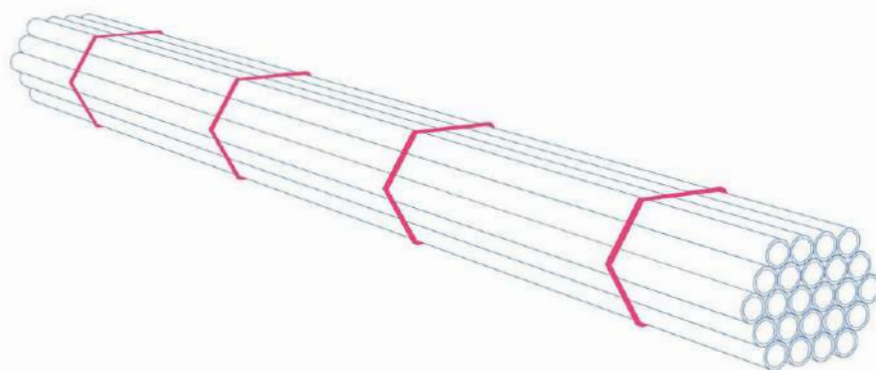
加工服務

Processing Services



包裝/運輸

Packaging/Shipping

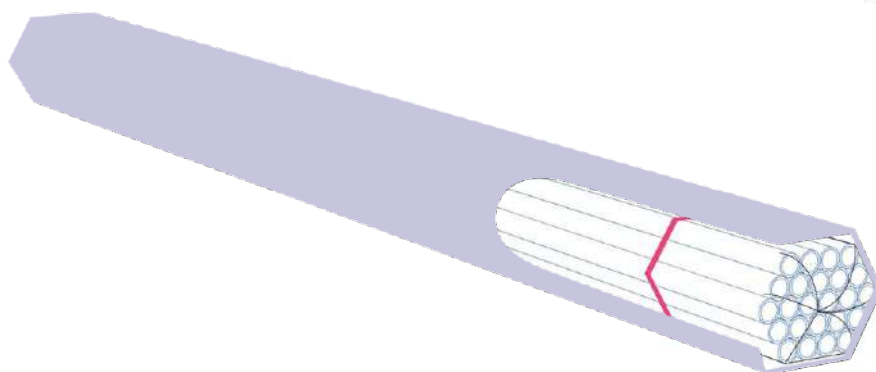
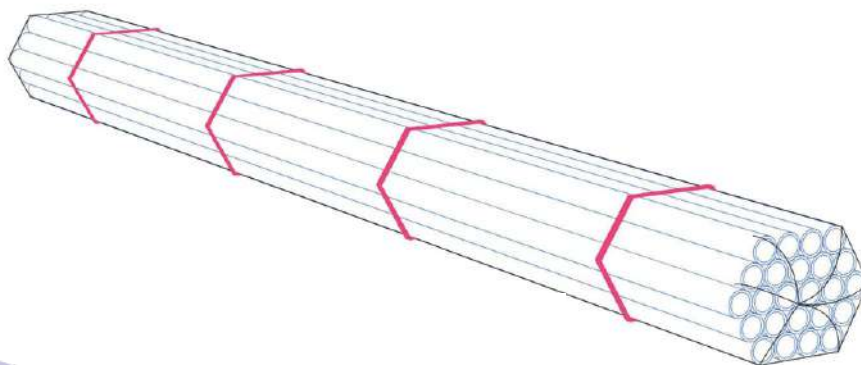


鐵絲或PP繩包裝

Iron Wire or PP Rope Packaging

聚乙烯薄膜包裝

Polyethylene Film Packaging

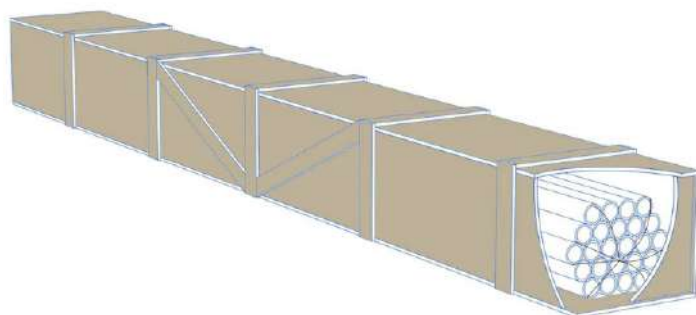
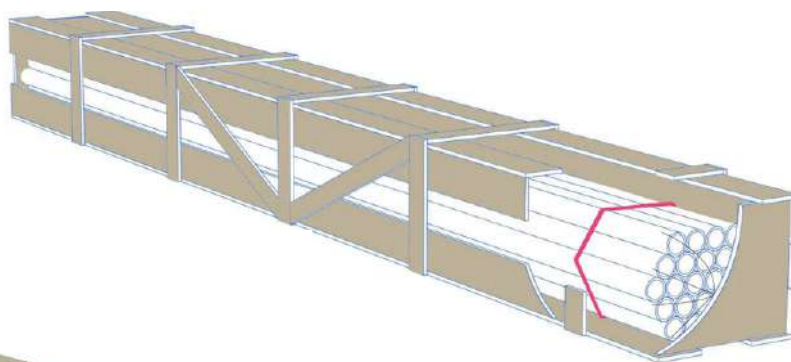


氣泡膜包裝

Bubble Film Packaging

木架包裝

Wooden Frame Packaging



木箱包裝

Wooden Box Packaging

歐洲標準 European Standard EN10088-2

不銹鋼-第2部分：一般用途耐腐蝕鋼板板材和帶材的交貨技術條件

Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

鋼牌號名稱 Steel Designation Name	編號 Number	產品形式 Product form	厚度 Thickness	0.2%驗證強度	1%驗證強度	抗拉強度 Tensile Strength	斷裂延伸率 Elongation after Fracture		衝擊能量 Impact Energy(ISO-V)		耐晶間腐蝕性 Resistance to Intergranular Corrosion	
				0.2%- Proof Strength	1%- Proof Strength		A<3mm	A≥3mm	KV ₂ >10mm		交貨狀態下 in the Delivery Condition	敏化處理狀態下 in the Sensitized Condition
			max.(mm)	min.(MPa)	min.(MPa)	MPa	min.(%)	min.(%)	min.(J)(long.)	min.(J)(tr.)		
X2CrNi18-9	1.4307	C	8	220	250	520~700	45	45	—	—	Yes	Yes
		H	13.5	200	240	520~700			100	60		
		P	75	200	240	500~700			100	60		
X2CrNiN18-10	1.4311	C	8	290	320	550~750	40	40	—	—	Yes	Yes
		H	13.5	270	310				100	60		
		P	75	270	310				100	60		
X5CrNi18-10	1.4301	C	8	230	260	540~750	45	45	—	—	Yes	No
		H	13.5	210	250	520~720			100	60		
		P	75	210	250	520~720			100	60		
X2CrNi19-11	1.4306	C	8	220	250	520~700	45	45	—	—	Yes	Yes
		H	13.5	200	240	520~700			100	60		
		P	75	200	240	500~700			100	60		
X2CrNiMo N17-11-2	1.4406	C	8	300	330	580~780	40	40	—	—	Yes	Yes
		H	13.5	280	320				100	60		
		P	75	280	320				100	60		
X2CrNiMo 17-12-2	1.4404	C	8	240	270	530~680	40	40	—	—	Yes	Yes
		H	13.5	220	260	530~680	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X5CrNiMo 17-12-2	1.4401	C	8	240	270	530~680	40	40	—	—	Yes	No
		H	13.5	220	260	530~680	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X6CrNiMo Ti17-12-2	1.4571	C	8	240	270	540~690	40	40	—	—	Yes	Yes
		H	13.5	220	260	540~690			100	60		
		P	75	220	260	520~670			100	60		
X2CrNiMo 17-12-3	1.4432	C	8	240	270	550~700	40	40	—	—	Yes	Yes
		H	13.5	220	260	550~700	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		
X2CrNiMo 18-14-3	1.4435	C	8	240	270	550~700	40	40	—	—	Yes	Yes
		H	13.5	220	260	550~700	40	40	100	60		
		P	75	220	260	520~670	45	45	100	60		

歐洲標準 European Standard EN10088-2

不銹鋼-第2部分：一般用途耐腐蝕鋼板板材和帶材的交貨技術條件
Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

鋼牌號名稱 Steel Designation Name	編號 Number	產品形式 Product form	厚度 Thickness	0.2%驗證強度	1%驗證強度	抗拉強度 Tensile Strength	斷裂延伸率		衝擊能量		耐晶間腐蝕性	
				0.2%- Proof Strength	1%- Proof Strength		Elongation after Fracture		Impact Energy(ISO-V)		Resistance to Intergranular Corrosion	
			max.(mm)	min.(MPa)	min.(MPa)		A<3mm	A≥3mm	KV ₂ >10mm		交貨狀態下 in the Delivery Condition	敏化處理狀態下 in the Sensitized Condition
X5CrNiN19-9	1.4315	C	8	290	320	500~750	40	40	100	60	Yes	No
		H	13.5	270	310							
		P	75	270	310							
X12CrMnNi N17-7-5	1.4372	C	8	350	380	680~880	45	45	—	—	Yes	No
		H	13.5	330	370							
		P	75	330	370							
X3CrNiMo 17-13-3	1.4436	C	8	240	270	550~700 550~700 530~730	40	40	—	—	Yes	No
		H	13.5	220	260							
		P	75	220	260							
X2CrNiMo N17-13-3	1.4429	C	8	300	330	580~780	35	35	—	—	Yes	Yes
		H	13.5	280	320							
		P	75	280	320							

C=冷軋帶鋼；H=熱軋帶鋼；P=熱軋板
C=cold rolled strip; H=hot rolled strip; P=hot rolled plate.

鋼牌號名稱 Steel Designation Name	編號 Number	化學成份 Chemical Composition % by mass										
		C	Si	Mn	P	S	Cr	Mo	Ni	N	Cu	Others
X2CrNi18-9	1.4307	0.030	1.00	2.00	0.045	0.015	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNi18-10	1.4311	0.030	1.00	2.00	0.045	0.015	17.5~19.5	—	8.5~11.5	0.12~0.22	—	—
X5CrNi18-10	1.4301	0.07	1.00	2.00	0.045	0.015	17.5~19.5	—	8.0~10.5	0.10	—	—
X2CrNi19-11	1.4306	0.030	1.00	2.00	0.045	0.015	18.0~20.0	—	10.0~12.0	0.10	—	—
X2CrNiMoN17-11-2	1.4406	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~12.5	0.12~0.22	—	—
X2CrNiMo17-12-2	1.4404	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X5CrNiMo17-12-2	1.4401	0.07	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.0~13.0	0.10	—	—
X6CrNiMoTi17-12-2	1.4571	0.08	1.00	2.00	0.045	0.015	16.5~18.5	2.00~2.50	10.5~13.5	—	—	Ti:5xC~0.70
X2CrNiMo17-12-3	1.4432	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMo18-14-3	1.4435	0.030	1.00	2.00	0.045	0.015	17.0~19.0	2.50~3.00	12.5~15.0	0.10	—	—
X5CrNi19-9	1.4315	0.06	1.00	2.00	0.045	0.015	18.0~20.0	—	8.0~11.0	0.12~0.22	—	—
X12CrMnNiN17-7-5	1.4372	0.15	1.00	5.5~7.5	0.045	0.015	16.0~18.0	—	3.5~5.5	0.05~0.25	—	—
X3CrNiMo17-13-3	1.4436	0.05	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	10.5~13.0	0.10	—	—
X2CrNiMoN17-13-3	1.4429	0.030	1.00	2.00	0.045	0.015	16.5~18.5	2.50~3.00	11.0~14.0	0.12~0.22	—	—

歐洲標準 European Standard EN10088-2

不銹鋼-第2部分：一般用途耐腐蝕鋼板板材和帶材的交貨技術條件
Stainless steels-Part 2:Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes

鋼牌號名稱 Steel Designation Name	編號 Number	熱處理狀態 Heat Treatment Condition	最小0.2%驗證強度 Minimum 0.2%-Proof Strength (MPa)										最小1%驗證強度 Minimum 1%-Proof Strength (MPa)									
			溫度為 at a temperature of (°C)																			
			100	150	200	250	300	350	400	450	500	550	100	150	200	250	300	350	400	450	500	550
X2CrNi18-9	1.4307	+AT	147	132	118	108	100	94	89	85	81	80	181	162	147	137	127	121	116	112	109	108
X2CrNiN18-10	1.4311	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	161	156	152	149	147
X5CrNi18-10	1.4301	+AT	157	142	127	118	110	104	98	95	92	90	191	172	157	145	135	129	125	122	120	120
X2CrNi19-11	1.4306	+AT	147	132	118	108	100	94	89	85	81	80	181	162	147	137	127	121	116	112	109	108
X2CrNiMoN17-11-2	1.4406	+AT	211	185	167	155	145	140	135	131	128	127	246	218	198	183	175	169	164	160	158	157
X2CrNiMo17-12-2	1.4404	+AT	166	152	137	127	118	113	108	103	100	98	199	181	167	157	145	139	135	130	128	127
X5CrNiMo17-12-2	1.4401	+AT	177	162	147	137	127	120	115	112	110	108	211	191	177	167	156	150	144	141	139	137
X6CrNiMoTi17-12-2	1.4571	+AT	185	177	167	157	145	140	135	131	129	127	218	206	196	186	175	169	164	160	158	157
X2CrNiMo17-12-3	1.4432	+AT	166	152	137	127	118	113	108	103	100	98	199	181	167	157	145	139	135	130	128	127
X2CrNiMo18-14-3	1.4435	+AT	165	150	137	127	119	113	108	103	100	98	200	180	165	153	145	139	135	130	128	127
X5CrNiN19-9	1.4315	+AT	205	175	157	145	136	130	125	121	119	118	240	210	187	175	167	161	156	152	149	147
X12CrMnNiN17-7-5	1.4372	+AT	295	260	230	220	205	185	—	—	—	—	325	295	265	250	230	205	—	—	—	—
X3CrNiMo17-13-3	1.4436	+AT	177	162	147	137	127	120	115	112	110	108	211	191	177	167	156	150	144	141	139	137
X2CrNiMoN17-13-3	1.4429	+AT	211	185	167	155	145	140	135	131	129	127	246	218	198	183	175	169	164	160	158	157

不銹鋼牌號對照

Stainless Steel Grade Comparison

British	French	German	Italian	Japanese	Swedish	USA
304S21	Z12CN17.08	1.4310	X12CrNi 17 07	SUS301	14 23 31	301
304S31				SUS302	14 23 32	302
304S15 304S16	Z8CN18.09	1.4301	X5CrNi 18 10	SUS301	14 23 33	304
304S11	Z2CN18.10	1.4306	X2CrNi 18 11	SUS304L	14 23 52	304L
305S19	Z8CN18.12		X8CrNi 18 12	SUS305		305
309S24	Z15CN24.13		X16CrNi 23 14	SUS309		309
310S24	Z12CN25.20	1.4845	Z22CrNi 25 20	SUS310S	14 23 61	310
315S16					14 23 40	
316S31 316S33	Z6CND17.11	1.4401 1.4436	X8CrNiMo 17 13	SUS316	14 23 43 14 23 47	316
316S11 316S13	Z2CND17.12	1.4404 1.4435	X2CrNiMo 17 12	SUS316L	14 23 53 14 23 48	316L
317S12	Z2CND19.15	1.4435	X2CrNiMo 18 16	SUS317L	14 23 67	317L
317S16		1.4436		SUS317	14 23 66	317
320S31 320S33	Z8CND17.12	1.4571 1.4573			14 23 50	
321S31	Z6CNT18.12	1.4541	X6CrNiTi 18 11	SUS321	14 23 37	321
347S31	Z6CNNb18.11	1.4558	X6CrNiNb 18 11 X8CrNiNb 18 11	SUS347	14 23 38	347
403S17	Z6C13	1.4000	X6Cr13	SUS403	14 23 01	403
405S17	Z6CA13	1.4002	Z6CrA1 13	SUS405		405
409S19		1.4512				409
430S17	Z8C17	1.4016	X8Cr 17	SUS430	14 23 20	430
434S17	Z8CD17.01	1.4113	X8CrMo 17	SUS434	14 23 25	434
410S21	Z12C13	1.4006 1.4024	X12Cr 13	SUS410	13 23 02	410
410S45	Z30C13		X30Cr 13	SUS420JS	14 23 04	420



煌港
特鋼

PEAK KONG
SPECIAL STEEL

PEAKKONG Special Steel

Unit B, 9/F
Worldwide Centre
123 Tung Chau Street
Tai Kok Tsui
Kowloon
Hong Kong
香港九龍大角咀通州街123號國貿中心9樓B室

Building 1, No.6
Jinhai 1st Road
Xiegang Town
Dongguan City
Guangdong Province
P.R. China
中國廣東省東莞市謝崗鎮金海一路6號1棟

Tel: +852-29811161
Phone: +852-92999655 +852-92992995
E-mail: sales@peakkong.com
Web: www.peakkong.com.hk