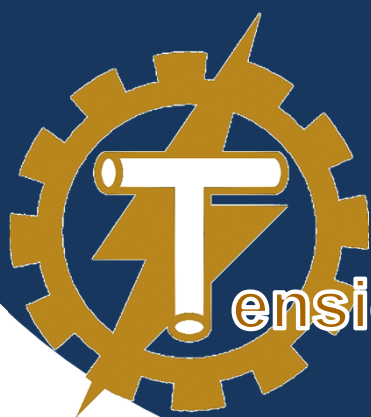


天聲工業 股份有限公司



Tension Steel Industries Co., Ltd.

STEEL TUBE
PROFESSIONALS



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STEEL TUBE PROFESSIONALS
專業鋼管製造廠

經營者的話

Message from the Chairman



董事長 Chairman

張水圳 CHANG, SHUI-CHUN



經營理念 Management Concept

顧客至上
Customer First

品質保證
Quality Assurance

追求卓越
Pursuit Excellence

持續改善
Continuous Improvement

天聲自1973年創業以來，專業經營各式鋼管、鋼捲、鋼板、鋼帶產品，以「優良的品質」、「實惠的價格」、「準確的交期」、以及「良好的售後服務」逐漸贏取客戶的信賴，擴大在國內外市場中的地位。為了確保產品的品質，天聲取得ISO 9001等品質證書，並建構了一套完整的環境、品質管理流程。另外，迄今也獲得許多國際機構認證，如JIS、API、CNS 認證等等。

為滿足時代的需求及變遷，天聲專注於技術的革新及新產品的開發，秉持著「專注求精」的理念，不管是遇到多麼困難的事情，即便要花無數的時間與精力，也要製作出能夠使客戶安心的優質產品。而我們的全體同仁也都為了這個經營理念努力奮鬥著，對我們來說，滿足客戶並為了社會繁榮貢獻一份心力是最有成就感的事情，希望今後也能夠得到您的支持，有機會與您合作。

Tension Steel has been specializing in steel pipes, coils, sheets, plates and strips since its founding in 1973. Over the years we have earned the trust of our customers with high-quality products, reasonable prices, accurate shipment and best after-sales service. To ensure consistent quality of our products, Tension Steel acquired ISO 9001 certification and built a complete system for environment and quality management. Furthermore, we have been certified by JIS, API, CNS, and many other international organizations as well.

Tension Steel has been focusing on technological innovation and product development within our company's philosophy "Focus on refinement". Our core company value lies in achieving customer satisfaction as well as contributing to the prosperity of our society. We are looking forward to have an opportunity to work with you in the near future.



公司指南 Company Profile

- * 負責人：董事長 張水圳 / Chairman : CHANG, SHUI-CHUN
- * 成立時間：1973年6月 / Founded : June, 1973
- * 資本額：12億元 / Capital : NT\$1,200,000,000
- * 月生產數量：約1.7萬噸 / Production Capacity : Approx. 17,000 metric tons/month
- * 年營業額：45.6億 (2018年度) / Annual Revenue : NT\$4,560,000,000 (YEAR 2018)
- * 員工人數：200名 / Number of employees : >200

2018年營業額 2018 ANNUAL REVENUE

鋼捲、鋼板、鋼帶和其他
COIL, SHEET, PLATE, STRIP and
OTHERS

36%

鋼管
PIPES
64%



總公司 Headquarters

地址：104083台北市建國北路二段127號9樓
Add : 9F, No. 127, Sec 2, Chien-Kuo North Road, Taipei, 104083, Taiwan
電話 Tel : +886-2-25006206
傳真 Fax : +886-2-25080398
外銷業務部 Overseas Sales Dept. : export_sales@tensionx.com.tw
Website : <http://www.tensionx.com.tw>



新竹倉庫 HsinChu Warehouse

地址：300104新竹市南港街23號
Add : No. 23, Nangang Street, Xiangshan Dist.,
Hsinchu City, 300104, Taiwan
電話 Tel : +886-3-5372167
傳真 Fax : +886-3-5374165
土地面積 Site Area : 18,259m²
廠房面積 Floor Space : 11,238m²



岡山工廠 GangShan Mill

地址：820110高雄市岡山區本工西路23號
Add : No. 23, Bengong West Road, Gangshan
Dist., Kaohsiung City, 820110, Taiwan
電話 Tel : +886-7-6242831
傳真 Fax : +886-7-6242836
土地面積 Site Area : 13,168m²
廠房面積 Floor Space : 7,953m²



路竹工廠 LuZhu Mill

地址：821002高雄市路竹區環球路18號
Add : No.18, Huanciou Road, Luzhu Dist., Kaohsiung City, 821002, Taiwan
電話 Tel : +886-7-2621968
傳真 Fax : +886-7-6951528
土地面積 Site Area : 94,300m²
廠房面積 Floor Space : 41,388m²



歷史沿革 Company History



“Tension Electronics Co., Ltd.” founded in Taipei, factory built in Guishan, and Taoyuan.

Hsinchu mill expanded, and HDG production line installed.

New mill built in Gangshan, Kaohsiung and started to develop export business.

Obtained UL6 RMC Certification.

Company's Chinese name modified.

Luzhu mill expanded. Promotes API products for more sizes. All pipe production lines integrated.

A new HDG production line was installed at Gangshan mill and started to develop the market.

成立「天聲電子股份有限公司」於台北，並設立工廠於桃園龜山工業區

建廠於新竹市香山工業區，增設熱浸鍍鋅產線

於高雄市岡山本洲工業區建廠，開始規劃及拓展外銷業務

取得美國 UL6 RMC證書



變更公司名稱為「天聲工業股份有限公司」

於高雄市路竹區建置路竹廠，拓展API產品尺寸並整合所有鋼管產線

於岡山廠增設熱浸鍍鋅產線，規劃外銷至全球

1973

1980

1990

1996

2004

2005

2007

2009

2010

2014

2019

2020

2021

更名為「天聲鋼鐵工業股份有限公司」

“Tension Electronics Co., Ltd.” renamed to “Tension Steel Industries Co., Ltd.”



取得ISO9001證書及 CNS國家標準證書

Obtained ISO 9001 and CNS certifications.

取得美國General Motors USA車廠及日本Toyota車廠合格供應商證書

Approved as a qualified supplier by General Motor USA and Toyota Motor Corporation.



取得美國石油協會認證，並開始外銷API相關產品。

Obtained API Certification and started to provide SCT and 5L products.



取得日本JIS證書

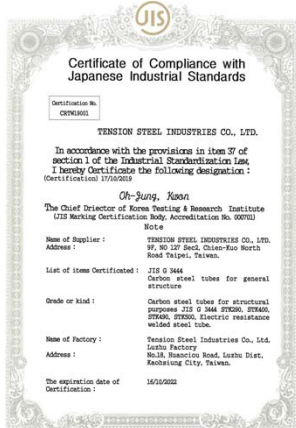
Obtained JIS Certification.

路竹廠增設新管線、擴增產品尺寸，建置智慧工廠，優化產線製程

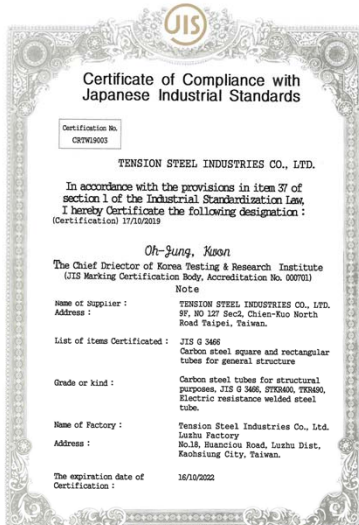
New production line installed at Luzhu mill. Product size range expanded. Smart manufacturing implementation starts.



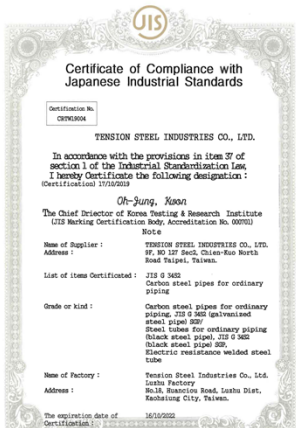
國際認證 Certification



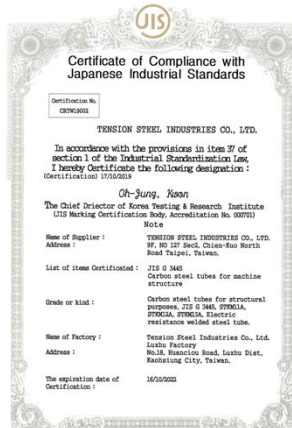
JIS G 3444



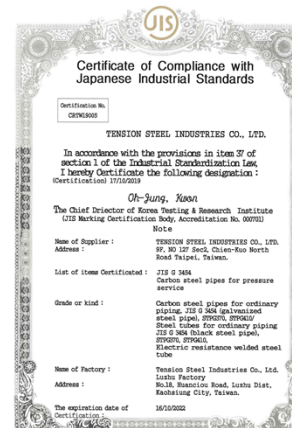
JIS G 3466



JIS G 3452



JIS G 3445



JIS G 3454



API 5CT



API 5L

Certificate of Registration

This is to certify that the
QUALITY MANAGEMENT SYSTEM

of

Tension Steel Industries Co., Ltd.

No. 16, Huanqui Rd., Luzhu Dist., Kaohsiung City, TAIWAN, R.O.C.

for

Manufacture of Galvanized Steel Pipe Conduit for Electric Wire and Cable, Carbon Steel for General Structures, Carbon Steel for Machine Structures, Carbon Steel for Pressure Service, Carbon Steel for Ordinary Piping and Carbon Steel Square and Rectangular Tubes for General Structures

has been assessed and registered against the provisions of

ISO 9001:2015

International Standard with

Registration Number: 16QMS8864
Registration Date: 08 Dec., 2016
Issue Date: 19 Nov., 2019
Expiration Date: 07 Dec., 2022
Cycle Start Date: 08 Dec., 2019

Certificate Approval:



UNIVERSAL CERTIFICATION SERVICE CO., LTD.

1. The certificate is the property of Universal Certification Service Co., Ltd. 401, No. 21, Sec. 4, Nanjing E. Rd., Songshan District, Taipei City, Taiwan, R.O.C.
2. The registration information and authority of the certificate can be confirmed on our website.
3. Registration is subject to the management system being continually maintained to the latest standard under regular surveillance audit. Should surveillance audit fail, please allow requests, registration shall be reviewed.

登錄證書

此證書授予

天聲工業股份有限公司

高雄市中區復興路18號

其範圍如下

電線電纜用鍍鋅鋼管、一般結構鋼管、機械結構鋼管、壓力配管用、配管用及一般結構用正方形及矩形之碳鋼鋼管之製造

之品質管理系統符合以下標準

ISO 9001:2015

驗證機構已通過並予以登錄

登錄號碼: 16QMS8864
登錄日期: 2016年12月08日
發證日期: 2019年11月19日
失效日期: 2022年12月07日
驗證有效期間: 2019年12月08日

註 冊 人



環球國際驗證股份有限公司

UNIVERSAL CERTIFICATION SERVICE CO., LTD.

1. 本證書為環球國際驗證股份有限公司之財產，地址：台北市松山區南京東路四段21號401室。
2. 本證書之註冊資訊及權威性可於本公司之網站上進行確認。
3. 本證書之註冊資訊及權威性須維持最新標準，並接受定期之監督審核。若監督審核失敗，請於規定期限內提出改善，否則將被吊銷註冊。



國內認證
Certification



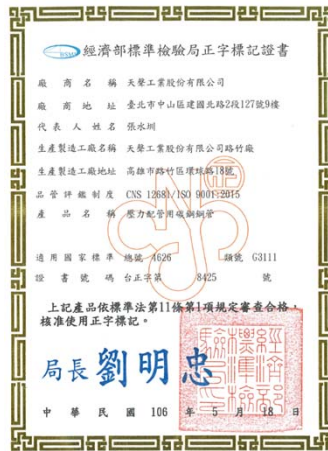
品質管理
Quality Assurance



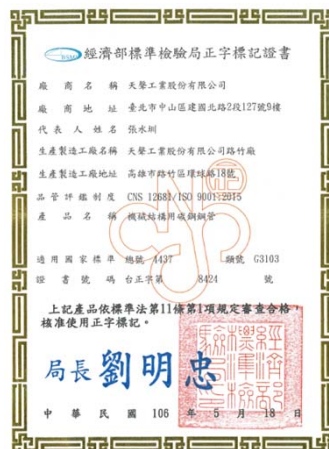
CNS 2606



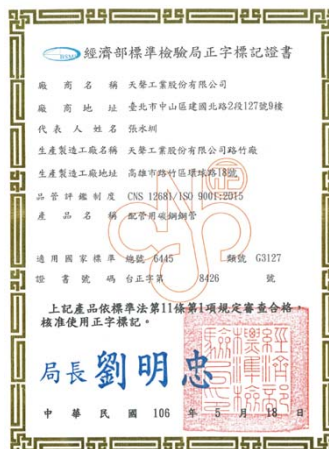
CNS 4435



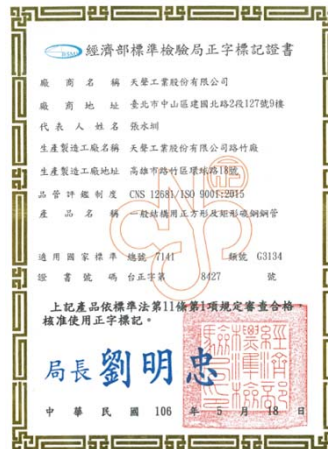
CNS 4626



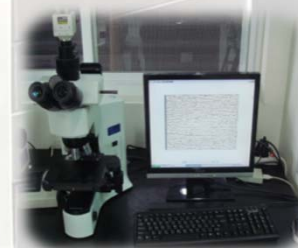
CNS 4437



CNS 6445



CNS 7141



金屬顯微鏡
Metallographic
Microscope



光譜分析儀
Optical Emission
Spectrometer



三次元量測儀
Coordinate-measuring
Machine



硬度機
Rockwell Hardness
Machine



精密砥石切斷機
Precision Cutting
Machine



萬能試驗機
Universal Material
Tester



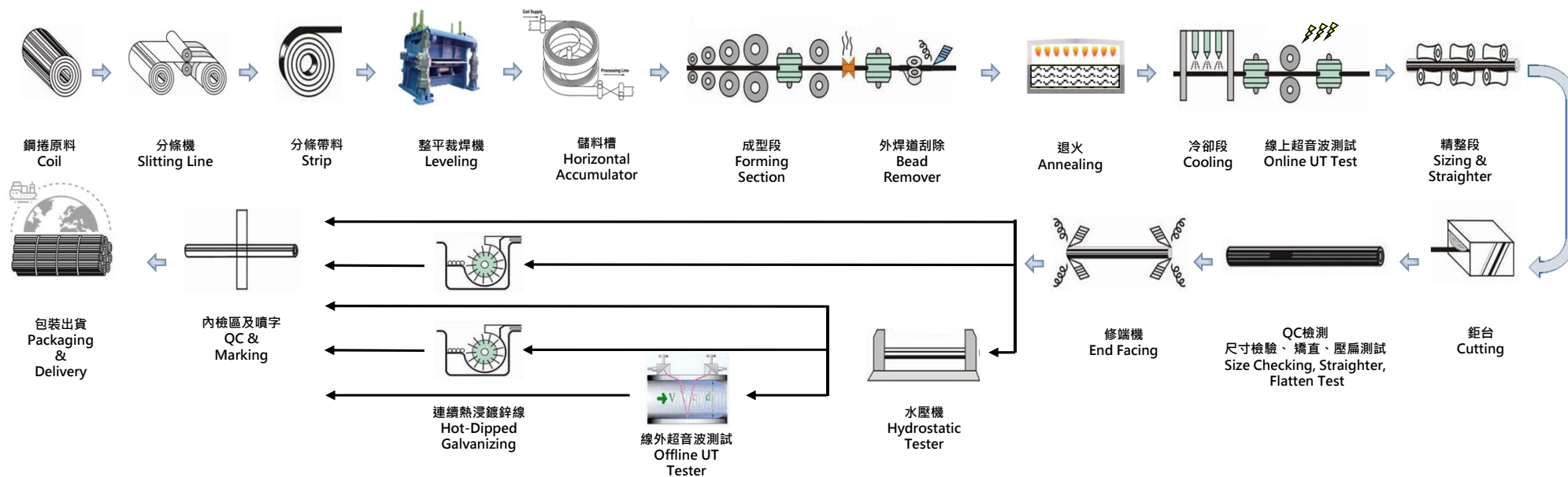
研削研磨機
Grinding & Polishing
Machine

藉由原料驗收、製造過程中的各式檢驗以及裝運前的最終檢查來全面管控並確保品質。

Quality assurance consists of raw material inspection, various examinations during manufacturing process and final inspection before delivery.



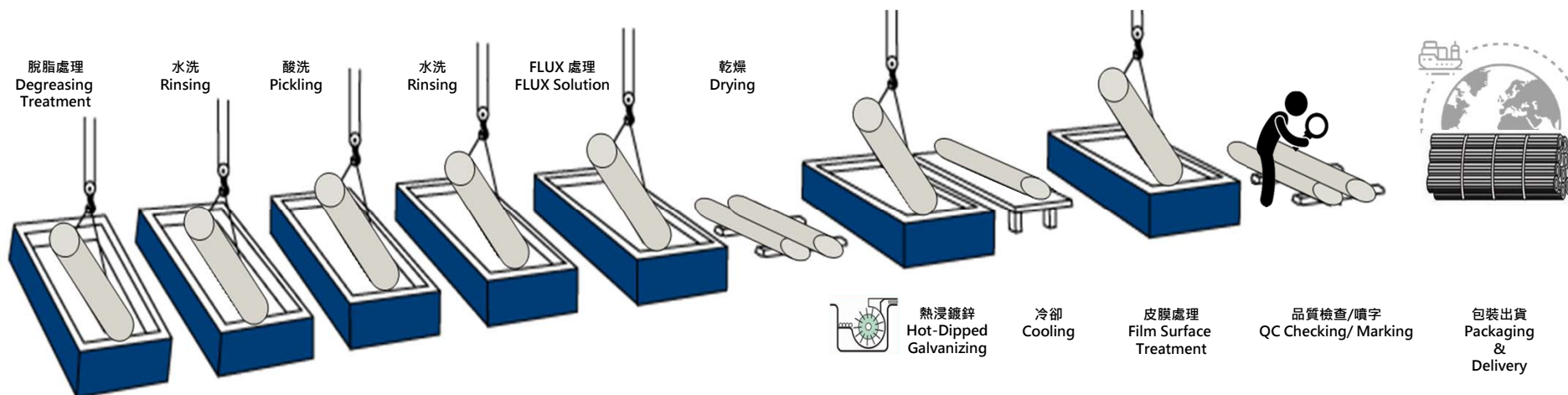
生產流程 Manufacturing Flow Process



熱浸鍍鋅製程

HOT-DIPPED GALVANIZED PROCESS

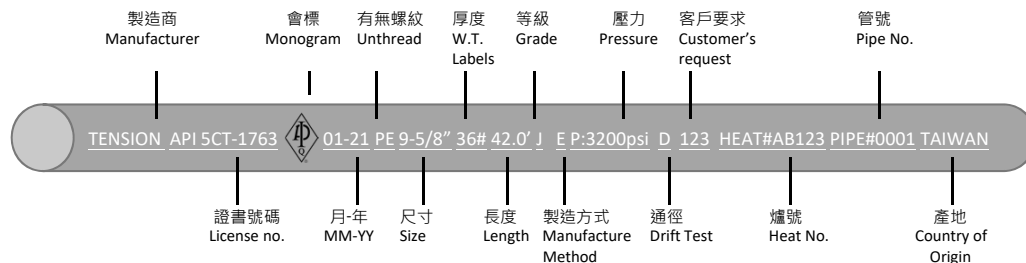
* 實際的生產流程根據產品規範及客戶要求有所變動。
The actual manufacturing process might differ according to product specifications and customer's special requests.
* 退火及線上超音波測試依規範及需求進行實施。
Annealing and online UT test are conducted according to the required specifications and requirements.



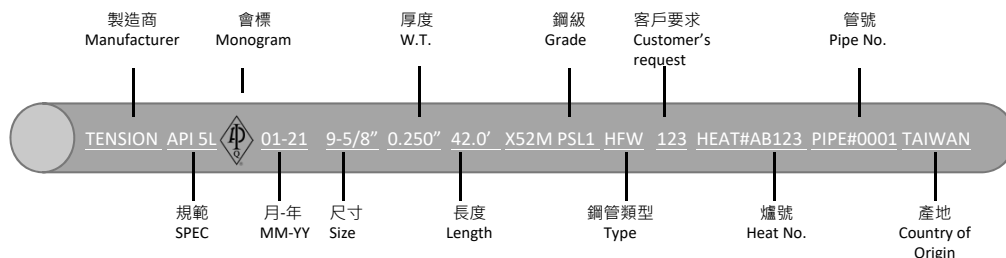


標示及包裝方式 Marking and Packaging

API 5CT

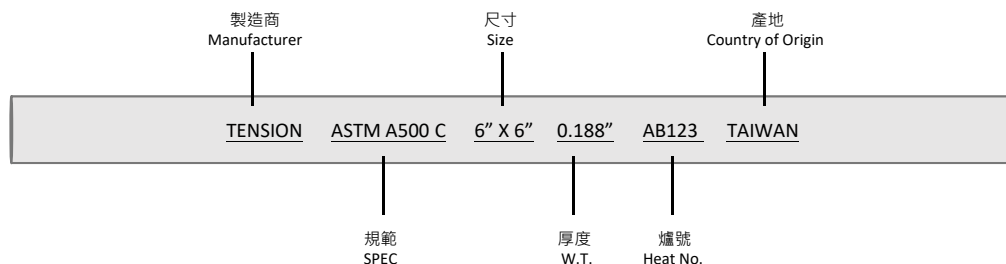


API 5L



*API石油用管標記方式根據最新規範所規定。
API pipe marked according to the latest specification.

STEEL PIPE



標準包裝 Standard Packaging

包裝外觀 Appearance of Packaging

六角形 / 圓形 Hexagonal / Round Form



外徑 19.10mm ~ 254.00mm
O.D. 3/4 inch ~ 12 inch

長度 ≤ 7M : 至少4條打包帶
長度 ≤ 13M : 至少6條打包帶

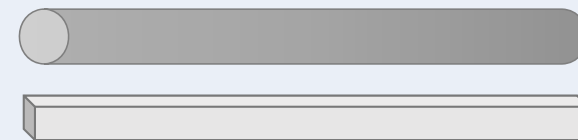
Length ≤ 7M : min. 4 Steel Straps
Length ≤ 13M : min. 6 Steel Straps

鋼帶
Steel Strap

Ex.



散把裸裝 Bare in Loose

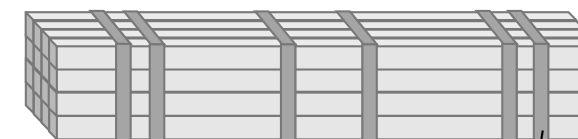


外徑 > 254.00mm
O.D. > 10 inch

長度 > 13M

Length > 13M

方形/矩形 Square / Rectangular Form



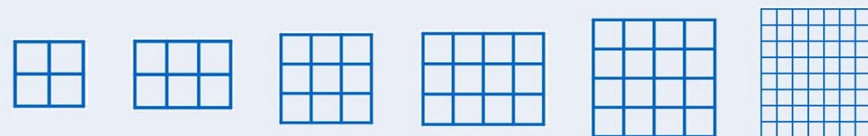
外徑 19.00mm ~ 254.00mm
O.D. 3/4 inch ~ 10 inch

長度 ≤ 7M : 至少4條打包帶
長度 ≤ 13M : 至少6條打包帶

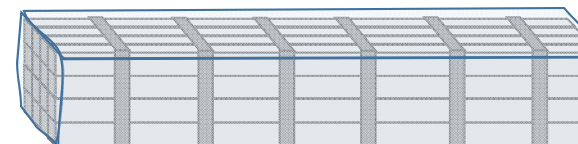
Length ≤ 7M : min. 4 Steel Straps
Length ≤ 13M : min. 6 Steel Straps

鋼帶
Steel Strap

Ex.



外包裝 Wrapping





可生產規格及產品用途

Pipe Specification



種類 Type	規範 Specification	名稱 Description	用途 Application
石油用管 PIPE FOR O&G INDUSTRY	API 5CT	石油用 (油井套管和抽油管) 焊接 碳鋼鋼管 ERW Carbon Steel Pipe for OCTG, Casing & Tubing	廣泛用於石油和天然氣勘探、開發和生產 Widely used in oil and natural gas exploration, development and production
	API 5L	流氣體輸送用焊接碳鋼鋼管 ERW Carbon Steel Pipe for Line Pipe	可輸送天然氣、水、石油 Natural gas, water and oil transportation
標準管 STANDARD PIPE	ASTM A53/ A53M	配管/結構用碳鋼鋼管 Carbon Steel Pipes for Ordinary Piping and Structure	一般用於輸送蒸汽、水、天然氣和空氣之管 線，另外也可用於結構和壓力用途 Steam, water, gas, air transportation and also can be used in structures and pressure applications
	ASTM A252/ A252M	有縫及無縫打樁管 Welded and Seamless Steel Pipe Piles	適用於承載構件的管樁，或用來形成混凝土 樁的基礎 Pipe piles with steel cylinder as a permanent load-carrying member, or as a shell, to form cast-in-place concrete piles
	ASTM A513/ A513M	電阻焊碳鋼及合金機械用管 Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing	機械用管 Mechanical tubing
	ASTM A1085/ A1085M	冷成型焊接碳鋼中空管 (HSS) Cold-Formed Welded Carbon Steel Hollow Structural Sections (HSS)	可應用於焊接或螺栓結構，且不侷限應用在 建築物、橋梁、塔樓、起重機、標誌支撐 桿、離岸生產和鑽井平臺、傾翻防護結構 (ROPS)、落物保護裝置(FOPS)和遊樂設施等 Mainly used for welded or bolted construction and also utilized in but not limited to the following applications: buildings, bridges, towers, cranes, sign supports and poles, off-shore production and drilling platforms, roll-over protective structures (ROPS), falling object protective structures (FOPS), and amusement rides
	AS 1074	碳鋼鋼管 Carbon Steel Tubes and Tubulars	一般用途 Used in ordinary service
電線用管 CONDUIT	CNS 2606	鋼製電線管 Rigid Steel Conduits	在電力配線中為保護電線而使用的電線管 Protection of electric wires in power distribution
	JIS C 8305		
	ANSI C80.1	電線用鋼管 Electric Rigid Steel Conduits	作為電氣系統中保護電線或電纜所用鋼管 Raceway for wires or cables of an electrical system
	UL 6	電線用鋼管 Electrical Rigid Steel Conduits	作為安裝電線和電纜的金屬管道 Metal raceway for installation of wires and cables

種類 Type	規範 Specification	名稱 Description	用途 Application
壓力配管 PRESSURE USE	BSA / BSB	低壓有縫鋼管 Weld Steel Pipes For Low Pressure Use	應用於低壓環境輸送蒸汽、水、氣體、及液 體等管線配管 Steam, water, gas, air, and liquid transportation in low pressure environments
	JIS 3452	配管用碳鋼鋼管 Carbon Steel Pipes for Ordinary Piping	在低壓下輸送蒸汽、水 (公共供水服務設施 除外)、油、天然氣體、空氣等配管 Steam, water (except public water supply service), oil, gas, air transportation in low pressure environments
	CNS 6445 G3127		
	JIS 3454	壓力配管用碳鋼鋼管 Carbon Steel Pipes for Pressure Service	在溫度350°C以下使用的壓力配管 Transportation at temperatures under 350°C
	CNS 4626 G3111		
	BS 1387	配管用碳鋼鋼管 Carbon Steel Pipes for Ordinary Piping	在低壓下輸送蒸汽、水、天然氣體、空氣等 配管 Steam, water, gas, air transportation in low pressure environments
	BS EN 10255		
結構用管 STRUCTURE PIPE	JIS 3444	一般結構用碳鋼鋼管 Carbon Steel Pipes for General Structure	可應用於鋼塔、鷹架、基樁、支柱、防滑坡 鋼樁等土木、建築的結構物 Providing to civil engineering and structure usage, e.g. steel towers, scaffoldings, footing piles, foundation piles, piles for landslide suppression
	CNS 4435 G3102		
	JIS 3445	機械構造用碳鋼鋼管 Carbon Steel Tubes for Machine Structure	應用於機械、汽車、自行車、傢俱、家用電 器和其它機械零件等 Machinery, automobiles, bicycles, furniture, appliances and other machine parts
	CNS 4437 G3103		
	JIS 3466	一般結構用矩形碳鋼鋼管 Carbon Steel Square and Rectangular Pipe for General Structure	土木工程、建築及其他結構用途 Civil engineering, construction, structure use
	CNS 7141 G3134		
	ASTM A500/A500M	一般結構用碳鋼鋼管 Carbon Steel Pipes for General Structure	應用於橋梁和建築物以及一般結構用途 Construction, e.g. bridges
	CSA G40.20/G40.21		
	AS/NZS 1163	冷彎結構鋼空心型材 Cold-formed structural steel hollow sections	一般結構和工程應用 General structural and engineering applications

*規格表外的產品也歡迎向我們公司人員諮詢。

If required specification is absent from the table, please contact us for further assistance.



可承製尺寸範圍

Size Range

圓管 ROUND

外徑 O.D.		厚度範圍																	
mm	inches	W.T. Range	0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	14.0	19.0			
19.1	(0.750")	0.6~1.7mm																	
21.3		1.2~2.6mm																	
22.2	(0.875")	0.7~2.0mm																	
25.4	(1.000")	1.0~2.6mm																	
26.8		1.2~2.8mm																	
28.6	(1.125")	1.0~2.8mm																	
31.8	(1.250")	1.0~3.2mm																	
34.0	(1.315")	1.2~4.0mm																	
35.0	(1.375")	1.2~3.0mm																	
38.1	(1.500")	1.0~3.2mm																	
42.1	(1.660")	1.4~4.0mm																	
44.5	(1.750")	1.4~4.0mm																	
48.3	(1.900")	1.4~4.8mm																	
50.8	(2.000")	1.2~3.2mm																	
57.0	(2.250")	1.4~3.0mm																	
60.5	(2.375")	1.4~6.0mm																	
63.5	(2.500")	1.4~4.8mm																	
73.0	(2.875")	1.4~6.4mm																	
76.3	(3.000")	1.4~5.0mm																	
88.9	(3.500")	2.0~6.0mm																	
101.6	(4.000")	2.0~6.0mm																	
114.1	(4.500")	2.0~7.0mm																	
127.0	(5.000")	2.5~6.4mm																	
139.8	(5.500")	2.5~8.0mm																	
165.1	(6.500")	2.8~8.0mm																	
168.3	(6.625")	2.8~9.0mm																	
177.8	(7.000")	4.0~12.7mm																	
216.3	(8.500")	4.0~10.0mm																	
219.1	(8.625")	4.0~14.3mm																	
244.5	(9.625")	4.0~14.3mm																	
273.0	(10.750")	4.0~14.3mm																	
323.9	(12.750")	5.0~19.0mm																	
339.7	(13.375")	5.0~19.0mm																	
355.6	(14.000")	5.0~19.0mm																	
406.4	(16.000")	6.0~19.0mm																	
457.2	(18.000")	6.0~19.0mm																	
473.1	(18.625")	6.0~19.0mm																	
508.0	(20.000")	6.0~19.0mm																	



尺寸範圍
Size Range

鋼管可用於家具、運動器材、建築、農業、運輸等產業
Steel pipes and tubes can be used in furniture, sports equipment, construction, agriculture, transportation and other industries.

方管 SQUARE

外徑 O.D.		厚度範圍																	
mm	inches	W.T. Range	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	14.0	19.0				
19.0 x 19.0	(0.750" x 0.750")	1.0~1.7mm																	
21.3 x 21.3	(0.875" x 0.875")	1.0~1.7mm																	
25.0 x 25.0	(1.000" x 1.000")	1.0~3.2mm																	
30.0 x 30.0	(1.250" x 1.250")	1.0~3.2mm																	
38.0 x 38.0	(1.500" x 1.500")	1.0~3.2mm																	
40.0 x 40.0	(1.625" x 1.625")	1.2~3.2mm																	
45.0 x 45.0	(1.750" x 1.750")	1.2~3.2mm																	
50.0 x 50.0	(2.000" x 2.000")	1.2~4.8mm																	
60.0 x 60.0	(2.375" x 2.375")	1.2~4.0mm																	
70.0 x 70.0	(2.750" x 2.750")	2.0~6.0mm																	
75.0 x 75.0	(3.000" x 3.000")	2.0~6.4mm																	
80.0 x 80.0	(3.125" x 3.125")	2.0~6.4mm																	
90.0 x 90.0	(3.625" x 3.625")	2.0~6.4mm																	
100.0 x 100.0	(4.000" x 4.000")	2.0~6.4mm																	
125.0 x 125.0	(5.000" x 5.000")	3.0~6.4mm																	
150.0 x 150.0	(6.000" x 6.000")	4.0~12.7mm																	
175.0 x 175.0	(7.000" x 7.000")	5.0~12.7mm																	
200.0 x 200.0	(8.000" x 8.000")	5.0~14.3mm																	
225.0 x 225.0	(9.000" x 9.000")	7.0~14.3mm																	
250.0 x 250.0	(10.000" x 10.000")	7.0~14.3mm																	
300.0 x 300.0	(12.000" x 12.000")	8.0~19.0mm																	
350.0 x 350.0	(14.000" x 14.000")	9.0~19.0mm																	
400.0 x 400.0	(16.000" x 16.000")	10.0~19.0mm																	

* 可供應長度最長至18m。

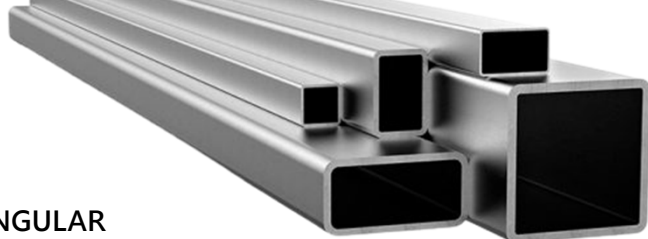
Length limit is 18m.

* 實際生產尺寸會因規範不同而調整。

The producing size can be adjusted to meet various specifications.

* 尺寸範圍表外的產品也歡迎向我們公司人員進行詢問。

If required size is absent from the table, please contact us for further assistance.



方扁管 RECTANGULAR

外徑 O.D.		厚度範圍																
mm	inches	W.T. Range	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	14.0	15.0	16.0	18.0	19.0
12.7 x 31.8	(0.500" x 1.250")	1.2~1.5mm																
12.7 x 38.1	(0.500" x 1.500")	1.2~1.5mm																
13.0 x 26.0	(0.500" x 1.000")	1.0~1.5mm																
15.0 x 30.0	(0.625" x 1.250")	1.0~1.5mm																
16.8 x 42.3		1.2~1.5mm																
20.0 x 40.0		1.0~2.0mm																
20.0 x 50.0		1.4~2.0mm																
23.0 x 53.0		1.4~2.3mm																
25.0 x 50.0	(1.000" x 2.000")	1.2~3.0mm																
25.0 x 75.0	(1.000" x 3.000")	1.4~3.0mm																
30.0 x 60.0		1.2~3.0mm																
38.1 x 50.8	(1.500" x 2.000")	1.2~4.8mm																
38.1 x 76.2	(1.500" x 3.000")	1.6~4.8mm																
40.0 x 50.0	(1.625" x 2.000")	1.2~3.0mm																
40.0 x 60.0	(1.625" x 2.375")	1.2~3.0mm																
40.0 x 80.0		1.4~3.0mm																
50.0 x 75.0	(2.000" x 3.000")	1.6~4.8mm																
50.0 x 100.0	(2.000" x 4.000")	1.6~6.4mm																
75.0 x 125.0	(3.000" x 5.000")	2.0~6.4mm																
75.0 x 150.0	(3.000" x 6.000")	2.5~6.4mm																
100.0 x 150.0	(4.000" x 6.000")	3.0~6.4mm																
100.0 x 200.0	(4.000" x 8.000")	4.0~12.7mm																
100.0 x 250.0	(4.000" x 10.000")	5.0~12.7mm																
100.0 x 300.0	(4.000" x 12.000")	6.0~12.7mm																
125.0 x 175.0	(5.000" x 7.000")	4.0~12.7mm																
150.0 x 200.0	(6.000" x 8.000")	5.0~12.7mm																
150.0 x 250.0	(6.000" x 10.000")	5.0~14.3mm																
150.0 x 300.0	(6.000" x 12.000")	6.0~14.3mm																
150.0 x 350.0	(6.000" x 14.000")	7.0~19.0mm																
200.0 x 250.0	(8.000" x 10.000")	6.0~14.3mm																
200.0 x 300.0	(8.000" x 12.000")	7.0~19.0mm																
200.0 x 400.0	(8.000" x 16.000")	8.0~19.0mm																
250.0 x 350.0	(10.000" x 14.000")	8.0~19.0mm																
300.0 x 400.0	(12.000" x 16.000")	9.0~19.0mm																
300.0 x 500.0	(12.000" x 20.000")	9.0~19.0mm																
350.0 x 450.0	(14.000" x 18.000")	9.0~19.0mm																

API 5L ERW Line Pipe

流氣體輸送用焊接碳鋼鋼管

NPS 英制代號	O.D. 外徑 inch	O.D. 外徑 mm	W.T. 厚度 inch	W.T. 厚度 mm	PE Weight 英制單重 lb/ft	PE Weight 公制單重 kg/m	Identification* 尺寸識別*	Sch. No. 管厚號	DN 公制代號
2	2.375	60.3	0.125	3.18	3.01	4.48	...	30	50
			0.141	3.58	3.37	5.01	...	...	
			0.154	3.91	3.66	5.44	STD	40	
			0.172	4.27	4.05	5.90	...	...	
			0.188	4.78	4.40	6.54	...	...	
2 1/2	2.875	73.0	0.141	3.58	4.12	6.13	...	...	65
			0.156	3.96	4.53	6.74	...	...	
			0.172	4.37	4.97	7.40	...	...	
			0.188	4.78	5.40	8.04	...	30	
			0.203	5.16	5.80	8.63	STD	40	
			0.216	5.49	6.14	9.14	...	...	
			0.250	6.35	7.02	10.44	...	...	
3	3.500	88.9	0.141	3.58	5.06	7.53	...	...	80
			0.156	3.96	5.58	8.30	...	...	
			0.172	4.37	6.12	9.11	...	...	
			0.188	4.78	6.66	9.92	...	30	
			0.216	5.49	7.58	11.29	STD	40	
			0.250	6.35	8.69	12.93	...	...	
4	4.500	114.3	0.083	2.11	3.92	5.84	...	5	100
			0.109	2.77	5.12	7.62	...	...	
			0.120	3.05	5.62	8.37	...	10	
			0.125	3.18	5.85	8.71	...	...	
			0.141	3.58	6.57	9.78	...	...	
			0.156	3.96	7.24	10.78	...	...	
			0.172	4.37	7.96	11.85	...	...	
			0.188	4.78	8.67	12.91	...	30	
			0.203	5.16	9.32	13.89	...	...	
			0.219	5.56	10.02	14.91	...	...	
			0.237	6.02	10.80	16.08	STD	40	
5	5.563	141.3	0.250	6.35	11.36	16.90	...	...	125
			0.156	3.96	9.02	13.41	...	...	
			0.188	4.78	10.80	16.09	...	...	
			0.219	5.56	12.51	18.61	...	...	
			0.281	7.14	15.87	23.62	...	...	
6	6.625	168.3	0.312	7.92	17.51	26.05	...	...	150
			0.125	3.18	8.69	12.95	...	...	
			0.134	3.40	9.30	13.83	...	10	
			0.141	3.58	9.77	14.54	...	...	
			0.156	3.96	10.79	16.05	...	...	
			0.172	4.37	11.87	17.67	...	...	
			0.188	4.78	12.94	19.28	...	...	
			0.203	5.16	13.94	20.76	...	...	
			0.219	5.56	15.00	22.31	...	...	
			0.250	6.35	17.04	25.36	...	...	
			0.280	7.11	18.99	28.26	STD	40	
			0.312	7.92	21.06	31.32	...	...	
			0.344	8.74	23.10	34.39	...	...	

* STD- standard XS- extra-strong XSS- double extra strong

API 5L ERW Line Pipe

流氣體輸送用焊接碳鋼鋼管



NPS 英制代號	O.D. 外徑 inch	O.D. 外徑 mm	W.T. 厚度 inch	W.T. 厚度 mm	PE Weight 英制單重 lb/ft	PE Weight 公制單重 kg/m	Identification* 尺寸識別*	Sch. No. 管厚號	DN 公制代號
8	8.625	219.1	0.188	4.78	16.96	25.26	...	...	200
			0.203	5.16	18.28	27.22	...	...	
			0.219	5.56	19.68	29.28	...	...	
			0.250	6.35	22.38	33.32	...	20	
			0.277	7.04	24.72	36.82	...	30	
			0.312	7.92	27.73	41.25	...	...	
			0.322	8.18	28.58	42.55	STD	40	
			0.344	8.74	30.45	45.34	...	...	
			0.375	9.53	33.07	49.25	...	...	
			0.406	10.31	35.67	53.08	...	60	
			0.438	11.13	38.33	57.08	...	...	
			0.500	12.70	43.43	64.64	XS	80	
			0.562	14.27	48.44	72.08	...	...	
			0.165	4.19	18.67	27.78	...	10	250
10	10.750	273.0	0.188	4.78	21.23	31.62	...	...	
			0.203	5.16	22.89	34.08	...	...	
			0.219	5.56	24.65	36.67	...	...	
			0.250	6.35	28.06	41.76	...	20	
			0.279	7.09	31.23	46.49	...	...	
			0.307	7.80	34.27	51.01	...	30	
			0.344	8.74	38.27	56.96	...	...	
			0.365	9.27	40.52	60.29	STD	40	
			0.438	11.13	48.28	71.87	...	...	
			0.500	12.70	54.79	81.52	XS	60	
			0.562	14.27	61.21	91.05	...	...	
			0.203	5.16	27.23	40.55	...	...	300
12	12.750	323.8	0.219	5.56	29.34	43.63	...	...	
			0.250	6.35	33.41	49.71	...	20	
			0.281	7.14	37.46	55.76	...	...	
			0.312	7.92	41.48	61.69	...	...	
			0.330	8.38	43.81	65.18	...	30	
			0.344	8.74	45.62	67.90	...	...	
			0.375	9.53	49.61	73.86	STD	...	
			0.406	10.31	53.57	79.70	...	40	
			0.438	11.13	57.65	85.82	...	...	
			0.500	12.70	65.48	97.43	XS	...	
			0.562	14.27	73.22	108.92	...	60	
			0.625	15.88	81.01	120.58	...	...	
			0.203	5.16	29.94	44.59	...	...	350
14	14.000	355.6	0.210	5.33	30.96	46.04	...	...	
			0.219	5.56	32.26	47.99	...	...	
			0.250	6.35	36.75	54.69	...	10	
			0.281	7.14	41.21	61.35	...	...	
			0.312	7.92	45.65	67.90	...	20	
			0.344	8.74	50.22	74.76	...	...	

* STD- standard XS- extra-strong XSS- double extra strong

*厚度公差 W.T. Tolerance : $\leq 5\text{mm} \pm 0.5\text{mm}$; $> 5 \sim 15\text{mm} \pm 0.1\text{t}$; $\geq 15\text{mm} \pm 1.5\text{mm}$
 *外徑公差 O.D. Tolerance : $\geq 2" \sim 6" \pm 0.75\%$; $> 6" \sim 20" \pm 0.75\%$ with max. $\pm 3.2\text{mm}$
 *重量公差 Mass Tolerance : $+10\%$ / -3.5%

*尺寸範圍表外的產品也歡迎向我們公司人員諮詢。

If required size is absent from the table, please contact us for further assistance.

NPS 英制代號	O.D. 外徑 inch	O.D. 外徑 mm	W.T. 厚度 inch	W.T. 厚度 mm	PE Weight 英制單重 lb/ft	PE Weight 公制單重 kg/m	Identification* 尺寸識別*	Sch. No. 管厚號	DN 公制代號
14	14.000	355.6	0.375	9.53	54.62	81.33	STD	30	350
			0.406	10.31	59.00	87.79	...	...	
			0.438	11.13	63.50	94.55	...	40	
			0.469	11.91	67.84	100.94	...	...	
			0.500	12.70	72.16	107.39	XS	...	
			0.562	14.27	80.73	120.11	...	...	
			0.594	15.09	85.13	126.71	...	60	
			0.625	15.88	89.36	133.04	...	...	
16	16.000	406.4	0.250	6.35	42.09	62.64	...	10	400
			0.281	7.14	47.22	70.30	...	...	
			0.312	7.92	52.32	77.83	...	20	
			0.344	8.74	57.57	85.71	...	...	
			0.375	9.53	62.64	93.27	STD	30	
			0.406	10.31	67.68	100.70	...	...	
			0.438	11.13	72.86	108.49	...	...	
			0.469	11.91	77.87	115.86	...	...	
			0.500	12.70	82.85	123.30	XS	40	
			0.562	14.27	92.75	137.99	...	...	
			0.625	15.88	102.72	152.93	...	...	
			0.656	16.66	107.60	160.12	...	60	
18	18.000	457.0	0.250	6.35	47.44	70.57	...	10	450
			0.281	7.14	53.23	79.21	...	...	
			0.312	7.92	58.99	87.71	...	20	
			0.344	8.74	64.93	96.61	...	...	
			0.375	9.53	70.65	105.16	STD	...	
			0.406	10.31	76.36	113.57	...	...	
			0.438	11.13	82.23	122.38	...	30	
			0.469	11.91	87.89	130.72	...	...	
			0.500	12.70	93.54	139.15	XS	...	
			0.562	14.27	104.76	155.80	...	40	
			0.625	15.88	116.09	172.74	...	...	
			0.688	17.48	127.32	189.46	...	...	
			0.750	19.05	138.30	205.74	...	60	
			0.250	6.35	52.78	78.55	...	10	500
20	20.000	508.0	0.281	7.14	59.23	88.19	...	...	
			0.312	7.92	65.66	97.67	...	...	
			0.344	8.74	72.28	107.61	...	...	
			0.375	9.53	78.67	117.15	STD	20	
			0.406	10.31	85.04	126.54	...	...	
			0.438	11.13	91.59	136.37	...	...	
			0.469	11.91	97.92	145.70	...	...	
			0.500	12.70	104.23	155.12	XS	30	
			0.562	14.27	116.78	173.74	...	...	
			0.594	15.09	123.23	183.42	...	40	
			0.625	15.88	129.45	192.72	...	...	
			0.688	17.48	142.03	211.44	...	...	
			0.750	19.05	154.34	229.70	...	...	

* STD- standard XS- extra-strong XSS- double extra strong

API 5CT ERW Tubing

石油用 (油井用油管) 焊接碳鋼鋼管

外徑		厚度			單位重量	
O.D.		W.T.			Plain End Weight	
inch	mm	labels	inch	mm	lb/ft	kg/m
2-3/8	60.32	4.00	0.167	4.24	3.94	5.86
		4.60	0.190	4.83	4.44	6.61
		5.80	0.254	6.45	5.76	8.57
2-7/8	73.02	6.40	0.217	5.51	6.17	9.17
		7.80	0.276	7.01	7.67	11.41
		8.60	0.308	7.82	8.45	12.57
3-1/2	88.90	7.70	0.216	5.49	7.58	11.29
		9.20	0.254	6.45	8.81	13.12
		10.20	0.289	7.34	9.92	14.76
4-1/2	114.30	12.60	0.271	6.88	12.25	18.23
		15.20	0.337	8.56	15.00	22.32

*尺寸範圍表外的產品也歡迎向我們公司人員諮詢。
If required size is absent from the table, please feel free to contact us for further assistance.



API 5CT ERW Casing

石油用 (油井用套管) 焊接碳鋼鋼管

外徑		厚度			單位重量		外徑		厚度			單位重量	
O.D.		W.T.			PE Weight		O.D.		W.T.			PE Weight	
inch	mm	labels	inch	mm	lb/ft	kg/m	inch	mm	labels	inch	mm	lb/ft	kg/m
4-1/2	114.30	9.50	0.205	5.21	9.41	14.02	9-5/8	244.48	32.30	0.312	7.92	31.06	46.20
		10.50	0.224	5.69	10.24	15.24			36.00	0.352	8.94	34.89	51.93
		11.60	0.250	6.35	11.36	16.91			40.00	0.395	10.03	38.97	57.99
		13.50	0.290	7.37	13.05	19.44			43.50	0.435	11.05	42.73	63.61
		15.10	0.337	8.56	15.00	22.32			47.00	0.472	11.99	46.18	68.75
5-1/2	139.70	14.00	0.244	6.20	13.71	20.41	10-3/4	273.05	53.50	0.545	13.84	52.90	78.72
		15.50	0.275	6.98	15.36	22.85			58.40	0.595	15.11	57.44	85.47
		17.00	0.304	7.72	16.89	25.13			32.75	0.279	7.09	31.23	46.50
		20.00	0.361	9.17	19.83	29.52			40.50	0.350	8.89	38.91	57.91
6-5/8	168.28	20.00	0.288	7.32	19.51	29.06	13-3/8	339.72	45.50	0.400	10.16	44.26	65.87
		24.00	0.352	8.94	23.60	35.13			51.00	0.450	11.43	49.55	73.75
		28.00	0.417	10.59	27.67	41.18			55.50	0.495	12.57	54.26	80.75
7	177.80	17.00	0.231	5.87	16.72	24.89	16	406.40	60.70	0.545	13.84	59.45	88.47
		20.00	0.272	6.91	19.56	29.12			48.00	0.330	8.38	46.02	68.48
		23.00	0.317	8.05	22.65	33.70			54.50	0.380	9.65	52.79	78.55
		26.00	0.362	9.19	25.69	38.21			61.00	0.430	10.92	59.50	88.55
		29.00	0.408	10.36	28.75	42.78			68.00	0.480	12.19	66.17	98.46
		32.00	0.453	11.51	31.70	47.20			72.00	0.514	13.06	70.67	105.21
		35.00	0.498	12.65	34.61	51.52			65.00	0.375	9.53	62.64	93.27
8-5/8	219.08	24.00	0.264	6.71	23.60	35.14	18-5/8	473.08	75.00	0.438	11.13	72.86	108.49
		28.00	0.304	7.72	27.04	40.24			84.00	0.495	12.57	82.05	122.09
		32.00	0.352	8.94	31.13	46.33			109.00	0.656	16.66	107.60	160.13
		36.00	0.400	10.16	35.17	52.35			87.50	0.435	11.05	84.59	125.91
		40.00	0.450	11.43	39.33	58.53			94.00	0.438	11.13	91.59	136.37
		44.00	0.500	12.70	43.43	64.64			106.50	0.500	12.70	104.23	155.13
		49.00	0.557	14.15	48.04	71.51			133.00	0.635	16.13	131.45	195.66

*尺寸範圍表外的產品也歡迎向我們公司人員諮詢。
If required size is absent from the table, please contact us for further assistance.

BSA & BSB

Welded Steel Pipes for Low Pressure Use

(Hot-Rolled Steel & Hot-Dipped Galvanized Steel Pipe)

BSA 黑鋼管及熱浸鍍鋅鋼管 (台灣區鋼鐵工業公會鋼管小組規範)

標稱尺寸	外徑 O.D.			厚度 W.T.
Nominal Size	最大值 Max.	標準值 Standard	最小值 Min.	
inch	mm	mm	mm	mm
1/2	21.40	21.20	21.00	1.90
3/4	26.90	26.60	26.40	2.10
1	33.80	33.50	33.20	2.45
1 1/4	42.50	42.20	41.90	2.45
1 1/2	48.40	48.10	47.80	2.60
2	60.20	59.90	59.60	2.60
2 1/2	76.00	75.60	75.20	3.00
3	88.70	88.30	87.90	3.00
3 1/2	101.20	100.70	100.30	3.25
4	113.90	113.40	113.00	3.25
5	140.10	139.50	138.90	3.60
6	165.50	164.90	164.40	3.60
8	217.00	216.10	215.30	4.50

BSB 黑鋼管及熱浸鍍鋅鋼管 (台灣區鋼鐵工業公會鋼管小組規範)

標稱尺寸	外徑 O.D.			厚度 W.T.
Nominal Size	最大值 Max.	標準值 Standard	最小值 Min.	
inch	mm	mm	mm	mm
1/2	21.70	21.40	21.10	2.60
3/4	27.20	26.90	26.60	2.90
1	34.20	33.80	33.40	3.25
1 1/4	42.90	42.50	42.10	3.60
1 1/2	48.80	48.40	48.00	4.10
2	60.80	60.30	59.80	4.10
2 1/2	76.60	76.00	75.40	4.50
3	89.50	88.80	88.10	4.50
3 1/2	102.10	101.20	100.40	4.50
4	114.90	114.10	113.30	4.50
5	140.60	139.60	138.70	4.50
6	166.10	165.10	164.10	4.50
8	218.50	216.30	214.10	6.00

*厚度公差 W.T. Tolerance : +10% / -8%

*水壓試驗 Hydro Test : 鋼管經50kg/cm²之水壓試驗，無洩漏或其他缺陷
Hydrostatic test pressures 50kg/cm² without leakage or other defects

JIS G 3452 / CNS 6445 G3127

Carbon Steel Pipes for Ordinary Piping

配管用碳鋼鋼管

可供應熱浸鍍鋅鋼管
Hot-dipped galvanized is available

標稱尺寸		外徑 O.D.			厚度 W.T.
Nominal Size		最大值 Max.	標準值 Standard	最小值 Min.	
A	B	mm	mm	mm	mm
15	1/2	22.2	21.7	21.2	2.8
20	3/4	27.7	27.2	26.7	2.8
25	1	34.5	34.0	33.5	3.2
32	1 1/4	43.2	42.7	42.2	3.5
40	1 1/2	49.1	48.6	48.1	3.5
50	2	61.1	60.5	59.9	3.8
65	2 1/2	77.1	76.3	75.5	4.2
80	3	90.0	89.1	88.2	4.2
100	4	115.4	114.3	113.2	4.5
125	5	141.2	139.8	138.4	4.5
150	6	166.8	165.2	163.6	5.0
200	8	218.0	216.3	214.6	5.8
350	14	358.4	355.6	352.8	7.9
400	16	409.7	406.4	403.1	7.9
450	18	460.9	457.2	453.5	7.9
500	20	512.1	508.0	503.9	7.9

*厚度公差 W.T. Tolerance : +未規定 Unspecified / -12.5%

*水壓試驗 Hydro Test : 25kg/cm²

JIS G 3454 / CNS 4626 G3111

Carbon Steel Pipes for Pressure Service

壓力配管用碳鋼鋼管

可供應熱浸鍍鋅鋼管
Hot-dipped galvanized is available
原料等級 STPG 370 / 410 皆可供應
Material available for Grade STPG 370 / 410

標稱尺寸		外徑	標準厚度 Standard Wall Thickness					
Nominal Size		O.D.	Sch10	Sch20	Sch30	Sch40	Sch60	Sch80
A	B	mm	mm	mm	mm	mm	mm	mm
15	1/2	21.7	-	-	-	2.8	3.2	3.7
20	3/4	27.2	-	-	-	2.9	3.4	3.9
25	1	34.0	-	-	-	3.4	3.9	4.5
32	1 1/4	42.7	-	-	-	3.6	4.5	4.9
40	1 1/2	48.6	-	-	-	3.7	4.5	5.1
50	2	60.5	-	3.2	-	3.9	4.9	5.5
65	2 1/2	76.3	-	4.5	-	5.2	6.0	7.0
80	3	89.1	-	4.5	-	5.5	6.6	7.6
100	4	114.3	-	4.9	-	6.0	7.1	8.6
125	5	139.8	-	5.1	-	6.6	8.1	9.5
150	6	165.2	-	5.5	-	7.1	9.3	11.0
200	8	216.3	-	6.4	7.0	8.2	10.3	12.7
350	14	355.6	6.4	7.9	9.5	11.1	15.1	19.0
400	16	406.4	6.4	7.9	9.5	12.7	16.7	21.4
450	18	457.2	6.4	7.9	11.1	14.3	19.0	23.8
500	20	508.0	6.4	9.5	12.7	15.1	20.6	26.2

*外徑公差 O.D. Tolerance : ≤25A ±0.3mm ; ≥32A ±0.8%

*厚度公差 W.T. Tolerance : <3mm ±0.3mm ; ≥3mm ±10%

BS 1387 - Screwed and Socketed Steel Tubes and Tubulars and for Plain End Steel Tubes Suitable for Welding or Screwing to BS 21 Pipe Threads

焊接平口、絞牙鋼管

標稱尺寸		等級 Grade		外徑 O.D.		厚度 W.T.	黑管單位重量 Mass	
Nominal Size				最大值 Max.	最小值 Min.		平頭 Plain End	牙頭 Screwed
mm	inch							
15	1/2	輕	Light	21.4	21.0	2.00	0.947	0.956
		中	Medium	21.7	21.1	2.60	1.210	1.220
		重	Heavy	21.7	21.1	3.20	1.440	1.450
20	3/4	輕	Light	26.9	26.4	2.30	1.380	1.390
		中	Medium	27.2	26.6	2.60	1.560	1.570
		重	Heavy	27.2	26.6	3.20	1.870	1.880
25	1	輕	Light	33.8	33.2	2.60	1.980	2.000
		中	Medium	34.2	33.4	3.20	2.410	2.430
		重	Heavy	34.2	33.4	4.00	2.940	2.960
32	1 1/4	輕	Light	42.5	41.9	2.60	2.540	2.570
		中	Medium	42.9	42.1	3.20	3.100	3.130
		重	Heavy	42.9	42.1	4.00	3.800	3.830
40	1 1/2	輕	Light	48.4	47.8	2.90	3.230	3.270
		中	Medium	48.8	48.0	3.20	3.570	3.610
		重	Heavy	48.8	48.0	4.00	4.380	4.420
50	2	輕	Light	60.2	59.6	2.90	4.080	4.150
		中	Medium	60.8	59.8	3.60	5.030	5.100
		重	Heavy	60.8	59.8	4.50	6.190	6.260
65	2 1/2	輕	Light	76.0	75.2	3.20	5.710	5.830
		中	Medium	76.6	75.4	3.60	6.430	6.550
		重	Heavy	76.6	75.4	4.50	7.930	8.050
80	3	輕	Light	88.7	87.9	3.20	6.720	6.890
		中	Medium	89.5	88.1	4.00	8.370	8.540
		重	Heavy	89.5	88.1	5.00	10.300	10.500
100	4	輕	Light	113.9	113.0	3.60	9.750	10.000
		中	Medium	114.9	113.3	4.50	12.200	12.500
		重	Heavy	114.9	113.3	5.40	14.500	14.800
125	5	中	Medium	140.6	138.7	5.00	16.600	17.100
		重	Heavy	140.6	138.7	5.40	17.900	18.400
150	6	中	Medium	166.1	164.1	5.00	19.700	20.300
		重	Heavy	166.1	164.1	5.40	21.300	21.900

*厚度公差 W.T. Tolerance : 輕級 Light Grade -8% ; 中、重級 Medium and Heavy Grade -10%

*重量公差 Weight Tolerance : 規範單位重量 +10% / -8%

*長度公差 Length Tolerance : 標準長度 Mill Length [6.4M] +150mm / -0mm

BS EN 10255 – Non-alloy Steel Tubes Suitable for Welding and Threading

非合金鋼焊接平口、絞牙鋼管

*可供應熱浸鍍鋅鋼管
Hot-dipped galvanized available

標稱尺寸		等級 Grade	外 徑 O.D.		厚度 W.T.	單位重量 Mass	
Nominal Size			最小值 Min.	最大值 Max.		平頭 Plain End	牙頭 Screwed
mm	DN		mm	mm		mm	kg/m
21.3	15	L	21.0	21.7	2.3	1.08	1.09
		M	21.0	21.8	2.6	1.21	1.22
		H	21.0	21.8	3.2	1.44	1.45
26.9	20	L	26.4	27.1	2.3	1.40	1.41
		M	26.5	27.3	2.6	1.56	1.57
		H	26.5	27.3	3.2	1.87	1.88
33.7	25	L	33.2	34.0	2.9	2.20	2.22
		M	33.3	34.2	3.2	2.41	2.43
		H	33.3	34.2	4.0	2.93	2.95
42.4	32	L	41.9	42.7	2.9	2.82	2.85
		M	42.0	42.9	3.2	3.10	3.13
		H	42.0	42.9	4.0	3.79	3.82
48.3	40	L	47.8	48.6	2.9	3.25	3.29
		M	47.9	48.8	3.2	3.56	3.60
		H	47.9	48.8	4.0	4.37	4.41
60.3	50	L	59.6	60.7	3.2	4.51	4.58
		M	59.7	60.8	3.6	5.03	5.10
		H	59.7	60.8	4.5	6.19	6.26
76.1	65	L	75.2	76.0	3.2	5.75	5.87
		M	75.3	76.6	3.6	6.42	6.54
		H	75.3	76.6	4.5	7.93	8.05
88.9	80	L	87.9	88.7	3.2	6.76	6.93
		M	88.0	89.5	4.0	8.36	8.53
		H	88.0	89.5	5.0	10.30	10.50
114.3	100	L	113.0	113.9	3.6	9.83	10.10
		M	113.1	115.0	4.5	12.20	12.50
		H	113.1	115.0	5.4	14.50	14.80
139.7	125	L	138.5	140.8	4.5	15.00	15.50
		M	138.5	140.8	5.0	16.60	17.10
		H	138.5	140.8	5.4	17.90	18.40
165.1	150	L	163.9	166.5	4.5	17.80	18.40
		M	163.9	166.5	5.0	19.80	20.40
		H	163.9	166.5	5.4	21.30	21.90

*厚度公差 W.T. Tolerance : ±10%

*重量公差 Weight Tolerance : ±7.5%

*若有L1&L2的等級要求，請向我們公司人員諮詢。 If L1 and L2 grade is required, please contact us for further assistance.

CNS 2606 C4060 (與JIS C 8305同等)

Rigid Steel Conduit

厚鋼電線管 Thick Rigid Steel Conduit Tubes

可供應熱浸鍍鋅鋼管
Hot-dipped galvanized is available

標稱尺寸 Nominal Size	外徑 O.D.	外徑公差	厚度 W.T.	內徑 I.D.	單位重量 Plain End Weight
		O.D. Tolerance			
	mm	mm	Mm	mm	kg/m
G16	21.0	+/-0.3	2.3	16.4	1.1
G22	26.5	+/-0.3	2.3	21.9	1.4
G28	33.3	+/-0.3	2.5	28.3	1.9
G36	41.9	+/-0.3	2.5	36.9	2.4
G42	47.8	+/-0.3	2.5	42.8	2.8
G54	59.6	+/-0.3	2.8	54.0	3.9
G70	75.2	+/-0.3	2.8	69.6	5.0
G82	87.9	+/-0.3	2.8	82.3	5.9
G92	100.7	+/-0.4	3.5	93.7	8.4
G104	113.4	+/-0.4	3.5	106.4	9.5

*重量公差 Mass Tolerance : +未規定 Unspecified / -7%

*外徑25.4mm (含)以上一律採內焊道刮除 Remove inner weld bead for O.D. size above 1" (incl.)

無螺紋電線用鋼管：俗稱EMT電線管 Threadless Rigid Steel Conduit Tubes

標稱尺寸 Nominal Size	外徑 O.D.	外徑公差	厚度 W.T.	內徑 I.D.	單位重量 Plain End Weight
		O.D. Tolerance			
	mm	mm	mm	mm	kg/m
E19	19.1	+/-0.15	1.2	16.7	0.5
E25	25.4	+/-0.15	1.2	23.0	0.7
E31	31.8	+/-0.15	1.4	29.0	1.1
E39	38.1	+/-0.15	1.4	35.3	1.3
E51	50.8	+/-0.15	1.4	48.0	1.7
E63	63.5	+/-0.15	1.6	60.3	2.4
E75	76.2	+/-0.25	1.8	72.6	3.3

*JIS C 8305 日本工業規格電線用鋼管與本規格近似 Similar with Japanese Industrial Standard JIS C 8305 Rigid steel conduits

*重量公差 Mass Tolerance : +未規定 Unspecified / -7%

薄鋼電線用鋼管 Thin Rigid Steel Conduit Tubes

標稱尺寸 Nominal Size	外徑 O.D.	外徑公差	厚度 W.T.	內徑 I.D.	單位重量 Plain End Weight
		O.D. Tolerance			
	mm	mm	mm	mm	kg/m
C19	19.1	+/-0.2	1.6	15.9	0.7
C25	25.4	+/-0.2	1.6	22.2	0.9
C31	31.8	+/-0.2	1.6	28.6	1.2
C39	38.1	+/-0.2	1.6	34.9	1.4
C51	50.8	+/-0.2	1.6	47.6	1.9
C63	63.5	+/-0.35	2.0	59.5	3.0
C75	76.2	+/-0.35	2.0	72.2	3.7

*重量公差 Mass Tolerance : +未規定 Unspecified / -7%

*焊道公差 Bead Height Tolerance : <1mm

ANSI C80.1

Rigid Steel Conduit Tubes; Zinc Coated

電線用鋼管; 鍍鋅

標稱尺寸 Nominal Size		外徑 O.D.		壁厚 W.T.	
DN	NPS	inch	mm	inch	mm
16.0	1/2	0.8	21.3	0.1	2.6
21.0	3/4	1.1	26.7	0.1	2.7
27.0	1.0	1.3	33.4	0.1	3.2
35.0	1.3	1.7	42.2	0.1	3.4
41.0	1.5	1.9	48.3	0.1	3.5
53.0	2.0	2.4	60.3	0.1	3.7
63.0	2.5	2.9	73.0	0.2	4.9
78.0	3.0	3.5	88.9	0.2	5.2
103.0	4.0	4.5	114.3	0.2	5.7
129.0	5.0	5.6	141.3	0.2	6.2
155.0	6.0	6.6	168.3	0.3	6.8

*厚度公差 W.T. Tolerance : +未規定 Unspecified / -12.5%

*外徑公差 O.D. Tolerance : 1/2"~2" ±0.38mm ; 2-1/2"~4" ±0.64mm ; 5"~6" ±1%

*長度公差 Length Tolerance : ±6.35mm

UL6

Electrical Rigid Metal Conduit-Steel

電線用鋼管

標稱尺寸		外徑 O.D.						厚度 W.T.		10支管附接頭之最小重量 Min. Weight of Ten Unit Lengths with Couplings Attached				直管長度	
Nominal Size		最大值 Max.		標準值 Standard		最小值 Min.				螺紋裸管 Bare Threaded		鍍鋅成品管 Finished Zinc Coated		Length of Straight Conduit	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs	kg	lbs	mm	ft. & inch
16	1/2	21.72	0.855	21.34	0.840	20.96	0.825	2.64	0.104	34.2	75.4	35.8	79.0	3030	9 ~ 11-1/4
21	3/4	27.05	1.065	26.67	1.050	26.29	1.035	2.72	0.107	45.5	100.4	47.6	105.0	3030	9 ~ 11-1/4
27	1	33.78	1.330	33.40	1.315	33.02	1.300	3.20	0.126	66.8	147.2	69.4	153.0	3025	9 ~ 11
35	1 1/4	42.54	1.675	42.16	1.660	41.78	1.645	3.38	0.133	87.8	193.5	91.2	201.0	3025	9 ~ 11
41	1 1/2	48.64	1.915	48.26	1.900	47.88	1.885	3.51	0.138	109.0	240.4	112.9	249.0	3025	9 ~ 11
53	2	60.93	2.399	60.33	2.375	59.73	2.351	3.71	0.146	145.6	321.1	150.6	332.0	3025	9 ~ 11
63	2 1/2	73.76	2.904	73.03	2.875	72.30	2.846	4.90	0.193	233.1	513.9	239.0	527.0	3010	9 ~ 10-1/2
78	3	89.79	3.535	88.90	3.500	88.01	3.465	5.21	0.205	302.4	666.6	309.6	682.0	3010	9 ~ 10-1/2
91	3 1/2	102.62	4.040	101.60	4.000	100.58	3.960	5.46	0.215	368.6	812.6	376.9	831.0	3005	9 ~ 10-1/4
103	4	115.44	4.545	114.30	4.500	113.16	4.455	5.72	0.225	431.6	951.6	441.0	972.3	3005	9 ~ 10-1/4
129	5	142.71	5.619	141.30	5.563	139.89	5.507	6.22	0.245	584.2	1,288.0	595.8	1,313.6	2995	9 ~ 10
155	6	169.96	6.691	168.28	6.625	166.60	6.559	6.76	0.266	777.8	1,714.7	791.7	1,745.3	2995	9 ~ 10

*外徑公差 O.D. Tolerance : 1/2"~1-1/2" ±0.38mm ; 2"~6" ±1%

*長度公差 Length Tolerance : ±6.35mm

*焊道公差 Bead Height Tolerance : 1/2"~2" <0.38mm ; 2-1/2"~6" <0.51mm

ASTM A252

Welded Steel Pipe Piles

有縫打樁管

外徑 O.D.		厚度 W.T.		單位重量 Plain End Weight		外徑 O.D.		厚度 W.T.		單位重量 Plain End Weight	
inch	mm	inch	mm	lb/ft	kg/m	inch	mm	inch	mm	lb/ft	kg/m
8 5/8	219.1	0.172	4.37	15.54	23.14	14	355.6	0.203	5.16	29.94	44.59
		0.188	4.78	16.96	25.26			0.219	5.56	32.26	47.99
		0.203	5.16	18.28	27.22			0.230	5.84	33.86	50.37
		0.219	5.56	19.68	29.28			0.250	6.35	36.75	54.69
		0.250	6.35	22.38	33.32			0.281	7.14	41.21	61.35
		0.277	7.04	24.72	36.82			0.312	7.92	45.65	67.90
		0.312	7.92	27.73	41.25			0.344	8.74	50.22	74.76
		0.322	8.18	28.58	42.55			0.375	9.53	54.62	81.33
		0.344	8.74	30.45	45.34			0.438	11.13	63.50	94.55
		0.375	9.53	33.07	49.25			0.469	11.91	67.84	100.94
10 3/4	273.1	0.438	11.13	38.33	57.08	16	406.4	0.500	12.70	72.16	107.39
		0.500	12.70	43.43	64.64			0.250	6.35	42.09	62.64
		0.164	4.17	18.56	27.66			0.281	7.14	47.22	70.30
		0.172	4.37	19.45	28.96			0.312	7.92	52.32	77.83
		0.179	4.55	20.23	30.13			0.344	8.74	57.57	85.71
		0.188	4.78	21.23	31.63			0.375	9.53	62.64	93.27
		0.203	5.16	22.89	34.09			0.438	11.13	72.86	108.49
		0.219	5.56	24.65	36.68			0.469	11.91	77.87	115.86
		0.230	5.84	25.87	38.49			0.500	12.70	82.85	123.30
		0.250	6.35	28.06	41.77	18	457.2	0.250	6.35	47.44	70.60
12 3/4	323.9	0.279	7.09	31.23	46.51			0.281	7.14	53.23	79.24
		0.307	7.80	34.27	51.03			0.312	7.92	58.99	87.75
		0.344	8.74	38.27	56.98			0.344	8.74	64.93	96.66
		0.365	9.27	40.52	60.31			0.375	9.53	70.65	105.21
		0.438	11.13	48.28	71.90			0.438	11.13	82.23	122.43
		0.500	12.70	54.79	81.55			0.469	11.91	87.89	130.78
		0.203	5.16	27.23	40.56			0.500	12.70	93.54	139.21
		0.219	5.56	29.34	43.65	20	508.0	0.250	6.35	52.78	78.55
		0.230	5.84	30.78	45.81			0.281	7.14	59.23	88.19
		0.250	6.35	33.41	49.73			0.312	7.92	65.66	97.67
		0.281	7.14	37.46	55.77			0.344	8.74	72.28	107.61
		0.312	7.92	41.48	61.71			0.375	9.53	78.67	117.15
		0.330	8.38	43.81	65.20			0.438	11.13	91.59	136.37
		0.344	8.74	45.62	67.93			0.469	11.91	97.92	145.70
		0.375	9.53	49.61	73.88			0.500	12.70	104.23	155.12
		0.438	11.13	57.65	85.85						
		0.500	12.70	65.48	97.46						

*厚度公差 W.T. Tolerance : +未規定 Unspecified / -12.5%

*外徑公差 O.D. Tolerance : ±1%

*重量公差 Mass Tolerance : +15% / -5%

AS 1074

Carbon Steel Tubes and Tubulars

碳鋼鋼管

標稱尺寸 Nominal Size	等級 Grade	外徑 O.D.		厚度 W.T.	單位重量 Mass
		最小值 Min.	最大值 Max.		平頭或牙頭 Plain or Screw End
DN		mm	mm	mm	kg/m
15	L	21.0	21.4	2.00	0.947
	M	21.1	21.7	2.60	1.210
	H	21.1	21.7	3.20	1.440
20	L	26.4	26.9	2.30	1.380
	M	26.6	27.2	2.60	1.560
	H	26.6	27.2	3.20	1.870
25	L	33.2	33.8	2.60	1.980
	M	33.4	34.2	3.20	2.410
	H	33.4	34.2	4.00	2.940
32	L	41.9	42.5	2.60	2.540
	M	42.1	42.9	3.20	3.100
	H	42.1	42.9	4.00	3.800
40	L	47.8	48.4	2.90	3.230
	M	48.0	48.8	3.20	3.570
	H	48.0	48.8	4.00	4.380
50	L	59.6	60.2	2.90	4.080
	M	59.8	60.8	3.60	5.030
	H	59.8	60.8	4.50	6.190
65	L	75.2	76.0	3.20	5.710
	M	75.4	76.6	3.60	6.430
	H	75.4	76.6	4.50	7.930
80	L	87.9	88.7	3.20	6.720
	M	88.1	89.5	4.00	8.370
	H	88.1	89.5	5.00	10.300
100	L	113.0	113.9	3.60	9.750
	M	113.3	114.9	4.50	12.200
	H	113.3	114.9	5.40	14.300
125	L	-	-	-	-
	M	138.7	140.6	5.00	16.600
	H	138.7	140.6	5.40	17.900
150	L	-	-	-	-
	M	164.1	166.0	5.00	19.700
	H	164.1	166.1	5.40	21.300

*厚度公差 W.T. Tolerance : 輕級 L Grade +未規定 Unspecified / -8% ; 中、重級 M and H Grade +未規定 Unspecified / -10%

*重量公差 Mass Tolerance : 單支管 Single Tube +10% / -8%

*長度公差 Length Tolerance : 標準長度 Standard Length [6.5M] ±8mm

ASTM A53

Carbon Steel Pipes for Ordinary Piping and Structure

配管/結構用碳鋼鋼管

標稱尺寸		外徑		厚度		管厚號 Sch. No.	單重 Weight		水壓值 Hydro Test Pressure			
Nominal Size		Outside Diameter		Wall Thickness			Plain End		Grade A		Grade B	
NPS	DN	Inch	mm	Inch	mm		lb/ft	kg/m	psi	kg/cm²	psi	kg/cm²
1/2	15	0.840	21.3	0.109	2.77	40	0.85	1.27	700	49.2	700	49.2
3/4	20	1.050	26.7	0.113	2.87	40	1.13	1.69	700	49.2	700	49.2
1	25	1.315	33.4	0.133	3.38	40	1.68	2.50	700	49.2	700	49.2
				0.179	4.55	80	2.17	3.24	850	59.8	850	59.8
1 1/4	32	1.660	42.2	0.140	3.56	40	2.27	3.39	1200	84.4	1300	91.4
				0.191	4.85	80	3.00	4.47	1800	126.6	1900	133.6
1 1/2	40	1.900	48.3	0.145	3.68	40	2.72	4.05	1200	84.4	1300	91.4
				0.200	5.08	80	3.63	5.41	1800	126.6	1900	133.6
2	50	2.375	60.3	0.154	3.91	40	3.66	5.44	2300	161.7	2500	175.8
				0.218	5.54	80	5.03	7.48	2500	175.8	2500	175.8
2 1/2	65	2.875	73.0	0.203	5.16	40	5.80	8.63	2500	175.8	2500	175.8
				0.276	7.01	80	7.67	11.41	2500	175.8	2500	175.8
3	80	3.500	88.9	0.125	3.18	-	4.51	6.72	1290	90.7	1500	105.5
				0.156	3.96	-	5.58	8.30	1600	112.5	1870	131.5
				0.188	4.78	-	6.66	9.92	1930	135.7	2260	158.9
				0.216	5.49	40	7.58	11.29	2220	156.1	2500	175.8
				0.250	6.35	-	8.69	12.93	2500	175.8	2500	175.8
				0.125	3.18	-	4.51	6.72	1120	78.7	1310	92.1
3 1/2	90	4.000	101.6	0.156	3.96	-	5.58	8.30	1400	98.4	1640	115.3
				0.188	4.78	-	6.66	9.92	1690	118.8	1970	138.5
				0.226	5.74	40	7.91	11.77	2030	142.7	2370	166.6
				0.125	3.18	-	5.85	8.71	1000	70.3	1170	82.3
4	100	4.500	114.3	0.156	3.96	-	7.24	10.78	1250	87.9	1460	102.6
				0.188	4.78	-	8.67	12.91	1500	105.5	1750	123.0
				0.219	5.56	-	10.02	14.91	1750	123.0	2040	143.4
				0.237	6.02	40	10.80	16.08	1900	133.6	2210	155.4
				0.250	6.35	-	11.36	16.90	2000	140.6	2330	163.8
				0.281	7.14	-	12.67	18.87	2250	158.2	2620	184.2
5	125	5.563	141.3	0.156	3.96	-	9.02	13.41	1010	71.0	1180	83.0
				0.188	4.78	-	10.80	16.09	1220	85.8	1420	99.8
				0.219	5.56	-	12.51	18.61	1420	99.8	1650	116.0
				0.258	6.55	40	14.63	21.77	1670	117.4	1950	137.1
				0.281	7.14	-	15.87	23.62	1820	128.0	2120	149.1
				0.312	7.92	-	17.51	26.05	2020	142.0	2360	165.9
6	150	6.625	168.3	0.188	4.78	-	12.94	19.28	1020	71.7	1190	83.7
				0.219	5.56	-	15.00	22.31	1190	83.7	1390	97.7
				0.250	6.35	-	17.04	25.36	1360	95.6	1580	111.1
				0.280	7.11	40	18.99	28.26	1520	106.9	1780	125.1
				0.312	7.92	-	21.06	31.32	1700	119.5	1980	139.2
				0.344	8.74	-	23.10	34.39	1870	131.5	2180	153.3
8	200	8.625	219.1	0.188	4.78	-	16.96	25.26	780	54.8	920	64.7
				0.203	5.16	-	18.28	27.22	850	59.8	1000	70.3
				0.219	5.56	-	19.68	29.28	910	64.0	1070	75.2
				0.250	6.35	20	22.38	33.32	1040	73.1	1220	85.8
				0.277	7.04	30	24.72	36.82	1160	81.6	1350	94.9
				0.312	7.92	-	27.73	41.25	1300	91.4	1520	106.9
				0.322	8.18	40	28.58	42.55	1340	94.2	1570	110.4
				0.344	8.74	-	30.45	45.34	1440	101.2	1680	118.1
				0.375	9.53	-	33.07	49.25	1570	110.4	1830	128.7
				0.406	10.31	60	35.67	53.08	1700	119.5	2000	140.6
				0.438	11.13	-	38.33	57.08	1830	128.7	2130	149.8
				0.500	12.70	80	43.43	64.64	2090	146.9	2430	170.8
10	250	10.750	273.0	0.188	4.78	-	21.23	31.62	630	44.3	730	51.3
				0.203	5.16	-	22.89	34.08	680	47.8	800	56.2
				0.219	5.56	-	24.65	36.67	730	51.3	860	60.5
				0.250	6.35	20	28.06	41.76	840	59.1	980	68.9
				0.279	7.09	-	31.23	46.49	930	65.4	1090	76.6

*厚度公差 W.T. Tolerance : +未規定 Unspecified / -12.5%

*外徑公差 O.D. Tolerance : ≤48.3mm ±0.4mm / ≥60.3mm ±1%

*重量公差 Mass Tolerance : ±10%

*尺寸範圍表外的產品也歡迎向我們公司人員諮詢。

If required size is absent from the table, please contact us for further assistance.

標稱尺寸		外徑		厚度		管厚號 Sch. No	單重 Weight		水壓值 Hydro Test Pressure							
Nominal Size		Outside Diameter		Wall Thickness			Plain End		Grade A		Grade B					
NPS	DN	Inch	mm	Inch	mm		lb/ft	kg/m	psi	kg/cm ²	psi	kg/cm ²				
10	250	10.750	273.00	0.307	7.80	30	34.27	51.01	1030	72.4	1200	84.4				
				0.344	8.74	-	38.27	56.96	1150	80.9	1340	94.2				
				0.365	9.27	40	40.52	60.29	1220	85.8	1430	100.5				
				0.438	11.13	-	48.28	71.87	1470	103.4	1710	120.2				
				0.500	12.70	60	54.79	81.52	1670	117.4	1950	137.1				
12	300	12.750	323.80	0.203	5.16	-	27.23	40.55	570	40.1	670	47.1				
				0.219	5.56	-	29.34	43.63	620	43.6	720	50.6				
				0.250	6.35	20	33.41	49.71	710	49.9	820	57.7				
				0.281	7.14	-	37.46	55.76	790	55.5	930	65.4				
				0.312	7.92	-	41.48	61.69	880	61.9	1030	72.4				
				0.330	8.38	30	43.81	65.18	930	65.4	1090	76.6				
				0.344	8.74	-	45.62	67.90	970	68.2	1130	79.4				
				0.375	9.53	-	49.61	73.86	1060	74.5	1240	87.2				
				0.406	10.31	40	53.57	79.70	1150	80.9	1340	94.2				
				0.438	11.13	-	57.65	85.82	1240	87.2	1440	101.2				
				0.500	12.70	-	65.48	97.43	1410	99.1	1650	116.0				
				0.562	14.27	60	73.22	108.92	1590	111.8	1850	130.1				
				14	350	14.000	355.60	0.210	5.33	-	30.96	46.04	540	38.0	630	44.3
								0.219	5.56	-	32.26	47.99	560	39.4	660	46.4
								0.250	6.35	10	36.75	54.69	640	45.0	750	52.7
0.281	7.14	-	41.21					61.35	720	50.6	840	59.1				
0.312	7.92	20	45.65					67.90	800	56.2	940	66.1				
0.344	8.74	-	50.22					74.76	880	61.9	1030	72.4				
0.375	9.53	30	54.62					81.33	960	67.5	1120	78.7				
0.438	11.13	40	63.50					94.55	1130	79.4	1310	92.1				
0.469	11.91	-	67.84					100.94	1210	85.1	1410	99.1				
0.500	12.70	-	72.16					107.39	1290	90.7	1500	105.5				
0.594	15.09	60	85.13					126.71	1530	107.6	1790	125.8				
16	400	16.000	406.40					0.219	5.56	-	36.95	54.96	490	34.5	570	40.1
								0.250	6.35	10	42.09	62.64	560	39.4	660	46.4
								0.281	7.14	-	47.22	70.30	630	44.3	740	52.0
								0.312	7.92	20	52.32	77.83	700	49.2	820	57.7
				0.344	8.74	-	57.57	85.71	770	54.1	900	63.3				
				0.375	9.53	30	62.64	93.27	840	59.1	980	68.9				
				0.438	11.13	-	72.86	108.49	990	69.6	1150	80.9				
				0.469	11.91	-	77.87	115.86	1060	74.5	1230	86.5				
				0.500	12.70	40	82.85	123.30	1120	78.7	1310	92.1				
				0.656	16.66	60	107.60	160.12	1480	104.1	1720	120.9				
				18	450	18.000	457.00	0.250	6.35	10	47.44	70.57	500	35.2	580	40.8
								0.281	7.14	-	53.23	79.21	560	39.4	660	46.4
								0.312	7.92	20	58.99	87.71	620	43.6	730	51.3
								0.344	8.74	-	64.93	96.61	690	48.5	800	56.2
								0.375	9.53	-	70.65	105.16	750	52.7	880	61.9
0.406	10.31	-	76.36					113.57	810	56.9	950	66.8				
0.438	11.13	30	82.23					122.38	880	61.9	1020	71.7				
0.469	11.91	-	87.89					130.72	940	66.1	1090	76.6				
0.500	12.70	-	93.54					139.15	1000	70.3	1170	82.3				
0.562	14.27	40	104.76					155.80	1120	78.7	1310	92.1				
0.750	19.05	60	138.30					205.74	1500	105.5	1750	123.0				
20	500	20.000	508.00					0.250	6.35	10	52.78	78.55	450	31.6	520	36.6
								0.281	7.14	-	59.23	88.19	510	35.9	590	41.5
								0.312	7.92	-	65.66	97.67	560	39.4	660	46.4
								0.344	8.74	-	72.28	107.61	620	43.6	720	50.6
				0.375	9.53	20	78.67	117.15	680	47.8	790	55.5				
				0.406	10.31	-	85.04	126.54	730	51.3	850	59.8				
				0.438	11.13	-	91.59	136.37	790	55.5	920	64.7				
				0.469	11.91	-	97.92	145.70	850	59.8	950	66.8				
				0.500	12.70	30	104.23	155.12	900	63.3	1050	73.8				
				0.594	15.09	40	123.23	183.42	1170	82.3	1250	87.9				

AS/NZS 1163

General Structural and Engineering Applications

一般結構和工程應用鋼管



結構用管
Structure

等級 Grade C350 / C350L0					
圓管 Round Section					
外徑 O.D.	厚度 W.T.	單位重量 Mass/Unit Length	外徑 O.D.	厚度 W.T.	單位重量 Mass/Unit Length
mm	mm	kg/m	mm	mm	kg/m
42.4	3.2	3.09	139.7	5.0	16.61
	4.0	3.79		5.4	17.88
48.3	3.2	3.56	165.1	3.0	11.99
	4.0	4.37		3.5	13.95
60.3	3.6	5.03		5.0	19.74
	4.5	6.19	168.3	5.4	21.27
	5.4	7.31		4.8	19.35
76.1	2.3	4.19		6.4	25.55
	3.2	5.75	219.1	7.1	28.22
	3.6	6.44		4.8	25.37
	4.5	7.95		6.4	33.57
88.9	2.6	5.53	273.1	8.2	42.65
	3.2	6.76		4.8	31.76
	4.0	8.38		6.4	42.09
	4.8	9.96	323.9	9.3	60.50
	5.0	10.35		6.4	50.11
	5.5	11.31		9.5	73.65
	5.9	12.08		12.7	97.46
101.6	2.6	6.35	355.6	6.4	55.11
	3.2	7.76		9.5	81.08
	4.0	9.63		12.7	107.39
	5.0	11.91	406.4	6.4	63.13
114.3	3.2	8.77		9.5	92.98
	3.6	9.83		12.7	123.30
	4.5	12.19	457.0	6.4	71.12
	4.8	12.96		9.5	104.84
	5.4	14.50		12.7	139.15
139.7	6.0	16.02	508.0	6.4	79.17
	3.0	10.11		9.5	116.78
	3.5	11.76		12.7	155.12



等級 Grade C350 / C350L0					
方管 Square Section			扁管 Rectangular Section		
外徑 O.D.	厚度 W.T.	單位重量 Mass/Unit Length	外徑 O.D.	厚度 W.T.	單位重量 Mass/Unit Length
mm	mm	kg/m	mm	mm	kg/m
20 X 20	1.6	0.87	20 X 50	1.6	1.63
	1.6	1.12		2.0	1.99
25 X 25	2.0	1.36	25 X 50	1.6	1.75
	2.5	1.64		2.0	2.15
	3.0	1.89		2.5	2.62
30 X 30	1.6	1.38		3.0	3.07
	2.0	1.68	25 X 75	1.6	2.38
40 X 40	1.6	1.88		2.0	2.93
	2.0	2.31		2.5	3.60
	2.5	2.82	50 X 75	2.0	3.72
50 X 50	1.6	2.38		2.5	4.58
	2.0	2.93		3.0	5.42
	2.5	3.60		4.0	7.02
	3.0	4.25	50 X 100	2.0	4.50
	4.0	5.45		2.5	5.57
75 X 75	2.5	5.57		3.5	7.61
	3.0	6.60		4.0	8.59
	3.5	7.61		5.0	10.49
	4.0	8.59		6.0	12.27
	5.0	10.49	75 X 125	3.0	8.96
89 X 89	6.0	12.27		4.0	11.73
	3.5	9.15		5.0	14.41
	5.0	12.68	100 X 150	4.0	14.87
100 X 100	6.0	14.91		5.0	18.34
	3.0	8.96		6.0	21.69
	4.0	11.73	100 X 200	4.0	18.01
	5.0	14.41		5.0	22.26
	6.0	16.98		6.0	26.40
125 X 125	4.0	14.87		9.0	38.21
	5.0	18.34	150 X 250	5.0	30.11
	6.0	21.69		6.0	35.82
150 X 150	5.0	22.26		9.0	52.34
	6.0	26.40			
200 X 200	5.0	30.11			
	6.0	35.82			
	9.0	52.34			
250 X 250	6.0	45.24			
	9.0	66.47			

*厚度公差 W.T. Tolerance : $\pm 10\%$

*重量公差 Mass Tolerance : + 未規定 Unspecified / -4%

*外徑公差 O.D. Tolerance : $\pm 1\%$,

最小公差值 with a min. of $\pm 0.5\text{mm}$

CSA G40.20/G40.21 & ASTM A500

Carbon Steel Pipes for General Structure

一般結構用碳鋼鋼管

圓管 Round Section					
規範外徑 Specified Outside Diameter		規範厚度 Specified Wall thickness		單位重量 Mass Per Unit Length	
inch	mm	inch	mm	lb/ft	kg/m
1.050	26.7	0.100	2.54	1.02	1.51
1.315	33.4	0.100	2.54	1.30	1.93
		0.125	3.18	1.59	2.37
		0.133	3.38	1.68	2.50
1.660	42.2	0.100	2.54	1.67	2.48
		0.110	2.79	1.82	2.71
		0.125	3.18	2.05	3.06
		0.140	3.56	2.27	3.39
1.900	48.3	0.100	2.54	1.92	2.87
		0.110	2.79	2.10	3.13
		0.125	3.18	2.37	3.54
		0.145	3.68	2.72	4.05
		0.188	4.78	3.44	5.13
2.375	60.3	0.125	3.18	3.01	4.48
		0.154	3.91	3.66	5.44
		0.188	4.78	4.40	6.54
		0.190	4.83	4.44	6.61
		0.218	5.54	5.03	7.48
2.500	63.5	0.125	3.18	3.17	4.73
		0.188	4.78	4.65	6.92
2.875	73.0	0.125	3.18	3.67	5.48
		0.156	3.96	4.53	6.74
		0.188	4.78	5.40	8.04
3.000	76.2	0.120	3.05	3.69	5.50
		0.188	4.78	5.65	8.42
		0.100	2.54	4.17	6.20
4.000	101.6	0.156	3.96	6.41	9.53
		0.188	4.78	7.66	11.41
		0.226	5.74	9.12	13.57
		0.250	6.35	10.02	14.92
		0.125	3.18	4.51	6.72
3.500	88.9	0.156	3.96	5.58	8.30
		0.188	4.78	6.66	9.92
		0.216	5.49	7.58	11.29
		0.250	6.35	8.69	12.93
		0.125	3.18	5.85	8.71
4.500	114.3	0.156	3.96	7.24	10.78
		0.188	4.78	8.67	12.91
		0.237	6.02	10.80	16.08
		0.250	6.35	11.36	16.90
		0.125	3.18	6.51	9.71
5.000	127.0	0.156	3.96	8.08	12.02
		0.188	4.78	9.67	14.41
		0.216	5.49	11.05	16.45
		0.156	3.96	9.02	13.41
		0.188	4.78	10.80	16.09
5.563	141.3	0.219	5.56	12.51	18.61
		0.250	6.35	14.20	21.13
		0.281	7.14	15.87	23.62
		0.313	7.95	17.57	26.14
		0.156	3.96	9.02	13.41

圓管 Round Section :

*厚度公差 W.T. Tolerance : CSA +10%/-5% ; ASTM ±10%

*外徑公差 O.D. Tolerance :

- CSA ≤65mm ±0.5mm / >65~90mm ±0.8mm / >90~140mm ±1.0mm / >140mm ±1%

- ASTM ≤48.3mm ±0.50% / >48.3mm ±0.75%

圓管 Round Section					
規範外徑 Specified Outside Diameter		規範厚度 Specified Wall Thickness		單位重量 Mass Per Unit Length	
inch	mm	Inch	mm	lb/ft	kg/m
6.625	168.3	0.125	3.18	8.69	12.95
		0.188	4.78	12.94	19.28
		0.219	5.56	15.00	22.31
		0.250	6.35	17.04	25.36
		0.280	7.11	18.99	28.26
		0.313	7.95	21.12	31.44
		0.375	9.53	25.05	37.31
8.625	219.1	0.188	4.78	16.96	25.26
		0.219	5.56	19.68	29.28
		0.250	6.35	22.38	33.32
		0.322	8.18	28.58	42.55
		0.375	9.53	33.07	49.25
		0.406	10.31	35.67	53.08
		0.438	11.13	38.33	57.08
9.625	244.5	0.500	12.70	43.43	64.64
		0.188	4.78	18.97	28.26
		0.219	5.56	22.02	32.76
		0.250	6.35	25.05	37.29
		0.313	7.95	31.16	46.38
		0.375	9.53	37.08	55.22
		0.438	11.13	43.02	64.05
10.750	273.1	0.500	12.70	48.77	72.60
		0.188	4.78	21.23	31.63
		0.250	6.35	28.06	41.77
		0.313	7.95	34.92	51.98
		0.365	9.27	40.52	60.31
		0.375	9.53	41.59	61.94
		0.438	11.13	48.28	71.90
12.750	323.9	0.500	12.70	54.79	81.55
		0.250	6.35	33.41	49.73
		0.313	7.95	41.61	61.94
		0.375	9.53	49.61	73.88
		0.438	11.13	57.65	85.85
		0.500	12.70	65.48	97.46
		0.250	6.35	36.75	54.69
14.000	355.6	0.313	7.95	45.80	68.16
		0.375	9.53	54.62	81.33
		0.438	11.13	63.50	94.55
		0.500	12.70	72.16	107.39
		0.250	6.35	42.09	62.64
		0.313	7.95	52.49	78.12
		0.375	9.53	62.64	93.27
16.000	406.4	0.438	11.13	72.86	108.49
		0.500	12.70	82.85	123.30

*尺寸範圍表外的產品也歡迎向我們公司人員諮詢。

If required size is absent from the table, please contact us for further assistance.

CSA G40.20/G40.21 & ASTM A500

Carbon Steel Pipes for General Structure

一般結構用碳鋼鋼管

方管 Square Section

規範外徑 Specified Outside Diameter		規範厚度 Specified Wall Thickness		單位重量 Mass Per Unit Length	
inch	mm	inch	mm	lb/ft	kg/m
1 X 1	25.4 X 25.4	0.065	1.65	0.79	1.18
		0.100	2.54	1.14	1.69
		0.125	3.18	1.35	2.01
1.25 X 1.25	31.8 X 31.8	0.100	2.54	1.48	2.20
		0.125	3.18	1.78	2.65
		0.100	2.54	1.82	2.71
1.5 X 1.5	38.1 X 38.1	0.125	3.18	2.21	3.28
		0.110	2.79	2.34	3.49
1.75 X 1.75	44.4 X 44.4	0.125	3.18	2.63	3.91
		0.125	3.18	3.06	4.55
2 X 2	50.8 X 50.8	0.188	4.78	4.33	6.45
		0.125	3.18	4.76	7.09
3 X 3	76.2 X 76.2	0.188	4.78	6.89	10.26
		0.250	6.35	8.81	13.11
		0.188	4.78	8.17	12.16
3.5 X 3.5	88.9 X 88.9	0.250	6.35	10.51	15.65
		0.125	3.18	6.47	9.62
		0.188	4.78	9.45	14.07
4 X 4	101.6 X 101.6	0.250	6.35	12.21	18.18
		0.125	3.18	8.17	12.16
		0.188	4.78	12.02	17.88
5 X 5	127.0 X 127.0	0.250	6.35	15.62	23.24
		0.125	3.18	9.88	14.70
		0.188	4.78	14.58	21.70
6 X 6	152.4 X 152.4	0.250	6.35	19.02	28.31
		0.313	7.95	23.37	34.78
		0.375	9.53	27.50	40.92
		0.500	12.70	35.25	52.45
		0.188	4.78	17.14	25.51
		0.250	6.35	22.42	33.37
7 X 7	177.8 X 177.8	0.313	7.95	27.63	41.12
		0.375	9.53	32.60	48.52
		0.500	12.70	42.05	62.58
		0.188	4.78	19.70	29.32
		0.250	6.35	25.83	38.44
8 X 8	203.2 X 203.2	0.313	7.95	31.89	47.46
		0.375	9.53	37.71	56.12
		0.500	12.70	48.86	72.71
		0.313	7.95	40.41	60.14
		0.375	9.53	47.93	71.32
10 X 10	254.0 X 254.0	0.500	12.70	62.47	92.97
		0.375	9.53	58.14	86.52
		0.500	12.70	76.08	113.23
		0.625	15.88	93.38	138.97
12 X 12	304.8 X 304.8	0.750	19.05	109.93	163.59
		0.375	9.53	68.36	101.72
		0.500	12.70	89.70	133.48
		0.625	15.88	110.40	164.30
14 X 14	355.6 X 355.6	0.750	19.05	130.35	193.98
		0.500	12.70	103.31	153.74
		0.625	15.88	127.43	189.63
16 X 16	406.4 X 406.4	0.750	19.05	150.77	224.37

方 / 扁管 Square / Rectangular Section :

*厚度公差 W.T. Tolerance : CSA +10%/-5% ; ASTM ±10%

*外徑公差 O.D. Tolerance :

- CSA ≤65mm ±0.5mm / >65~90mm ±0.8mm / >90~140mm ±1.0mm / >140mm ±1%

- ASTM ≤65mm ±0.5mm / >65~90mm ±0.6mm / >90~140mm ±0.8mm / >140mm 1%*長邊尺寸 large flat dimension

扁管 Rectangular Section

規範外徑 Specified Outside Diameter		規範厚度 Specified Wall Thickness		單位重量 Mass Per Unit Length	
inch	mm	inch	mm	lb/ft	kg/m
1 X 2	25.4 X 50.8	0.100	2.54	1.82	2.71
		0.125	3.18	2.21	3.28
1 X 3	25.4 X 76.2	0.100	2.54	2.50	3.72
		0.125	3.18	3.06	4.55
1.5 X 2.0	38.1 X 50.8	0.100	2.54	2.16	3.21
		0.125	3.18	2.63	3.92
1.5 X 3.0	38.1 X 76.2	0.125	3.18	3.91	5.82
		0.188	4.78	5.61	8.35
2 X 3	50.8 X 76.2	0.125	3.18	4.34	6.45
		0.188	4.78	6.25	9.31
2 X 4	50.8 X 101.6	0.125	3.18	4.76	7.09
		0.188	4.78	6.89	10.26
		0.250	6.35	8.81	13.11
3 X 5	76.2 X 127.0	0.125	3.18	6.47	9.62
		0.188	4.78	9.45	14.07
		0.250	6.35	12.21	18.18
3 X 6	76.2 X 152.4	0.125	3.18	7.32	10.89
		0.188	4.78	10.74	15.98
		0.250	6.35	13.92	20.71
4 X 6	101.6 X 152.4	0.125	3.18	8.17	12.16
		0.188	4.78	12.02	17.88
		0.250	6.35	15.62	23.24
		0.188	4.78	14.58	21.70
4 X 8	101.6 X 203.2	0.250	6.35	19.02	28.31
		0.313	7.95	23.35	34.74
		0.375	9.53	27.50	40.92
		0.500	12.70	35.25	52.45
		0.250	6.35	22.42	33.37
4 X 10	101.6 X 254.0	0.313	7.95	27.60	41.08
		0.375	9.53	32.60	48.52
		0.500	12.70	42.05	62.58
		0.250	6.35	25.83	38.44
4 X 12	101.6 X 304.8	0.313	7.95	31.86	47.41
		0.375	9.53	37.71	56.12
		0.500	12.70	48.86	72.71
		0.188	4.78	14.58	21.70
5 X 7	127.0 X 177.8	0.250	6.35	19.02	28.31
		0.313	7.95	23.35	34.74
		0.375	9.53	27.50	40.92
		0.500	12.70	35.25	52.45
		0.250	6.35	22.42	33.37
6 X 8	152.4 X 203.2	0.313	7.95	27.60	41.08
		0.375	9.53	32.60	48.52
		0.500	12.70	42.05	62.58
		0.250	6.35	25.83	38.44
6 X 10	152.4 X 254.0	0.313	7.95	31.86	47.41
		0.375	9.53	37.71	56.12
		0.500	12.70	48.86	72.71
		0.313	7.95	40.37	60.07
		0.375	9.53	47.93	71.32
8 X 12	203.2 X 304.8	0.500	12.70	62.47	92.97

JIS G 3444 / CNS 4435 G3102

Carbon Steel Pipes for General Structure

一般結構用碳鋼鋼管

可供應鋼管等級：STKR 30 / 41 / 50 / 51 / 55
Available Pipe Grade：STKR 30 / 41 / 50 / 51 / 55

外徑 O.D. mm	厚度 W.T. mm	外徑 O.D. mm	厚度 W.T. mm	外徑 O.D. mm	厚度 W.T. mm	外徑 O.D. mm	厚度 W.T. mm
21.7	2.0	101.6	3.2	216.3	4.5	406.4	12.7
27.2	2.0		4.0		5.8		16.0
	2.3		5.0		6.0		19.0
34.0	2.3		2.8		7.0		9.0
42.7	2.3	89.1	3.2	355.6	8.0	457.2	9.5
	2.5		3.2		8.2		12.0
48.6	2.3	114.3	3.5		6.4		12.7
	2.5		4.5		7.9		16.0
	2.8	139.8	3.6		9.0		19.0
	3.2		4.0		9.5		7.9
60.5	2.3	139.8	4.5	406.4	12.0	508.0	9.0
	3.2		6.0		12.7		9.5
	4.0	165.2	4.5		7.9		12.0
76.3	2.8		5.0		9.0		12.7
	3.2		6.0		9.5		14.0
	4.0		7.1		12.0		16.0
							19.0

公差 Tolerance

類別 Class NO.	外徑 O.D.	類別 Class NO.	厚度 W.T.
1	< 50mm ± 0.5mm	1	< 4mm +0.6 / -0.5mm
	≥ 50mm ± 1%		≥ 4mm~12mm +15% / -12.5%
2	< 50mm ± 0.25mm		≥ 12mm +15% / -1.5mm
	≥ 50mm ± 0.5%	2	< 3mm ± 0.3mm
			≥ 3mm~12mm ± 10%
			≥ 12mm +10% / -1.2mm

*如無特別指定時通用類別1
General applicable for Cass No.1, if not specified

*尺寸範圍表外的產品也歡迎向我們公司人員諮詢。
If required size is absent from the table, please contact us for further assistance.

JIS G 3445 / CNS 4437 G3103

Carbon Steel Tubes for Machine Structure

結構用管
Structure

機械構造用碳鋼鋼管

等級 Grade	級別符號 Symbol of Grade	化學成分 Chemical Composition %						機械性質 Mechanical Property		
		C	Si	Mn	P	S	Nb/V	抗拉 T.S. MPa	降伏 Y.S. MPa	伸長 E.L. %
11級	A	0.12max	0.35 max	0.60 max	0.04 max	0.04 max	-	290 min	-	35 min
	STKM 11A									
12級	A	0.20 max	0.35 max	0.60 max	0.04 max	0.04 max	-	340 min	175 min	35 min
	STKM 12A									
	B							390 min	275 min	25 min
13級	C	0.25 max	0.35 max	0.30~0.90	0.04 max	0.04 max	-	470 min	355 min	20 min
	STKM 12C									
	A							370 min	215 min	30 min
14級	B	0.30 max	0.35 max	0.30~1.00	0.04 max	0.04 max	-	440 min	305 min	20 min
	STKM 13A									
	C							510 min	380 min	15 min
15級	A	0.25~0.35	0.35 max	0.30~1.00	0.04 max	0.04 max	-	410 min	245 min	25 min
	STKM 14A									
	B							500 min	355 min	15 min
16級	C	0.35~0.45	0.40 max	0.40~1.00	0.04 max	0.04 max	-	550 min	410 min	15 min
	STKM 14C									
	A							470 min	275 min	22 min
17級	B	0.45~0.55	0.40 max	0.40~1.00	0.04 max	0.04 max	-	580 min	430 min	12 min
	STKM 15A									
	C							510 min	325 min	20 min
18級	A	0.18 max	0.55 max	1.50 max	0.04 max	0.04 max	-	620 min	460 min	12 min
	STKM 16A									
	C							550 min	345 min	20 min
19級	A	0.25 max	0.55 max	1.50 max	0.04 max	0.04 max	-	650 min	480 min	10 min
	STKM 17A									
	C							440 min	275 min	25 min
20級	B	0.18 max	0.55 max	1.50 max	0.04 max	0.04 max	-	490 min	315 min	23 min
	STKM 18A									
	C							510 min	380 min	15 min
21級	A	0.25 max	0.55 max	1.50 max	0.04 max	0.04 max	-	490 min	315 min	23 min
	STKM 19A									
	C							550 min	410 min	15 min
22級	A	0.25 max	0.55 max	1.60 max	0.04 max	0.04 max	0.15 max	540 min	390 min	23 min
	STKM 20A									

公差 Tolerance

類別 Division No.	外徑 O.D.	類別 Division No.	厚度 W.T.
1	<50mm ±0.5mm	1	<4mm +0.6mm / -0.5mm
	≥50mm ±1.0%		≥4mm +15.0% / -12.5%
2	<50mm ±0.25mm	2	<3mm ±0.3mm
	≥50mm ±0.50%		≥3mm ±10%
3	<25mm ±0.12mm	3	<2mm ±0.15mm
	≥25mm~<40mm ±0.15mm		≥2mm ±8%
	≥40mm~<50mm ±0.18mm		
	≥50mm~<60mm ±0.20mm		
	≥60mm~<70mm ±0.23mm		
	≥70mm~<80mm ±0.25mm		
	≥80mm~<90mm ±0.30mm		
	≥90mm~<100mm ±0.40mm		
	≥100mm ±0.50%		

JIS G 3466 / CNS 7141 G3134

Carbon Steel Square and Rectangular Pipe for General Structure

一般結構用矩形碳鋼鋼管

方管 Square Section				扁管 Rectangular Section			
外徑 O.D.	厚度 W.T.	外徑 O.D.	厚度 W.T.	外徑 O.D.	厚度 W.T.	外徑 O.D.	厚度 W.T.
mm	mm	mm	mm	mm	mm	mm	mm
40 X 40	1.6	125 X 125	3.2	20 X 50	1.6	100 X 150	3.2
	2.3		4.5		2.3		4.5
50 X 50	1.6		5.0	30 X 60	1.6	100 X 200	6.0
	2.3		6.0		2.3		4.5
	3.2		4.5		3.2		6.0
60 X 60	1.6	150 X 150	5.0	40 X 80	1.6	150 X 200	9.0
	2.3		6.0		2.3		4.5
	3.2		9.0		3.2		6.0
75 X 75	1.6		4.5	50 X 100	1.6		9.0
	2.3	175 X 175	5.0		2.3	150 X 250	6.0
	3.2		6.0		3.2		9.0
	4.5		6.0		4.5		12.0
80 X 80	2.3	200 X 200	8.0	75 X 125	2.3	200 X 300	9.0
	3.2		9.0		3.2		12.0
	4.5		12.0		4.0	150 X 350	9.0
90 X 90	2.3	250 X 250	8.0		4.5		12.0
	3.2		9.0		6.0	200 X 400	9.0
100 X 100	2.3		12.0	75 X 150	3.2		12.0
	3.2	300 X 300	9.0				
	4.0		12.0				
	4.5	350 X 350	9.0				
	6.0		12.0				



*厚度公差 W.T. Tolerance : <3mm ±0.3mm / ≥3mm ±10%
 *外徑公差 O.D. Tolerance : ≤100mm ±1.5mm / >100mm ±1.5%
 *尺寸範圍表外的產品也歡迎向我們公司人員諮詢。
 If required size is absent from the table, please contact us for further assistance.

鋼捲  鋼帶  鋼板 

其他
Others

Coil, Strip, Sheet and Plate

產品應用 Application

產品廣泛用於建築、橋梁、工業機械、農業機械等領域。
 Used in wide range of industries such as construction, industrial machinery, agricultural machinery, etc.

產品種類 Material

熱軋、冷軋、鍍鋅、花板、酸洗
 Hot-Rolled, Cold-Rolled, Galvanized, Checkered, Pickled and Oiled

可承製尺寸範圍 Size Range

鋼帶 Strip :

厚度 Thickness 1.0 mm - 20.0 mm
 寬度 Width Within 1650 mm 以內

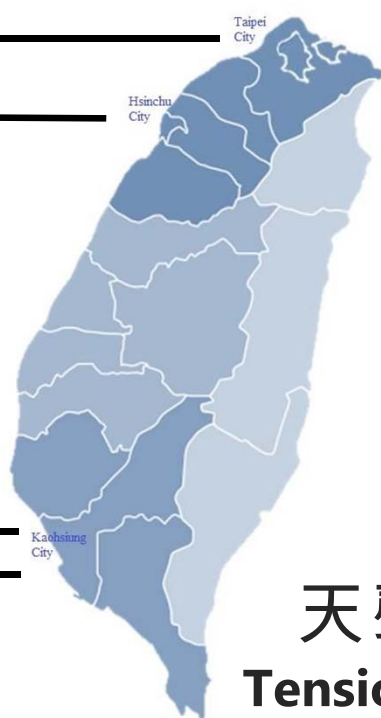
鋼板 Sheet & Plate :

厚度 Thickness 1.0 mm - 16.0 mm
 寬度 Width Within 1550 mm 以內

*尺寸範圍表外的產品也歡迎向我們公司人員諮詢。
 If required size is absent from the table, please contact us for further assistance.



總公司
Headquarters
新竹倉庫
HsinChu Warehouse



路竹工廠 LuZhu Mill
岡山工廠 GangShan Mill

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