永遠最好
Always the best

鑫陽鋼鐵股份有限公司
SHIN YANG STEEL CO., LTD.

碳鋼鋼管產品
CARBON STEEL E.R.W. PIPES & TUBES

- 黑鋼管
  Black Steel Pipes
- 鍍鋅鋼管
  Hot-Dip Zinc-Coated Steel Pipes
- 配管用鋼管
  Steel Pipes for Ordinary Piping
- 結構用鋼管
  Structural Steel Pipes
- 電線用鋼管
  Rigid Steel Conduit
- API套管及線管
  API Casing and Line Pipes
- 消防撒水管
  Steel Sprinkler Pipes
- 矩形管
  Rectangular Steel Pipes
- 橢圓管
  Cattle Rail Pipes (Oval Rails)

義联集團
E UNITED GROUP

永遠最好
Always the best
燁輝企業
YIEH PHUI

鑫陽鋼鐵 SHIN YANG

專業是我們的優勢・品質是我們的榮譽

Professionalism Is Our Strength. Quality Product Is Our Pride.



鑫陽鋼鐵鋼管一廠全景 SHIN YANG STEEL NO.1 STEEL PIPE MILL PANORAMA



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聲明

鑫陽已盡力確保本型錄中資料之準確性。本型錄包含的所有資料若有任何更改，恕不另行通知。如有任何問題請洽詢鑫陽鋼管銷售部。

Shin Yang has endeavored to ensure the information provided in this brochure is correct at the time of publication. However, the information may be amended without notice. All enquiries should be made to Shin Yang Pipe Marketing & Sales Division.

前言

FOREWORD

自 1930 年代以來，隨著熱、冷軋鋼帶連續軋延生產技術的迅速發展，以及銲接、檢驗技術的進步，使得銲接品質不斷的提升，銲接鋼管的生產規格種類也日益增多，並在越來越多的領域替代了無縫鋼管的使用。近年來更由於有縫銲接鋼管生產技術成熟精進，生產效率高及成本低廉，而迅速促進了有縫鋼管產業的蓬勃發展。

鑫陽鋼鐵股份有限公司 (以下簡稱鑫陽) 是燁輝企業股份有限公司 (以下簡稱燁輝企業或燁輝) 基於全球鋼管市場發展策略考量，100%轉投資之子公司。鑫陽之前身為燁輝企業所屬之鋼管事業部，係燁輝企業於 2003 年 3 月併購原燁興企業鋼管廠時，同時設立之鋼管事業單位。其自燁興 1978 年開始建廠生產以來，即專營直縫鋼管之生產及銷售，迄今已經超過 45 年，產品包括各種黑鋼管、鍍鋅鋼管、**EMT** 鋼管、矩形管、**API** 套管及管線等，目前擁有九部製管機設備，年設計產能可達 37 萬公噸，不論結構用鋼管或配管用鋼管，均是台灣產量最大之專業鋼管製造廠。

為提高客戶服務品質，提升客戶滿意度，鑫陽將承襲義聯集團及燁輝公司—創新、成長、責任、永續之經營理念及優良的企業文化，並且以精實的品質與服務管理，繼續服務海內外客戶。另外，為確保產品品質符合客戶需求，鑫陽鋼鐵公司已建立一套完整的鋼管品質管理系統，在國內先後獲得 **ISO** 9001 及多項 **CNS** 認證，在國外也陸續通過美國 **UL**、**FM** 等消防認證與新 **JIS Mark** 日本工業規格、**API** 套管及管線認證，亦順利取得 **OHSAS** 18001 職業安全衛生管理系統及 **TAF** 檢測實驗室認證。鑫陽之鋼管產品行銷海內、外，諸如美國、澳大利亞、日本等地區，頗獲客戶之好評，也是台灣公營機關指定使用的鋼管產品。

鑫陽在 2011 年 3 月 1 日正式營運，並於 2011 年 5 月 1 日正式投產。另增設年產 2.5 萬公噸之中型管車及年產 12 萬公噸之 **API** 石油管線及套管之生產設備，已分別於 2011 年 8 月及 2012 年 1 月投產。期望舊雨新知繼續給予鑫陽支持及鼓勵，攜手共創未來。

With the rapid development of continuous hot-rolled and cold-rolled steel strip production and the advancement in welding and inspection technologies, the quality of welding has been continuously enhancing since 1930s. The specification of steel pipes and tubes has also increased day by day, and they have replaced the usage of seamless steel pipes and tubes in many fields. Due to the great improvement of production technology, high productivity and low cost, the welded steel pipe and tube production has grown rapidly and vigorously in recent years.

Due to the consideration of development strategies in global steel pipe market, YIEH PHUI established SHIN YANG STEEL CO., LTD. (hereinafter called SHIN YANG) and holds 100% of its shares. In March 2003, YIEH HSING's steel pipe mill was acquired by YIEH PHUI. The Pipe Business Division, the forerunner of SHIN YANG, was then established and started operating. Since its commission in 1978, YIEH HSING has specialized in the manufacturing and sales of welded steel pipes over 45 years. The products include all kinds of black steel pipes, galvanized steel pipes, EMT steel pipes, rectangular pipes, API steel pipes, pipelines, etc. SHIN YANG now owns 9 pipe-forming equipment. Its annual capacity reaches 370,000 metric tons, and thus it is the largest steel pipe and tube producer for both structural and ordinary piping in Taiwan.

In order to enhance the quality of service and increase customer satisfaction, inheriting the intrinsic excellent corporate culture of E United Group and Yieh Phui: innovation, growth, responsibility and continuity, quality and service management, SHIN YANG will keep providing services to the customers in Taiwan and all over the world. In order to ensure pipes and tubes meeting our customers' expectation, SHIN YANG has implemented a comprehensive quality assurance program, and has been awarded ISO 9001, CNS, UL, FM, API and JIS certificates. We, furthermore, have succeeded in obtaining OHSAS 18001 and TAF's testing measurement laboratory certificate. SHIN YANG's products have been delivered into international markets, especially to the U.S.A., Australia, and Japan. Our customers give our products high ratings. Our pipe and tube products are also designated for use by Taiwan state-owned enterprises.

SHIN YANG officially operates on March 1, 2011, and the first pipe was manufactured on May 1 in the same year. we have installed the pipe-forming equipment for middle-dimension pipe with annual capacity of 25,000mt and the production facilities for petroleum pipes and API casing (annual capacity: 120,000mt). The commission started in August and January 2012 respectively. SHIN YANG thanks for your generous support and looks forward to working with you, hand in hand for a bright future.

沿革

鑫陽鋼鐵 SHIN YANG

COMPANY HISTORY

1978 年		燁興企業所屬之鋼管廠開始建廠。
1980 年		第一期建廠工程完成，生產各種結構用鋼管及鍍鋅鋼管。
1981 年		取得經濟部標準檢驗局之 CNS ㊣字標記機械結構用碳鋼鋼管、低壓有縫 鋼管 (白鋼管)、低壓有縫鋼管 (黑鋼管) 證書。
1986 年		進行第二期擴建工程，生產各種傢俱管、運動器材管及 EMT 管。
1989 年		取得經濟部標準檢驗局之 CNS ㊣字標記電線用鋼管、一般結構用碳鋼鋼管、壓力配管用碳鋼鋼管、一般結構矩形用碳鋼鋼管證書。
1991 年		投資更新由日本森機械株式會社製造的直邊成型製管機設備 2 部。
1995 年		取得經濟部標準檢驗局之 ISO 9001 鋼管類產品品質管理系統驗證證書。
1998 年		取得經濟部標準檢驗局之 CNS ㊣字標記配管用碳鋼鋼管證書。
2003 年	3 月	燁輝企業併購燁興企業鋼管廠，同時設立鋼管事業部正式生產營運。
2005 年	2 月	取得美國消防撒水管 UL 與加拿大 CUL 認證。
2006 年	2 月	取得美國石油協會認證 API Spec 5L PSL 1 與 API Spec 5CT Group 1。
		取得美國消防撒水管 FM 認證 (1¼"~2")。
	7 月	取得美國消防撒水管 FM 認證 (2¼"~4")。
2010 年	7 月	投資設置 API 鋼管生產線。
	12 月	投資設置方、矩形製管車。
2011 年	3 月	『鑫陽鋼鐵股份有限公司』正式營運，成為專業鋼管製造公司。
		取得美國石油協會認證 API Spec 5L PSL 1 與 API Spec 5CT Group 1。
		取得經濟部標準檢驗局之 ISO 9001 鋼管類產品品質管理系統驗證。
	5 月	『鑫陽鋼鐵股份有限公司』正式投產。
		取得行政院原子能委員會鋼鐵業輻射偵檢作業認可證明。
		取得美國消防撒水管 UL、 FM 與加拿大 CUL 認證。
		取得經濟部標準檢驗局 CNS 8 項㊣字標記產品證書。
	8 月	中型管車安裝完成開始試俥投產。
2012 年	1 月	API 管車安裝完成開始試俥投產。
		取得經濟部標準檢驗局之 OHSAS18001 職業安全衛生管理系統驗證。
	4 月	取得全國認證基金會 TAF 之檢測實驗室認證。
2013 年	7 月	取得新 JIS Mark 日本工業規格認證。
2016 年	11 月	取得 UL TVYR 燃氣用管認證。
2020 年	8 月	取得澳洲 AS/NZS 1163 : 2016 之 FPC. 驗證合格工廠證書。
2021 年	1 月	取得最新版金屬工廠研究發展中心之 ISO 45001：2018 臺灣職業安全衛生管理系統驗證證書。
2023 年	1 月	取得澳洲 AS/NZS 1163 : 2016 之 BSI. 驗證合格工廠證書。

1978		The first phase of steel pipe mill construction was started by YIEH HSING.
1980		The first phase of steel pipe mill construction was completed, specializing in manufacturing various kinds of structural and galvanized steel pipes & tubes, etc.
1981		The mill obtained certificates of Chinese National Standards Mark of MOEA in Taiwan, including carbon steel pipes for machine structures, and welded steel pipes for low pressure use (galvanized & black steel pipes).
1986		The second phase of expansion was carried out, which enables the professional production of pipes & tubes for use in furniture material, sport equipment, electrical metallic tubing (EMT), and so forth.
1989		The mill obtained certificates of Chinese National Standards Mark of MOEA in Taiwan, including rigid steel conduit, carbon steel pipes for general structures, carbon steel pipes for pressure service, and carbon steel rectangular pipes for general structures.
1991		Two sets of straight-edge forming tube mill from Mori Machinery of Japan were installed.
1995		The mill obtained ISO 9001 steel pipe related products certificate of Chinese National Standards Mark of MOEA in Taiwan.
1998		The mill obtained carbon steel pipes for ordinary piping certificate of Chinese National Standards Mark of MOEA in Taiwan.
Mar.	2003	YIEH PHUI acquired the steel pipe mill of YIEH HSING Enterprise Co., Ltd. In the same year, the Pipe Business Division was established and started operating.
Feb.	2005	The mill obtained Metallic Sprinkler Pipe UL in the U.S.A.& CUL Approval in Canada.
Feb.	2006	The mill obtained API Spec 5L PSL 1 and 5CT Group 1 certificates in the U.S.A. The mill also obtained SPS Flow Steel Sprinkler Pipe FM Approval (1¼" ~2") in the U.S.A.
Jul.	2010	The mill obtained SPS Flow Steel Sprinkler Pipe FM Approval (2½" ~4") in the U.S.A.
Jul.		An API petroleum pipe production line was under construction.
Dec.		The mill purchased and installed Carbon Steel Rectangular Tube Making Machine.
Mar.	2011	SHIN YANG STEEL CO., LTD. officially operated, becoming a professional steel pipe & tube producer. The mill obtained API Spec 5L PSL 1 and 5CT Group 1 certificates in the U.S.A. The mill obtained ISO 9001 steel pipe related products certificate of Chinese National Standards Mark of MOEA in Taiwan.
May		SHIN YANG commissioned. The mill obtained radiation inspection operation approval in steel industry from the Atomic Energy Council, the Executive Yuan, R.O.C. The mill obtained SPS Flow Steel Sprinkler Pipe UL & FM Approval in the U.S.A. and CUL Approval in Canada. The company has acquired eight CNS certificates from Bureau of Standards, Metrology & Inspection, M.O.E.A., R.O.C.
Aug.		The pipe-forming equipment for middle-dimension pipes started trial production.
Jan.	2012	API equipment installed and started trial production. SHIN YANG obtained OHSAS 18001 certification from Bureau of Standards, Metrology & Inspection, M.O.E.A.
Apr.		SHIN YANG acquired testing measurement laboratory certificate of accreditation from the Taiwan Accreditation Foundation (TAF).
Jul.	2013	SHIN YANG obtained Japanese Industrial Standard JIS Mark.
Nov.	2016	SHIN YANG welded black hot-dip galvanized steel pipe was verified by UL TVYR.
Aug.	2020	Shin Yang obtained the FPC (Factory Production Control) certification of compliance with Australian/ New Zealand Standard AS/NZS 1163:2016.
Jan.	2021	Shin Yang obtained the latest version of ISO 45001:2018 certification for Taiwan Occupational Safety and Health Management System from MIRDC (Metal Industries Research & Development Centre).
Jan.	2023	Shin Yang obtained the BSI (British Standards Institution) certification of compliance with Australian/New Zealand Standard AS/NZS 1163:2016.

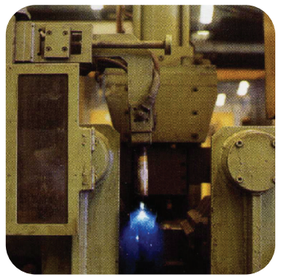
鋼管製造流程

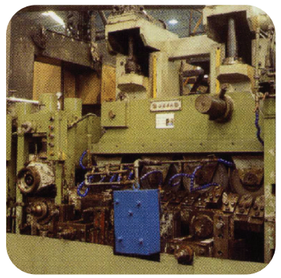
FLOW CHART OF MANUFACTURING STEEL PIPES

鑫陽鋼鐵 SHIN YANG

產製能力表 Manufacturing Capacity

產線別 LINE	生產外徑 O.D(inch)	生產厚度 THICKNESS(mm)	年設計產能 CAP./Y(mt)	製造商 MANUFACTURERS
製管一線 No.1 PIPE LINE	4" ~ 8" , 125x125mm~150x150mm	2.15~6.4	30000	義成 (Taiwan 台灣)
製管二線 No.2 PIPE LINE	1/2" ~ 3"	1.5~5.5	60000	森 MORI(Japan 日本)
製管三線 No.3 PIPE LINE	1/2" ~ 3"	1.5~5.5	60000	森 MORI(Japan 日本)
製管四線 No.4 PIPE LINE	4" ~ 6" , 75x75mm~100x100mm	1.7~5.8	30000	華興機械 (Taiwan 台灣)
製管六線 No.6 PIPE LINE	1/2" ~ 2"	0.82~2.43	20000	凱全 (Taiwan 台灣)
製管七線 No.7 PIPE LINE	1/2" ~ 2"	0.75~2.3	20000	凱全 (Taiwan 台灣)
製管八線 No.8 PIPE LINE	5/8" ~ 1" ,16x16mm~15x30mm	0.75~1.5	6000	成台 (Taiwan 台灣)
製管 A 線 No.A PIPE LINE	20x50mm~48x120mm	1.5~6.0	25000	慧登 (Taiwan 台灣)
製管 B 線 No.B PIPE LINE	4-1/2" ~13-3/8"	3.2~12.7	120000	華晟 (China 大陸)
鍍鋅一線 No.1 GALVANIZING LINE	1/2" ~ 4"	-	40000	協亞 (Japan 日本)

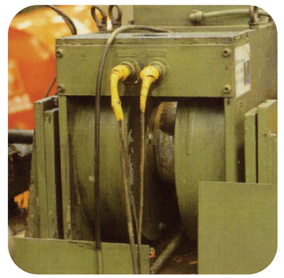

鋼帶接合
Strip Joining

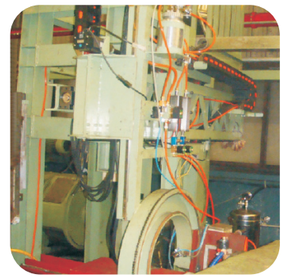

鋼管直邊成型
Straight-Edge Forming Section

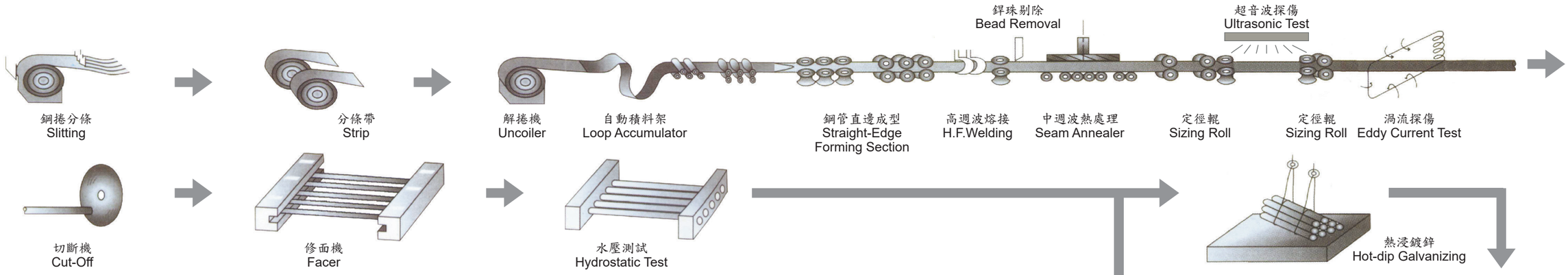

高週波熔接
H.F.Welding



中週波熱處理
Seam Annealer


渦流探傷
Eddy Current Test


超音波 (API 管)
Ultrasonic Test (API pipe)




修面機
Facer


水壓測試
Hydrostatic Test


熱浸鍍鋅
Hot-dip Galvanizing


包裝
Packing

產品用途

FLOW CHART OF MANUFACTURING STEEL PIPES

產品用途可分為
消防管、瓦斯管、冷凍管、空調管、鷹架管、壓力配管、電線用管、自動倉儲用管、千斤頂用管、結構用管、傢俱管、帳棚花架管等等。

PRODUCT APPLICATIONS

Steel pipe and tube for fire services, natural gas, refrigeration, air-conditioning, scaffolding, pressure services, rigid steel conduit, automatic warehouse, jack, general and machinery structure purposes, furniture, greenhouse farming services, and so forth.

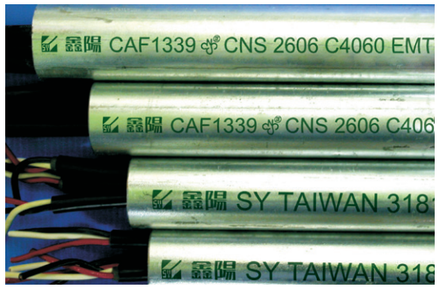
工程配管 project piping



消防管
Fire Services Pipe



瓦斯壓力配管
Gas Pressure Services



電線電纜用鍍鋅鋼製導線管
Galvanized steel conduits for electrical wires and cables



冷凍管
Refrigeration

加工類 Greenhousing, cage, aquaculture



巴士車架管
Bus Frame Services



高速公路護欄
Highway Guardrail



鷹架管
Scaffolding



太陽能支架用管
Structural pipe for solar power systems

溫網、溫室類 Greenhousing, cage, aquaculture



溫室支架管
Steel Tube for Greenhouse Farming Structure



溫室支架管
Steel Tube for Greenhouse Farming Structure



箱網養殖用管
Steel Tube for Mariculture Services as Material of Cage Aquaculture



農業園藝支撐用鋼管
Supporting pipe for fruiters

品質保證

QUALITY ASSURANCE

為確保所產製之鋼管達到客戶之要求，本公司除建立一套完整、嚴密之品質管理制度外，更不惜投下鉅資，配合最新式之生產設備，購置各種精密之試驗檢測儀器，作為製程解析回饋改善之用，並設立鋼管技術部，提供客戶售前、售後服務以達到品質保證之目的，並提供研究發展之需。

為強化品保制度，燁輝企業於 2003 年 3 月起陸續申請並通過經濟部標準檢驗局 ISO 9001 國際認證，與榮獲經濟部標準檢驗局㊣字標記；另外，於 2005 年 2 月取得美國消防撒水管 UL 與加拿大 CUL 認證；2006 年 2 月取得美國石油協會 API 5L、5CT 認證，並取得美國消防撒水管 FM 認證。

而鑫陽於 2011 年 3 月取得經濟部標準檢驗局 ISO 9001 國際認證及 5 月取得標準檢驗局 CNS 8 項㊣字標記認證。同時 3 月也取得美國石油協會 API 5L、5CT 認證及 5 月取得美國消防撒水管 UL、FM 與加拿大 CUL 認證。另外 2012 年 4 月也取得 TAF 之檢測實驗室認證，以及於 2013 年 7 月取得新 JIS 日本工業規格認證。由此可以證明本公司產品之精良及品質保證作業體系之完整嚴密。



手提式超音波
Ultrasonic Phase Array



X 射線螢火光譜儀
Energy Dispersive X-Ray
Fluorescence Analysis (EDXRF)



拉伸試驗機
Tension Tester



金相組織測試
Metallurgical Microscope

We have established and implemented a comprehensive quality assurance program to ensure that the quality of our products, at a minimum, meets our customer requirements. In addition, we have invested in advanced on-line testing equipments and laboratory facilities for the analysis and improvement of the production processes. Our Technology Division provides pre-sales and after-sales service to our customers as a step in realizing the aims of our QA program and sets objectives for our R&D program.

In order to further strengthen our quality assurance, Yieh Phui has applied and been granted ISO 9001 and the standard mark ㊣ from the Bureau of Standards, Metrology & Inspection (BSMI) since March 2003. In addition, the mill obtained Metallic Sprinkler Pipe UL Approval in the U.S.A. and CUL Approval in Canada in February 2005; it also obtained API 5L & 5CT certificates and SPS Flow Steel Sprinkler Pipe FM Approval in the U.S.A. in February 2006.

Shin Yang was granted ISO 9001 registration in March 2011 and CNS standard mark ㊣ for eight products issued by BSMI, Ministry of Economic Affairs in May 2011. Besides, Shin Yang acquired API 5L & 5CT from American Petroleum Institute in March, and Metallic Sprinkler Pipe UL & FM and CUL Approval in May 2011. In April of 2012, Shin Yang earned the certificate of accreditation for testing measurement laboratory, and obtained Japanese Industrial Standard JIS Mark in July 2013. This proves that our product quality and process systems are very advanced.



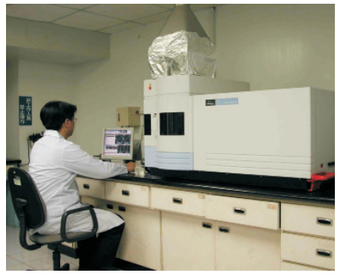
化驗室
Chemical Laboratory



LECO 輝光放電光譜儀
LECO Glow Discharge Spectrometer



鹽水噴霧試驗機
Salt Spray Tester



感應耦合電漿放射光譜儀
Inductively Coupled Plasma (ICP)
Optical Emission Spectrometer

產品及品保制度認證

鑫陽鋼鐵 SHIN YANG

CERTIFICATES OF PRODUCT AND QUALITY MANAGEMENT SYSTEM

認證機構 Certificate Authority	認證種類 Certificate Category	認證項目 Certificate Items	認證字號 Certificate No.
經濟部 標準檢驗局 Bureau of Standards, Metrology and Inspection, MOEA (BSMI)	正字標記認證 CNS Mark	CNS 2606 C4060 電線電纜用鍍鋅 鋼製導線管 Galvanized Steel conduits for electrical wires and cables	台正字第 7750 號 Taiwan CNS No.7750
		CNS 4435 G3102 一般結構用碳鋼鋼管 Carbon Steel Pipes for General Structures	台正字第 7753 號 Taiwan CNS No.7753
		CNS 4437 G3103 機械結構用碳鋼鋼管 Carbon Steel Pipes for Machine Structures	台正字第 7754 號 Taiwan CNS No.7754
		CNS 4626 G3111 壓力配管用碳鋼鋼管 Carbon Steel Pipes for Pressure Service	台正字第 7755 號 Taiwan CNS No.7755
		CNS 6445 G3127 配管用碳鋼鋼管 Carbon Steel Pipes for Ordinary Piping	台正字第 7756 號 Taiwan CNS No.7756
		CNS 7141 G3134 一般結構用矩形碳鋼鋼管 Carbon Steel Rectangular Pipes for General Structures	台正字第 7757 號 Taiwan CNS No.7757
	ISO 9001:2015/ CNS 12681	鋼管類產品 Steel Pipe Products	7M8Y009



ISO 9001
品質管理系統驗證證書
Quality Management System Certificate



鋼鐵業輻射偵檢作業認可證明
Radiation Inspection Operation Approval





ISO 45001 職業安全衛生管理系統驗證證書
Occupational Health And Safety Management System Certificate

產品及品保制度認證

CERTIFICATES OF PRODUCT AND QUALITY MANAGEMENT SYSTEM



CNS 6445 G3127 配管用碳鋼鋼管正字標記證書
Carbon Steel Pipes for Ordinary Piping



CNS 4626 G3111 壓力配管用碳鋼鋼管正字標記證書
Welded Steel Pipes for Pressure Service



CNS 7141 G3134 一般結構矩形碳鋼鋼管正字標記證書
Carbon Steel Rectangular Pipes for General Structures



CNS 2606 C4060 電線電纜用鍍鋅鋼製導線管正字標記證書
Galvanized Steel conduits for electrical wires and cables



CNS 4435 G3102 一般結構用碳鋼鋼管正字標記證書
Carbon Steel Pipes for General Structures



CNS 4437 G3103 機械結構用碳鋼鋼管正字標記證書
Carbon Steel Pipes for Machines Structures



TAF 財團法人全國認證基金會認證證書（中文版）



TAF Taiwan Accreditation Foundation
Approval Certificate (English edition)

產品及品保制度認證

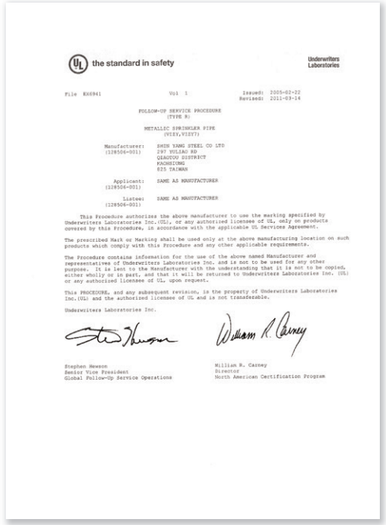
CERTIFICATES OF PRODUCT AND QUALITY MANAGEMENT SYSTEM



美國石油協會認證 API Spec 5L PSL 2
API Spec 5L PSL 2 Certificate



美國石油協會認證 API Spec 5CT Group 1
API Spec 5CT Group 1 Certificate



消防撒水管 UL 與 CUL 認證
Metallic Sprinkler Pipe UL & CUL Approval



JIS 日本工業規格表示證書
Certificate of Compliance with Japanese Industrial Standards



1¼"~2" 消防撒水管 FM 認證
SIZES 1¼"~2" SPS Flow Steel Sprinkler Pipe FM Approval



2½"~4" 消防撒水管 FM 認證
SIZES 2½"~4" SPS Flow Steel Sprinkler Pipe FM Approval



AS/NZS 1163：2016 生產管理認證
AS/NZS 1163：2016 Factory Production Control Certificate



BSI. AS/NZS 1163：2016 證書
BSI. Certificate of AS/NZS 1163：2016 Cold-Formed Structural Steel Hollow Sections

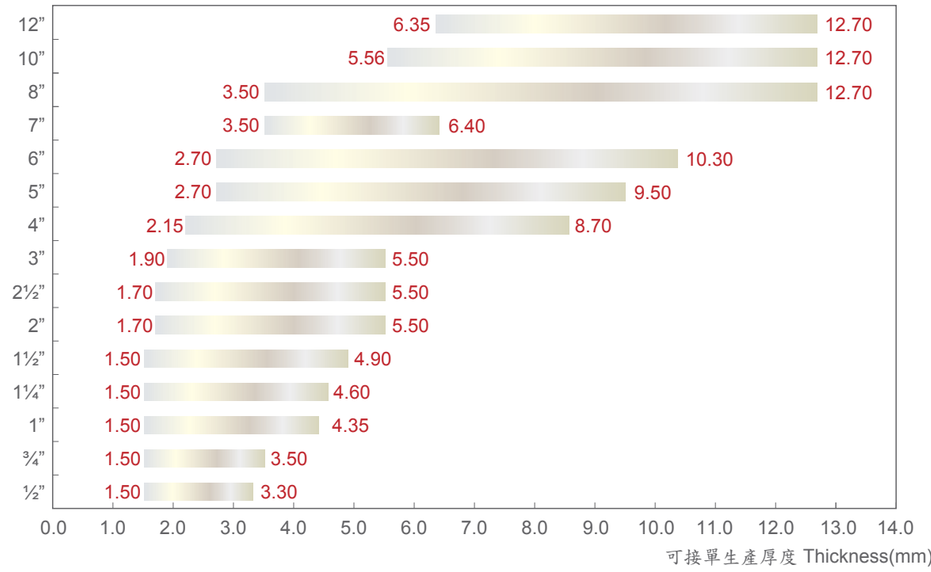
鋼管規格

SPECIFICATIONS FOR STEEL PIPES

生產尺寸範圍 Range of Product Dimension

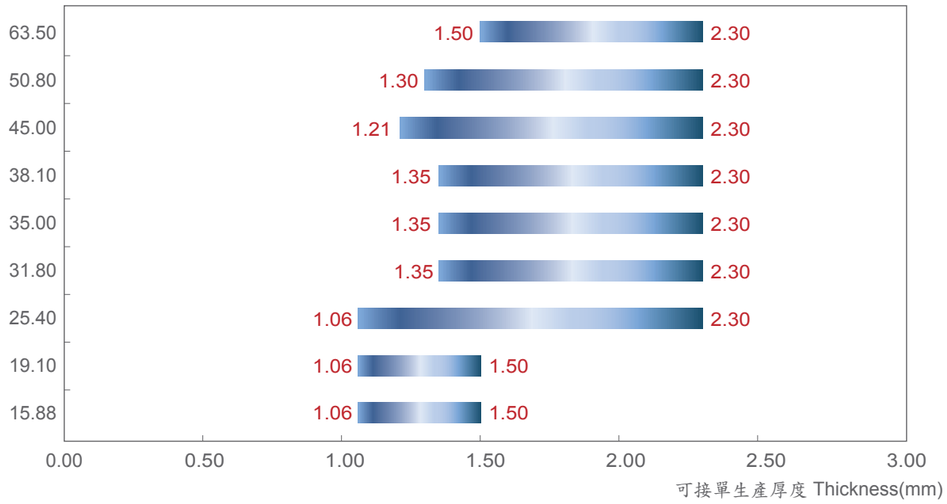
圓管-水道管外徑 Round Pipes

標稱管徑 Nominal Diameter(mm)



圓管-傢俱管外徑 Round Tubes

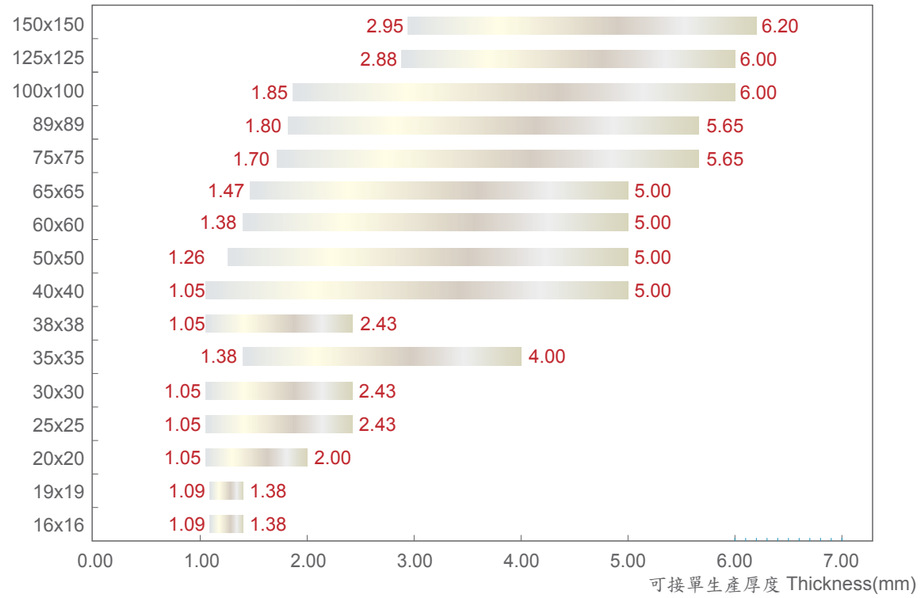
外徑 Outside Diameter(mm)



生產尺寸範圍 Range of Product Dimension

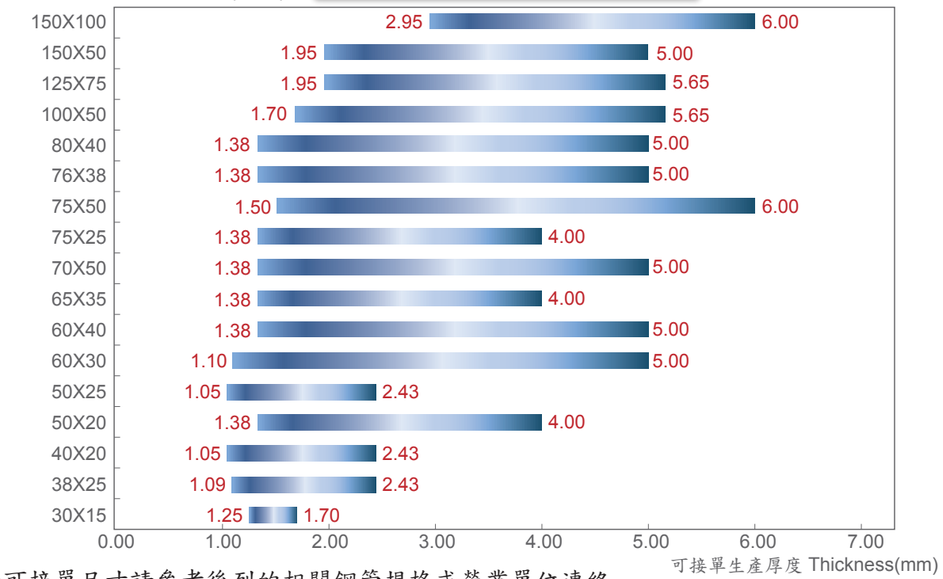
方形管 Square Hollow Section

外徑 Outside Diameter(mm)



矩形管 Rectangular Hollow Section

外徑 Outside Diameter(mm)



註：詳細可接單尺寸請參考後列的相關鋼管規格或營業單位連絡
For the detailed acceptable dimensions for pipe products, please refer to the following pages or contact our sales representatives.

直縫碳鋼鋼管規範對照表

WELDED CARBON STEEL PIPE SPECIFICATIONS

用途別 Use / 規範 Spec.	配管用管 Pipes for Ordinary Piping		結構用管 Structural Pipes		電線用管 Rigid Steel Conduit	API套管及線管 API Casing and Line Pipes	消防撒水管[3] Sprinkler Pipes	矩形管 Rectangular Pipes		傢俱用管 Furniture Pipes	橢圓管 Cattle Rail Pipes
	流體 Fluid	壓力 Pressure	一般用 General	機械用 Machine				一般用 General	結構用 Structural		
CNS[1]	6445	4626	4435	4437	2606				7141		
JIS[4]	G 3452	G 3454	G 3444	G 3445					G 3466		
ASTM	A53		A500				A135 A795				
CSA			G40.20/G40.21								
EN	10255	10217	10219								
BS	1387										
API[2]						5L 5CT					
AS/NZS	1074		1163					1163	1163		1450
ANSI					C80.1						
SYS[5]	◎	◎	◎	◎	◎	----	----	◎	◎	◎	◎

備註 Note

❶ 上述CNS鋼管產品皆已取得㊣字標誌詳列如后。
❷ API 5L與API 5CT皆已取得API monogram認證。
❸ ASTM A135與ASTM A795皆已取得UL、CUL與FM認證。
❹ JIS G 3452、G 3454、G 3444、G 3445、G 3466皆取得新JIS MARK認證。
❺ SYS表鑫陽廠內規格。
Shin Yang Standard.

❶ For all CNS products, Shin Yang has been authorized to use CNS ㊣ Monogram.
❷ For API 5L and 5CT products, Shin Yang has been authorized to use API Monogram.
❸ For ASTM A135 and A795 products, Shin Yang has been approved by UL, CUL, and FM.
❹ For JIS G 3452,G 3454、G 3444、G 3445、G 3466 Shin Yang has been authorized to use JIS industrial standard monogram.
❺ SYS refers to Shin Yang Standard.

各種鋼管產品規範

STANDARDS OF PIPE PRODUCTS

鑫陽鋼鐵 SHIN YANG

配管用管－CNS 6445/JIS G 3452配管用碳鋼鋼管
CNS 6445 G3127 Carbon Steel Pipes for Ordinary Piping.
JIS G 3452 Carbon Steel Pipes for Ordinary Piping.

標稱管徑 Nominal Diameter		外徑 Outside Diameter	外徑許可差 Tolerances on outside diameter		厚度 Wall Thickness	單位重量[1] Unit Mass
A	B	mm	螺紋鋼管（牙管）Pipes to be cut in taper thread	其它鋼管（平口）Other Pipes	mm	kg/m
15	½	21.7	±0.5mm	±0.5mm	2.8	1.31
20	¾	27.2	±0.5mm	±0.5mm	2.8	1.68
25	1	34.0	±0.5mm	±0.5mm	3.2	2.43
32	1¼	42.7	±0.5mm	±0.5mm	3.5	3.38
40	1½	48.6	±0.5mm	±0.5mm	3.5	3.89
50	2	60.5	±0.5mm	±1%	3.8	5.31
65	2½	76.3	±0.7mm	±1%	4.2	7.47
80	3	89.1	±0.8mm	±1%	4.2	8.79
100	4	114.3	±0.8mm	±1%	4.5	12.2
125	5	139.8	±0.8mm	±1%	4.5	15.0
150	6	165.2	±0.8mm	±1.6mm	5.0	19.8
175	7	190.7	±0.9mm	±1.6mm	5.3	24.2
200	8	216.3	±1.0mm	±0.8%	5.8	30.1
250	10	267.4	±1.3mm	±0.8%	6.6	42.4
300	12	318.5	±1.5mm	±0.8%	6.9	53.0

厚度公差 Thickness Tolerances	+不限制，-12.5%　　+not specified, -12.5%
備註 Note	❶ 此單位重量為不包括接頭之單位重量。 ❶ The Unit Mass doesn't include that of Coupling.

配管用鋼管

STEEL PIPES FOR ORDINARY PIPING

配管用管－CNS 4626/JIS G 3454 壓力配管用碳鋼鋼管
CNS 4626 G3111 Carbon Steel Pipes for Pressure Service.
JIS G 3454 Carbon Steel Pipes for Pressure Service.

標稱管徑 Nominal Diameter		外徑 Outside Diameter	標稱厚度號數 Nominal Wall Thickness					
			Schedule 20		Schedule 40		Schedule 60	
A	B		厚度 Wall Thickness	單位重量 Unit Mass	厚度 Wall Thickness	單位重量 Unit Mass	厚度 Wall Thickness	單位重量 Unit Mass
		mm	mm	kg/m	mm	kg/m	mm	kg/m
15	½	21.7	-	-	2.8	1.31	3.2	1.46
20	¾	27.2	-	-	2.9	1.74	3.4	2.00
25	1	34.0	-	-	3.4	2.57	3.9	2.89
32	1¼	42.7	-	-	3.6	3.47	4.5	4.24
40	1½	48.6	-	-	3.7	4.10	4.5	4.89
50	2	60.5	3.2	4.52	3.9	5.44	4.9	6.72
65	2½	76.3	4.5	7.97	5.2	9.12	請預先詢問 Please subject to prior negotiation.	
80	3	89.1	4.5	9.39	5.5	11.3		
100	4	114.3	4.9	13.2	6.0	16.0		
125	5	139.8	5.1	16.9	6.6	21.7		
150	6	165.2	5.5	21.7	7.1	27.7		
250	10	267.4	6.4	41.2	9.3	59.2	12.7	79.8
300	12	318.5	6.4	49.3	10.3	78.3	14.3	107.0
厚度公差 Thickness Tolerances		厚度未滿3mm：±0.3mm；厚度3mm 以上：±10%			Thickness under 3mm：±0.3mm；Thickness 3mm and above：±10%			

配管用管－BS 1387 銲接平口、絞牙鋼管
BS 1387 Screwed and Socketed Steel Tubes and Tubulars and for Plain End Steel Tubes Suitable for Welding or for Screwing to BS 21 Pipe Threads.

標稱尺度 Nominal Size		級別 Class	鋼管外徑 Outside Diameter		厚度 Wall Thick-ness	單位重量 Unit Mass		級別 Class	鋼管外徑 Outside Diameter		厚度 Wall Thick-ness	單位重量 Unit Mass	
			最大 Max.	最小 min.		無螺紋 Plain end	有螺紋 Screwed ❶		最大 Max.	最小 min.		無螺紋 Plain end	有螺紋 Screwed ❶
in	mm		mm	mm	mm	kg/m	kg/m		mm	mm	mm	kg/m	kg/m
½	15	Light	21.4	21.0	2.0	0.947	0.956	Medium	21.7	21.1	2.60	1.21	1.22
								Heavy			3.20	1.44	1.45
¾	20	Light	26.9	26.4	2.30	1.38	1.39	Medium	27.2	26.6	2.60	1.56	1.57
								Heavy			3.20	1.87	1.88
1	25	Light	33.8	33.2	2.60	1.98	2.00	Medium	34.2	33.4	3.20	2.41	2.43
								Heavy			4.00	2.94	2.96
1¼	32	Light	42.5	41.9	2.60	2.54	2.57	Medium	42.9	42.1	3.20	3.10	3.13
								Heavy			4.00	3.80	3.83
1½	40	Light	48.4	47.8	2.90	3.23	3.27	Medium	48.8	48.0	3.20	3.57	3.61
								Heavy			4.00	4.38	4.42
2	50	Light	60.2	59.6	2.90	4.08	4.15	Medium	60.8	59.8	3.60	5.03	5.10
								Heavy			4.50	6.19	6.26
2½	65	Light	76.0	75.2	3.20	5.71	5.83	Medium	76.6	75.4	3.60	6.43	6.55
								Heavy			4.50	7.93	8.05
3	80	Light	88.7	87.9	3.20	6.72	6.89	Medium	89.5	88.1	4.00	8.37	8.54
								Heavy			5.00	10.3	10.5
4	100	Light	113.9	113.0	3.60	9.75	10.0	Medium	114.9	113.3	4.50	12.2	12.5
								Heavy			5.40	14.5	14.8
5	125	-						Medium	140.6	138.7	5.00	16.6	17.1
								Heavy			5.40	17.9	18.4
6	150	-						Medium	166.1	164.1	5.00	19.7	20.3
								Heavy			5.40	21.3	21.9
8	200	-						Medium	218.5	214.1	6.0	31.1	-
								Heavy			6.4	33.1	-
厚度公差 Thickness Tolerances		輕　級：+不限制，-8% 中級及重級：+不限制，-10%			Light Class：+not specified, -8% Medium & Heavy Class：+not specified, -10%								
備註 Note		❶ 此單位重量為包括接頭之單位重量。			❶ The unit Mass Includes that of Coupling.								

配管用鋼管

STEEL PIPES FOR ORDINARY PIPING

配管用管－鑫陽規格BSA, BSB級黑鋼管、後熱浸鍍鋅銲接鋼管及預熱浸鍍鋅銲接鋼管
Shin Yang Standard (SYS) for BSA, BSB Class, Black Post-Hot-Dip Zinc-Coated Steel Pipes and Pre-Hot-Dip Galvanized Steel Pipes

標稱尺度 Nominal Size		級別 Class	鋼管外徑 Outside Diameter		厚度 Wall Thick-ness	單位重量 Unit Mass		級別 Class	鋼管外徑 Outside Diameter		厚度 Wall Thick-ness	單位重量 Unit Mass	
			最大 Max.	最小 min.		無螺紋 Plain end	有螺紋 Screwed ❶		最大 Max.	最小 min.		無螺紋 Plain end	有螺紋 Screwed ❶
in	mm		mm	mm	mm	kg/m	kg/m		mm	mm	mm	kg/m	kg/m
½	15	BSA	21.4	21.0	1.90	0.904	0.913	BSB	21.7	21.1	2.60	1.21	1.22
¾	20		26.9	26.4	2.10	1.27	1.29		27.2	26.6	2.90	1.72	1.74
1	25		33.8	33.2	2.45	1.88	1.90		34.2	33.4	3.25	2.45	2.48
1¼	32		42.5	41.9	2.45	2.40	2.43		42.9	42.1	3.60	3.45	3.50
1½	40		48.4	47.8	2.60	2.92	2.96		48.8	48.0	4.10	4.48	4.53
2	50		60.2	59.6	2.60	3.68	3.74		60.8	59.8	4.10	5.68	5.78
2½	65		76.0	75.2	3.00	5.37	5.48		76.6	75.4	4.50	7.93	8.05
3	80		88.7	87.9	3.00	6.31	6.39		89.5	88.1	4.50	9.36	9.55
4	100		113.9	113.0	3.25	8.83	9.06		114.9	113.3	4.50	12.20	12.50
5	125		140.1	138.9	3.60	12.07	12.41		140.6	138.7	4.50	15.00	15.42
6	150		165.5	164.4	3.60	14.33	14.76		166.1	164.1	4.50	17.82	18.36
8	200		217.0	215.3	4.50	23.49	-		218.5	214.1	6.00	31.12	-
厚度公差 Thickness Tolerances			+不限制， - 5%			+not specified, -5%							
備註 Note			❶ 此單位重量為包括接頭之單位重量。			❶ The Unit Mass Includes that of Coupling.							

結構用鋼管

STRUCTURAL STEEL PIPES

結構用管－CNS 4435/JIS G 3444一般結構用碳鋼鋼管
CNS 4435 G3102 Carbon Steel Pipes for General Structures.
JIS G 3444 Carbon Steel Tubes for General Structural Purposes.

厚度 Outside Diameter	厚度 Wall Thickness	單位重量 Unit Mass	厚度 Outside Diameter	厚度 Wall Thickness	單位重量 Unit Mass
mm	mm	kg/m	mm	mm	kg/m
21.7	2.0	0.972	139.8	3.6	12.1
27.2	2.0	1.24		4.0	13.4
	2.3	1.41		4.5	15.0
34.0	2.3	1.80		6.0	19.8
42.7	2.3	2.29	165.2	4.5	17.8
	2.5	2.48		5.0	19.8
48.6	2.3	2.63		6.0	23.6
	2.5	2.84	190.7	4.5	20.7
	2.8	3.16		5.0	22.9
	3.2	3.58		6.0	27.3
60.5	2.3	3.30	216.3	4.5	23.5
	3.2	4.52		6.0	31.1
	4.0	5.57	267.4	6.0	38.7
76.3	2.8	5.08		6.6	42.4
	3.2	5.77		7.0	45.0
	4.0	7.13		8.0	51.2
89.1	2.8	5.96		9.0	57.3
	3.2	6.78		9.3	59.2
114.3	3.2	8.77	318.5	6.0	46.2
	3.5	9.58		6.9	53.0
	4.5	12.2		8.0	61.3
				9.0	68.7
				10.3	78.3
外徑許可差 Tolerances of Outside Diameter	外徑未滿 50mm：±0.5mm； 外徑 50mm 以上：±1%		OD under 50mm：±0.5mm； OD 50mm and above：±1%		
厚度公差 Thickness Tolerances	外徑未滿 50mm：±0.5mm； 外徑 50mm 以上：±1%		OD under 50mm：±0.5mm； OD 50mm and above：±1%		

結構用管－CNS 4437/JIS G 3445機械結構用碳鋼鋼管
CNS 4437 G3103 Carbon Steel Pipes for Machine Structures.
JIS G 3445 Carbon Steel Tubes for Machine Structural Purposes.

外徑 Outside Diameter		標稱厚度 Nominal Wall Thickness							
in	mm	1.10	1.20	1.30	1.40	1.50	1.60	1.80	2.00
⅝	15.88								
¾	19.10								
1	25.40								
1¼	31.80								
1⅜	35.00								
1½	38.10								
	45.00								
2	50.80								
2½	63.50								
外徑許可差 Tolerances of Outside Diameter		外徑未滿50mm：±0.5mm； 外徑50mm 以上：±1%				OD under 50mm：±0.5mm； OD 50mm and above：±1%			
厚度公差 Thickness Tolerances		厚度未滿4mm：+0.6mm, -0.5mm； 厚度4mm 以上：+15%, -12.5%				Thickness under 4mm：+0.6mm, -0.5mm； Thickness 4mm and above：+15%, -12.5%			
備考 Remarks		本公司所能供應之種類為 STKM11A 及 STKM13A				We offer STKM11A and STKM13A tubes for above specifications.			

結構用鋼管

STRUCTURAL STEEL PIPES

矩形管－CNS 7141/JIS G 3466/SYS一般結構用矩形鋼管
CNS 7141 G3134 Crabon Steel Rectangular Pipes for General Structures.
JIS G 3466 Crabon Steel Square Pipes for General Structural Purposes.
Shin Yang Standard (SYS) for Carbon Steel Rectangular Pipes.

方形管 Square Pipe

邊長(mm) Side Length	厚度 Wall Thickness (mm)																			
	1.1	1.26	1.38	1.5	1.6	1.7	1.80	1.85	1.90	1.95	2.0	2.3	2.43	2.95	3.2	4.0	4.5	5.0	5.65	6.0
16×16	■	■	■																	
19×19	■	■	■																	
20×20	■	■	■	■	■	■	■	■	■	■	■									
25×25	■	■	■	■	■	■	■	■	■	■	■	■	■							
30×30	■	■	■	■	■	■	■	■	■	■	■	■	■							
38×38	■	■	■	■	■	■	■	■	■	■	■	■	■							
40×40	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
50×50		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
60×60			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
65×65				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
75×75						■	■	■	■	■	■	■	■	■	■	■	■	■	■	
89×89							■	■	■	■	■	■	■	■	■	■	■	■	■	
100×100								■	■	■	■	■	■	■	■	■	■	■	■	■
125×125														■	■	■	■	■	■	■
150×150														■	■	■	■	■	■	■

厚度公差 Thickness Tolerances	厚度未滿3mm：±0.3mm； 厚度3mm以上：±10%	Thickness under 3mm：±0.3mm； Thickness 3mm and above：±10%
外徑公差 Dimension Tolerances	邊長100mm以下：±1.5mm； 邊長超過100mm：±1.5%	flat 100mm and under：±1.5mm； flat over 100mm：±1.5%
備考 Remarks	■ 依據CNS 7141 G3134， JIS G 3466規範供應	■ Supplied according to CNS 7141 G3134, JIS G 3466 Specifications.

矩形管 Rectangular Pipe

邊長(mm) Side Length	厚度 Wall Thickness (mm)																			
	1.1	1.26	1.38	1.5	1.6	1.7	1.80	1.85	1.90	1.95	2.0	2.3	2.43	2.95	3.2	4.0	4.5	5.0	5.65	6.0
30×15	■	■	■																	
30×20	■	■	■																	
38×25	■	■	■	■	■	■	■	■	■	■	■	■	■							
40×20	■	■	■	■	■	■	■	■	■	■	■	■	■							
50×20			■	■	■	■	■	■	■	■	■	■	■	■	■	■				
50×25	■	■	■	■	■	■	■	■	■	■	■	■	■							
60×30	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
80×40			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
100×50						■	■	■	■	■	■	■	■	■	■	■	■	■	■	
125×75											■	■	■	■	■	■	■	■	■	
150×100														■	■	■	■	■	■	■

厚度公差 Thickness Tolerances	厚度未滿3mm：±0.3mm； 厚度3mm以上：±10%	Thickness under 3mm：±0.3mm； Thickness 3mm and above：±10%
外徑公差 Dimension Tolerances	邊長100mm以下：±1.5mm； 邊長超過100mm：±1.5%	flat 100mm and under：±1.5mm； flat over 100mm：±1.5%
備考 Remarks	■ 依據CNS 7141 G3134， JIS G 3466規範供應	■ Supplied according to CNS 7141 G3134, JIS G 3466 Specifications.

電線用鋼管

RIGID STEEL CONDUIT

電線用管－CNS 2606
CNS 2606 C4060 Galvanized steel conduits for electrical wires and cables

厚鋼電線管 Thick Rigid Steel Conduit Tubes				薄鋼電線管 Thin Rigid Steel Conduit Tubes				無螺紋電線管 Threadless Rigid Steel Conduit Tubes			
管之稱呼 Design-ation	外徑 OD	厚度 Thickness	重量 Mass [1]	管之稱呼 Design-ation	外徑 OD	厚度 Thickness	重量 Mass	管之稱呼 Design-ation	外徑 OD	厚度 Thickness	重量 Mass
	mm	mm	kg/m		mm	mm	kg/m		mm	mm	kg/m
G16	21.0	2.3	1.06	C19	19.1	1.6	0.690	E19	19.1	1.2	0.530
G22	26.5	2.3	1.37	C25	25.4	1.6	0.939	E25	25.4	1.2	0.716
G28	33.3	2.5	1.90	C31	31.8	1.6	1.19	E31	31.8	1.4	1.05
G36	41.9	2.5	2.43	C39	38.1	1.6	1.44	E39	38.1	1.4	1.27
G42	47.8	2.5	2.79	C51	50.8	1.6	1.94	E51	50.8	1.4	1.71
G54	59.6	2.8	3.92	C63	63.5	2.0	3.03	E63	63.5	1.6	2.44
G70	75.2	2.8	5.00	C75	76.2	2.0	3.66	E75	76.2	1.8	3.30
G82	87.9	2.8	5.88	-				-			
G104	113.4	3.5	9.48								
外徑許可差(Tolerances on OD) G82以下(G82 and under)：±0.3mm G104以上(G92 and above)：±0.4mm				外徑許可差(Tolerances on OD) C51以下(C51 and under)：±0.2mm C63以上(C63 and above)：±0.35mm				外徑許可差(Tolerances on OD) E51以下(E51 and under)：±0.15mm E63以上(E63 and above)：±0.25mm			
厚度公差 Thickness Tolerances				+無規定， -7%				+not specified, -7%			
備註 Note				[1] 此重量為不包含螺紋部份的重量。				[1] The mass doesn't include that of threaded part.			

電線用鋼管

RIGID STEEL CONDUIT

電線用管－ANSI C80.1 電線用鋼管(鍍鋅)
ANSI C80.1 Rigid Steel Conduit-Zinc Coated.

標稱管徑 Nominal Diameter	標稱內徑 Nominal Inside Diameter	外徑 Outside Diameter	標稱壁厚 Nominal Wall Thickness	包括接頭每十支之最小重量 Min. Weight of Ten Unit Lengths with Couplings Attached
in	mm	mm	mm	kg
½	16.1	21.3	2.64	35.83
¾	21.2	26.7	2.72	47.63
1	27.0	33.4	3.20	69.40
1¼	35.4	42.2	3.38	91.17
1½	41.2	48.3	3.51	112.95
2	52.9	60.3	3.71	150.60
2½	63.2	73.0	4.90	239.05
3	78.5	88.9	5.21	309.63
4	102.9	114.3	5.72	441.04
5❶	128.9	141.3	6.22	595.85
6	154.8	168.3	6.76	791.67
厚度公差 Thickness Tolerances	+無限制，-12.5%		+not specified, -12.5%	
備註 Note	❶ 5”（含）以上尺寸無絞牙。		❶ The pipe for OD 5” and above won’t be threaded.	

配管用鋼管

STEEL PIPES FOR ORDINARY PIPING

配管用管－AS 1074 配管用鋼管
AS 1074 Steel Tubes and Tubulars for Ordinary Service

標稱尺度 Nominal Size		級別 Class	鋼管外徑 Outside Diameter		厚度 Wall Thick-ness	單位重量 Unit Mass		級別 Class	鋼管外徑 Outside Diameter		厚度 Wall Thick-ness	單位重量 Unit Mass	
			最大 Max.	最小 min.		無螺紋 Plain end	有螺紋❶ Screwed		最大 Max.	最小 min.		無螺紋 Plain end	有螺紋❶ Screwed
NPS	DN		mm	mm	mm	kg/m	kg/m		mm	mm	mm	kg/m	kg/m
½	15	Light	21.4	21.0	2.00	0.947	0.956	Medium	21.7	21.1	2.60	1.21	1.22
								Heavy			3.20	1.44	1.45
¾	20	Light	26.9	26.4	2.30	1.38	1.39	Medium	27.2	26.6	2.60	1.56	1.57
								Heavy			3.20	1.87	1.88
1	25	Light	33.8	33.2	2.60	1.98	2.00	Medium	34.2	33.4	3.20	2.41	2.43
								Heavy			4.00	2.94	2.96
1¼	32	Light	42.5	41.9	2.60	2.54	2.57	Medium	42.9	42.1	3.20	3.10	3.13
								Heavy			4.00	3.80	3.83
1½	40	Light	48.4	47.8	2.90	3.23	3.27	Medium	48.8	48.0	3.20	3.57	3.61
								Heavy			4.00	4.38	4.42
2	50	Light	60.2	59.6	2.90	4.08	4.15	Medium	60.8	59.8	3.60	5.03	5.10
								Heavy			4.50	6.19	6.26
2½	65	Light	76.0	75.2	3.20	5.71	5.83	Medium	76.6	75.4	3.60	6.43	6.55
								Heavy			4.50	7.93	8.05
3	80	Light	88.7	87.9	3.20	6.72	6.89	Medium	89.5	88.1	4.00	8.37	8.54
								Heavy			5.00	10.3	10.5
4	100	Light	113.9	113.0	3.60	9.75	10.0	Medium	114.9	113.3	4.50	12.2	12.5
								Heavy			5.40	14.5	14.8
5	125							Medium	140.6	138.7	5.00	16.6	17.1
								Heavy			5.40	17.9	18.4
6	150							Medium	166.1	164.1	5.00	19.7	20.3
								Heavy			5.40	21.3	21.9
厚度公差 Thickness Tolerances		輕　　級：+不限制，-8 % 中級及重級：+不限制，-10 %						Light Class ：+unlimited, -8 % Medium & Heavy Class ：+unlimited, -10 %					
備註 Note		● 此單位重量為包括接頭之單位重量。						● The Unit Mass Includes that of coupling.					

結構用鋼管

STRUCTURAL STEEL PIPES

結構用管－AS/NZS 1163一般結構用碳鋼鋼管
AS/NZS 1163 Cold-Formed Structural Steel Hollow Section-Circular Hollow Sections

圓 管 CHR

外徑 Outside Diameter	厚度 Wall Thickness	單位重量 Unit Mass	外徑 Outside Diameter	厚度 Wall Thickness	單位重量 Unit Mass	外徑 Outside Diameter	厚度 Wall Thickness	單位重量 Unit Mass
mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m
21.3	2.0	0.96	48.3	2.3	2.61	114.3	3.2	8.77
	2.6	1.20		2.9	3.25		3.6	9.83
	3.2	1.43		3.2	3.56		4.5	12.2
	3.6	1.57		4.0	4.37		4.8	13.0
26.9	2.0	1.22		5.4	5.71		5.4	14.5
	2.3	1.50	60.3	2.3	3.29		6.0	16.0
	2.6	1.56		2.9	4.11	139.7	3.0	10.1
	3.2	1.87		3.6	5.03		3.5	11.8
	4.0	2.26		4.5	6.19		5.0	16.6
33.7	2.0	1.56		5.4	7.31		5.4	17.9
	2.6	2.00	76.1	2.3	4.19	165.1	3.0	12.0
	3.2	2.41		3.2	5.75		3.5	13.9
	4.0	2.93		3.6	6.44		5.0	19.7
	4.5	3.24		4.5	7.95		5.4	21.3
42.4	2.0	1.99		5.9	10.2	168.3	4.8	19.4
	2.6	2.56	88.9	2.6	5.53		6.4	25.6
	3.2	3.09		3.2	6.76		7.1	28.2
	4.0	3.79		4.0	8.38	219.1	4.8	25.4
	4.9	4.53		4.8	9.96		6.4	33.6
				5.0	10.3			
				5.5	11.3			
				5.9	12.1			

外徑許可差 Tolerances of Outside Diameter	±1%，但不可小於 ±0.5mm	±1%, with a minimun of ±0.5mm and a maximum of ±10mm	
厚度公差 Thickness Tolerances	±10%	重量公差 Mass(m) per unit length	- 4%

*Remark：The maximum wall thickness of pre-hot-dip zinc coated CHR is on 5.0mm.

結構用管－AS/NZS 1163一般結構用矩形鋼管
AS/NZS 1163 Cold-Formed Structural Steel Hollow Section-Square Hollow Section

方形管 SHS

邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass
mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m
16x16	1.2	0.53	40x40	1.6	1.88	60x60	1.6	2.88	89x89	2.0	5.38
	1.6	0.67		2.0	2.31		2.0	3.56		2.5	6.66
19x19	1.2	0.64		2.5	2.82		2.5	4.39		3.0	7.92
	1.6	0.82		3.0	3.30		3.0	5.19		3.5	9.06
20x20	1.2	0.68		3.5	3.68		3.5	5.88		4.0	10.25
	1.6	0.87		4.0	4.09		4.0	6.60		5.0	12.50
	2.0	1.05		4.5	4.47		4.5	7.30		6.0	14.60
25x25	1.2	0.87		5.0	4.82		5.0	7.96	100x100	2.0	6.07
	1.6	1.12	50x50	1.6	2.38	65x65	1.6	3.13		2.5	7.53
	2.0	1.36		2.0	2.93		2.0	3.88		3.0	8.96
	2.5	1.64		2.5	3.60		2.5	4.78		3.5	10.28
30x30	1.6	1.38		3.0	4.25		3.0	5.66		4.0	11.60
	2.0	1.68		3.5	4.78		3.5	6.43		5.0	14.20
	2.5	2.03		4.0	5.35		4.0	7.23		6.0	16.70
35x35	1.6	1.63		4.5	5.89		4.5	8.00	125x125	3.0	11.31
	2.0	1.99		5.0	6.39		5.0	8.75		3.5	13.02
	2.5	2.42				75x75	2.0	4.50		4.0	14.80
	3.0	2.83					2.5	5.56		5.0	18.20
	3.5	3.13					3.0	6.60		6.0	21.40
	4.0	3.46					3.5	7.53	150x150	3.0	13.67
							4.0	8.49		3.5	15.77
							4.5	9.42		4.0	17.91
							5.0	10.30		5.0	22.10
										6.0	26.20

外徑許可差 Tolerances of Outside Diameter	±1%，但不可小於 ±0.5mm	±1%, with a minimun of ±0.5mm	
厚度公差 Thickness Tolerances	±10%	重量公差 Mass(m) per unit length	- 4%

*Remark：The maximum wall thickness of pre-hot-dip zinc coated SHS is on 5.0mm.

結構用管－AS/NZS 1163一般結構用矩形鋼管
AS/NZS 1163 Cold-Formed Structural Steel Hollow Section-Rectangular Hollow Section

矩形管 RHS

邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass
mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m
38x25	1.2	1.11	70x50	1.6	2.88	76x38	1.6	2.73	125x75	2.5	7.53
	1.6	1.45		2.0	3.56		2.0	3.37		3.0	8.96
	2.0	1.77		2.5	4.39		2.5	4.15		3.5	10.28
	2.5	2.15		3.0	5.19	80x40	1.6	2.88		4.5	11.60
50x25	1.2	1.34		3.5	5.88		2.0	3.56		5.0	14.20
	1.6	1.75		4.0	6.60		2.5	4.39		6.0	17.00
	2.0	2.15		4.5	7.30		3.0	5.19	150x50	2.0	6.07
	2.5	2.62		5.0	7.96		3.5	5.88		2.5	7.53
60x30	1.2	1.62	75x25	1.6	2.38		4.0	6.60		3.0	8.96
	1.6	2.13		2.0	2.93		4.5	7.30		5.0	14.41
	2.0	2.62		2.5	3.60		5.0	7.96	150x100	3.0	11.31
65x35	1.6	2.38		3.0	4.25	100x50	1.6	3.64		3.5	13.02
	2.0	2.93		3.5	4.78		2.0	4.50		4.5	14.80
	2.5	3.60		4.0	5.35		2.5	5.56		5.0	18.20
	3.0	4.25	75x50	1.6	3.00		3.0	6.60		6.0	21.4
	3.5	4.78		2.0	3.72		3.5	7.53			
	4.0	5.35		2.5	4.58		4.0	8.49			
				3.0	5.42		5.0	10.30			
				3.5	6.16						
				4.0	6.92						
				4.5	7.65						
				5.0	8.36						

外徑許可差 Tolerances of Outside Diameter	±1%，但不可小於 ±0.5mm	±1%, with a minimun of ±0.5mm	
厚度公差 Thickness Tolerances	±10%	重量公差 Mass(m) per unit length	- 4%

*Remark：The maximum wall thickness of pre-hot-dip zinc coated RHS is on 5.0mm.

結構用管－SYS 1450 C350預熱浸鍍鋅橢圓結構鋼管
SYS 1450 Grade C350, Pre-Hot-Dip Zinc-Coated , Steel Cattle Rail (Oval Rails) for Structural Purposes.

橢圓管 Cattle Rail Pipes (Oval Rails)

邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass	邊長 Side Length	厚度 Thickness	單位重量 Unit Mass
mm	mm	kg/m	mm	mm	kg/m	mm	mm	kg/m
59x29	1.6	1.85	97x42	1.6	2.98	120x48	1.6	3.64
	2.0	2.29		2.0	3.70		2.0	4.53
	2.5	2.83		2.5	4.59		2.5	5.63
	3.0	3.36		3.0	5.48		3.0	6.72
79x39	1.6	2.48	115x42	1.6	3.43			
	2.0	3.08		2.0	4.27			
	2.5	3.82		2.5	5.30			
	3.0	4.55		3.0	6.32			

邊長許可差 Tolerances of side length	邊長50mm或以下：±0.5mm 邊長大於50mm：±1%	Side length 50mm and under：±0.5mm Side length over 50mm：±1%	
厚度公差 Thickness Tolerances	±10%	重量公差 Weight Tolerances	-10%
備註 Remark	預熱浸鍍鋅鋼管厚度可至5.0mm	The maximun wall thickness of pre-hot-dip zinc coated Cattle Rail is on 5.0mm	

配管用鋼管

STEEL PIPES FOR ORDINARY PIPING

配管用管－ASTM A53 銲接鋼管
ASTM A53 Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded

標稱管徑 Nominal Diameter		鋼管外徑 Outside Diameter		標稱厚度 Nominal Wall Thickness		標稱重量(無螺紋) Nominal Mass (Plain End)		標稱厚度號數 Schedule No.	重量等級 Weight Class
NPS	DN	in	mm	in	mm	lb/ft	kg/m		
½	15	0.840	21.3	0.083 0.109 0.147	2.11 2.77 3.73	0.67 0.85 1.09	1.00 1.27 1.62	10 40 80	- STD XS
¾	20	1.050	26.7	0.083 0.113 0.154	2.11 2.87 3.91	0.86 1.13 1.48	1.28 1.69 2.20	10 40 80	- STD XS
1	25	1.315	33.4	0.109 0.133 0.179	2.77 3.38 4.55	1.40 1.68 2.17	2.09 2.50 3.24	10 40 80	- STD XS
1¼	32	1.660	42.2	0.109 0.140 0.191	2.77 3.56 4.85	1.81 2.27 3.00	2.70 3.39 4.47	10 40 80	- STD XS
1½	40	1.900	48.3	0.109 0.145 0.200	2.77 3.68 5.08	2.09 2.72 3.63	3.11 4.05 5.41	10 40 80	- STD XS
2	50	2.375	60.3	0.109 0.154 0.218	2.77 3.91 5.54	2.64 3.66 5.03	3.93 5.44 7.48	10 40 80	- STD XS
2½	65	2.875	73.0	0.120 0.203	3.05 5.16	3.53 5.80	5.26 8.63	10 40	- STD
3	80	3.500	88.9	0.120 0.216	3.05 5.49	4.33 7.58	6.45 11.29	10 40	- STD
4	100	4.500	114.3	0.120 0.237 0.250 0.281 0.312 0.337	3.05 6.02 6.35 7.14 7.92 8.56	5.61 10.80 11.36 12.67 13.97 15.00	8.36 16.07 16.90 18.87 20.76 22.32	10 40 - - - 80	- STD - - - XS
5	125	5.563	141.3	0.134 0.258 0.281 0.312 0.344 0.375	3.40 6.55 7.14 7.92 8.74 9.52	7.77 14.63 15.87 17.51 19.19 20.80	11.57 21.77 23.62 26.05 28.57 30.94	10 40 - - - 80	- STD - - - XS
6	150	6.625	168.3	0.134 0.280 0.312 0.344 0.375	3.40 7.11 7.92 8.74 9.52	9.29 18.99 21.06 23.10 25.05	13.84 28.26 31.32 34.39 37.28	10 40 - - -	- STD - - -
8	200	8.625	219.1	0.148 0.250 0.322 0.344 0.375 0.406	3.76 6.35 8.18 8.74 9.52 10.31	13.40 22.38 28.58 30.45 33.07 35.67	19.96 33.31 42.55 45.34 49.20 53.08	10 20 40 - - -	- - STD - - -
10	250	10.750	273.0	0.219 0.250 0.279 0.307 0.344 0.365 0.438 0.500	5.56 6.35 7.09 7.80 8.74 9.27 11.13 12.70	24.65 28.06 31.23 34.27 38.27 40.52 48.28 54.79	36.67 41.75 46.49 51.01 56.96 60.29 71.87 81.52	- 20 - 30 - 40 - 60	- - - - - STD - XS
12	300	12.750	323.8	0.250 0.281 0.312 0.330 0.344 0.375 0.406 0.438 0.500	6.35 7.14 7.92 8.38 8.74 9.52 10.31 11.13 12.70	33.41 37.46 41.48 43.81 45.62 49.61 53.57 57.65 65.48	49.71 55.75 61.69 65.18 67.90 73.78 79.70 85.82 97.43	20 - - 30 - - 40 - -	- - - - - STD - - XS
厚度公差 Thickness Tolerances		+不限制， -12.5%				+not specified, -12.5%			
備考 Remarks		❶ ASTM A53 區分為Grade A 與 Grade B 等2種產品等級。 ❷ Grade A的可生產尺寸為½"~12"；Grade B的可生產尺寸為½"~12"。				❶ ASTM A53 classifies pipes into Grade A and B. Shin Yang's range of product dimensions : ❷ Grade A:½"~12"；Grade B:½"~12".			

配管用管－EN10255 非合金銲接平口、絞牙鋼管
EN10255 non alloy steel tubes suitable for welding and threading.

標稱外徑 Specified Outside diameter D (mm)	絞牙尺寸 Thread Size R	外徑 Outside Diameter 最大 max. (mm)	外徑 Outside Diameter 最小 min. (mm)	中級 Medium series 厚度 Wall Thickness (mm)	中級 Medium series 單位重量 Mass per unit length of bare tube 無螺紋 Plain end (kg/m)	中級 Medium series 單位重量 Mass per unit length of bare tube 有螺紋及接頭 Threaded and Socketed ❶ (kg/m)	重級 Heavy series 厚度 Wall thickness (mm)	重級 Heavy series 單位重量 Mass per unit length of bare tube 無螺紋 Plain end (kg/m)	重級 Heavy series 單位重量 Mass per unit length of bare tube 有螺紋及接頭 Threaded and Socketed ❶ (kg/m)
21.3	½	21.8	21.0	2.6	1.21	1.22	3.2	1.44	1.45
26.9	¾	27.3	26.5	2.6	1.56	1.57	3.2	1.87	1.88
33.7	1	34.2	33.3	3.2	2.41	2.43	4.0	2.93	2.95
42.4	1¼	42.9	42.0	3.2	3.10	3.13	4.0	3.79	3.82
48.3	1½	48.8	47.9	3.2	3.56	3.60	4.0	4.37	4.41
60.3	2	60.8	59.7	3.6	5.03	5.10	4.5	6.19	6.26
76.1	2½	76.6	75.3	3.6	6.42	6.54	4.5	7.93	8.05
88.9	3	89.5	88.0	4.0	8.36	8.53	5.0	10.3	10.5
114.3	4	115.0	113.1	4.5	12.2	12.5	5.4	14.5	14.8
139.7	5	140.8	138.5	5.0	16.6	17.1	5.4	17.9	18.4
165.1	6	166.5	163.9	5.0	19.8	20.4	5.4	21.3	21.9
厚度公差 Thickness Tolerances		中級及重級： ±10%				Medium & Heavy Class ：±10%			
重量公差 Weight Tolerances		±7.5%							
備註 Note		❶ 此單位重量為包括接頭之單位重量。				❶ The Unit Mass Includes that of coupling.			

配管用鋼管

STEEL PIPES FOR ORDINARY PIPING

配管用管－EN10255 非合金鋼接平口、絞牙鋼管
EN10255 non alloy steel tubes suitable for welding and threading.

標稱外徑 Specified Outside diameter D (mm)	絞牙尺寸 Thread Size R	外徑 Outside Diameter		輕 級 Light series (Type L)		
		最大 max.	最小 min.	厚度 Wall thickness	單位重量 Mass per unit length of bare tube	
					無螺紋 Plain end	有螺紋及接頭[1] Threaded and Socketed
		mm	mm	mm	kg/m	kg/m
21.3	½	21.7	21.0	2.30	1.08	1.09
26.9	¾	27.1	26.4	2.30	1.40	1.41
33.7	1	34.0	33.2	2.90	2.20	2.22
42.4	1¼	42.7	41.9	2.90	2.82	3.85
48.3	1½	48.6	47.8	2.90	3.25	3.29
60.3	2	60.7	59.6	3.20	4.50	4.58
76.1	2½	76.0	75.2	3.20	5.57	5.78
88.9	3	88.7	87.9	3.20	6.76	6.93
114.3	4	113.9	113.0	3.60	9.83	10.10
139.7	5	140.8	138.5	4.50	15.0	15.50
165.1	6	166.5	163.9	4.50	17.8	18.40
厚度公差 Thickness Tolerances	輕級：±10% Light series (Type L) ：±10%					
重量公差 Weight Tolerances	±7.5%					
備註 Note	[1] 此單位重量為包括接頭之單位重量。 [1] The Unit Mass Includes that of coupling.					

配管用管－EN10255 非合金鋼接平口、絞牙鋼管
EN10255 non alloy steel tubes suitable for welding and threading.

標稱外徑 Specified Outside diameter D (mm)	絞牙尺寸 Thread Size R	外徑 Outside Diameter		輕 級 Light series (Type L1)		
		最大 max.	最小 min.	厚度 Wall thickness	單位重量 Mass per unit length of bare tube	
					無螺紋 Plain end	有螺紋及接頭[1] Threaded and Socketed
		mm	mm	mm	kg/m	kg/m
21.3	½	21.7	21.0	2.30	1.08	1.09
26.9	¾	27.1	26.4	2.30	1.39	1.40
33.7	1	34.0	33.2	2.90	2.20	2.22
42.4	1¼	42.7	41.9	2.90	2.82	2.85
48.3	1½	48.6	47.8	2.90	3.24	3.28
60.3	2	60.7	59.6	3.20	4.49	4.58
76.1	2½	76.0	75.2	3.20	5.73	5.78
88.9	3	89.41	87.9	3.60	7.55	6.93
114.3	4	114.9	113.0	4.00	10.80	10.10
厚度公差 Thickness Tolerances	輕級：+不限制，-8% Light series (Type L1) ：+not specified，- 8 %					
重量公差 Weight Tolerances	+10%，-8%					
備註 Note	[1] 此單位重量為包括接頭之單位重量。 [1] The Unit Mass Includes that of coupling.					

配管用鋼管

STEEL PIPES FOR ORDINARY PIPING

配管用管－EN10255 非合金銲接平口、絞牙鋼管
EN10255 non alloy steel tubes suitable for welding and threading.

標稱外徑 Specified Outside diameter D (mm)	絞牙尺寸 Thread Size R	外徑 Outside Diameter		輕級 Light series (Type L2)		
		最大 max.	最小 min.	厚度 Wall thickness	單位重量 Mass per unit length of bare tube	
					無螺紋 Plain end	有螺紋及接頭 Threaded and Socketed [1]
		mm	mm	mm	kg/m	kg/m
21.3	½	21.4	21.0	2.00	0.947	0.956
26.9	¾	26.9	26.4	2.30	1.38	1.39
33.7	1	33.8	33.2	2.60	1.98	2.00
42.4	1¼	42.5	41.9	2.60	2.54	2.75
48.3	1½	48.4	47.8	2.90	3.23	3.27
60.3	2	60.2	59.6	2.90	4.08	4.15
76.1	2½	76.0	75.2	3.20	5.71	5.83
88.9	3	88.7	87.9	3.20	6.72	6.93
114.3	4	113.9	113.0	3.60	9.75	10.10
厚度公差 Thickness Tolerances	輕級：+不限制，-8% Light series (Type L2) ：+not specified，- 8 %					
重量公差 Weight Tolerances	+10%，-8%					
備註 Note	[1] 此單位重量為包括接頭之單位重量。 [1] The Unit Mass Includes that of coupling.					

配管用管－EN10217壓力配管用銲接鋼管
EN10217 Welded steel tubes for pressure purposes

外徑 Outside Diameter D (mm)	厚度 Wall Thickness T (mm)																			
1	2	3	1.6	1.8	2.0	2.3	2.6	2.9	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	8.8	10.0	11.0	12.5
21.3			■	■	■	■	■	■	■												
26.9			■	■	■	■	■	■	■	■	■										
33.7			■	■	■	■	■	■	■	■	■	■									
42.4			■	■	■	■	■	■	■	■	■	■									
48.3			■	■	■	■	■	■	■	■	■	■									
60.3				■	■	■	■	■	■	■	■	■	■								
		73	■	■	■	■	■	■	■	■	■	■	■								
76.1			■	■	■	■	■	■	■	■	■	■	■								
88.9					■	■	■	■	■	■	■	■	■								
114.3						■	■	■	■	■	■	■	■	■	■	■	■	■			
139.7								■	■	■	■	■	■	■	■	■	■	■			
		141.3						■	■	■	■	■	■	■	■	■	■	■			
168.3								■	■	■	■	■	■	■	■	■	■	■	■		
219.1										■	■	■	■	■	■	■	■	■	■	■	■
		244.5												■	■	■	■	■	■	■	■
273														■	■	■	■	■	■	■	■
323.9																■	■	■	■	■	■
外徑公差 Tolerances of Outside Diameter	外徑D≦219.1:±1% 或 ±0.5mm取較高者 外徑D＞219.1:± 0.75 % 或 ±6mm取較低者		Outside Diameter:≦219.1:±1% or ±0.5mm whichever is the greater Outside Diameter:D＞219.1:± 0.75 % or ±6mm whichever is the smaller																	
厚度公差 Thickness Tolerances	厚度T≦5mm: ±10% 或 ±0.3mm取較高者 厚度5＜T≦40mm: ±8% 或 ±2mm取較低者		Wall thickness T≦5mm: ±10% or ±0.3mm whichever is the greater Wall thickness5＜T≦40mm: ±8% or ±2mm whichever is the smaller																	
備註 Note	正公差不包含銲縫區		The tolerances of outside diameter and thickness for the weld area won't be positive.																	

結構用鋼管
STRUCTURAL STEEL PIPES

結構用管－EN10219非合金和細晶粒冷成形銲接結構鋼管
EN10219 Cold formed welded structural hollow sections of non-alloy and fine grain steels.

標稱外徑 Specified outside Diameter	標稱厚度 Specified thickness	單位重量 Mass per unit length	標稱外徑 Specified outside Diameter	標稱厚度 Specified thickness	單位重量 Mass per unit length
mm	mm	kg/m	mm	mm	kg/m
33.7	2.0	1.56	139.7	3.0	10.10
	2.5	1.92		4.0	13.40
	3.0	2.27		5.0	16.60
42.4	2.0	1.99		6.0	19.80
	2.5	2.46		6.3	20.70
	3.0	2.91		8.0	26.00
	4.0	3.79	168.3	3.0	12.20
48.3	2.0	2.28		4.0	16.20
	2.5	2.82		5.0	20.10
	3.0	3.35		6.0	24.00
	4.0	4.37		6.3	25.20
60.3	2.0	2.88		8.0	31.60
	2.5	3.56	219.1	4.0	21.20
	3.0	4.24		5.0	26.40
	4.0	5.55		6.0	31.50
76.1	2.0	3.65		6.3	33.10
	2.5	4.54		8.0	41.60
	3.0	5.41		10.0	51.60
	4.0	7.11		12.0	61.30
	5.0	8.77		12.5	63.70
88.9	2.0	4.29	273.0	6.0	39.50
	2.5	5.33		6.3	41.40
	3.0	6.36		8.0	52.30
	4.0	8.38		10.0	64.90
	5.0	10.30		12.0	77.20
114.3	2.5	6.89		12.5	80.30
	3.0	8.23	323.9	8.0	62.30
	4.0	10.90		10.0	77.40
	5.0	13.50		12.0	92.30
	6.0	16.00		12.5	96.00
	6.3	16.80			
	8.0	21.00			

邊長許可差 Tolerances of Outside Diameter	±1% 最小±0.5mm，最大±0.5mm	±1% min ±0.5mm，max ±0.5mm
厚度公差 Thickness Tolerances	厚度T≦5mm：±10% 厚度T＞5mm：±0.5mm	thickness T≦5mm：±10% thickness T＞5mm：±0.5mm

消防撒水管
STEEL SPRINKLER PIPES

消防撒水管－ASTM A135 電阻銲接有縫鋼管
ASTM A135 Electric-Resistance-Welded Steel Pipe ❶

標稱管徑 Nominal Diameter	鋼管外徑 Outside Diameter				標稱厚度 Nominal Wall Thickness			
	標稱 Nominal		許可差 Toleranes		標稱 Nominal		許可差 Toleranes	
NPS	in	mm	in	mm	in	mm	in	mm
1¼	1.660	42.2	1.6772~1.6614	42.6~42.2	0.0831	2.11	0.0906~0.0756	2.30~1.92
1½	1.900	48.3	1.9173~1.9000	48.7~48.3	0.0949	2.41	0.1024~0.0874	2.60~2.22
2	2.375	60.3	2.3976~2.3740	60.9~60.3	0.0949	2.41	0.1024~0.0874	2.60~2.22
2½	2.875	73.0	2.9038~2.8750	73.7~73.0	0.0831	2.11	0.0906~0.0756	2.30~1.92
3	3.500	88.9	3.5354~3.5200	89.8~89.4	0.0902	2.29	0.0977~0.0827	2.48~2.10
4	4.500	114.3	4.5433~4.4920	115.4~114.1	0.1035	2.63	0.1110~0.0960	2.86~2.44

備註 Note	❶ 鑫陽可生產ASTM A135產品種類為Grade A。	❶ For ASTM A135, Shin Yang is able to produce Grade A.
備考 Remarks	上述產品皆已取得UL、CUL、FM消防撒水管認證。	The above-mentioned products have been approved by UL,CUL, and FM.

結構用鋼管

STRUCTURAL STEEL PIPES

結構用管－ASTM A500冷成形建築用圓形碳鋼結構管
ASTM A500 Cold-Formed Welded Carbon Steel Structural Tubing in Rounds

圓管 Rounds

標稱外徑 Outside Dimensions	標稱厚度 Thickness		單位重量 Unit Mass		標稱外徑 Outside Dimensions	單位重量 Unit Mass		單位重量 Unit Mass	
Size	in	mm	kg/m	lb/ft	Size	in	mm	kg/m	lb/ft
¾"	0.100"	2.54	1.51	1.02	2"	0.125"	3.18	4.48	3.01
1"	0.100"	2.54	1.93	1.30		0.188"	4.78	6.54	4.40
	0.125"	3.18	2.37	1.59	2-½"	0.125"	3.18	5.48	3.68
1-¼"	0.100"	2.54	2.48	1.67		0.188"	4.78	8.04	5.40
	0.125"	3.18	3.06	2.06		0.200"	5.08	8.51	5.72
	0.140"	3.56	3.39	2.28		0.203"	5.16	8.63	5.80
	0.188"	4.78	4.41	2.96	3"	0.188"	4.78	9.92	6.66
1-½"	0.125"	3.18	3.54	2.38		0.216"	5.49	11.29	7.59
	0.145"	3.68	4.05	2.72	6"	0.280"	7.11	28.26	18.99
	0.188"	4.78	5.13	3.45	8"	0.188"	4.78	25.26	16.98
	0.200"	5.08	5.41	3.64		0.250"	6.35	33.31	22.39
外徑許可差 Tolerances of Outside Diameter			1.9" 以下 ：±0.5% 2" 以上 ：±0.75%			OD 1.9" under ：±0.5% OD 2" over ：±0.75%			
厚度公差 Thickness Tolerances			±10%						

結構用管－ASTM A500冷成形建築用方矩形碳鋼結構管
ASTM A500 Cold-Formed Welded Carbon Steel Structural Tubing in Shapes

方矩形管 Shapes

標稱外徑 Outside Dimensions	標稱厚度 Thickness		單位重量 Unit Mass		標稱外徑 Outside Dimensions	單位重量 Unit Mass		單位重量 Unit Mass	
Size	in	mm	kg/m	lb/ft	Size	in	mm	kg/m	lb/ft
1"x1"	0.065"	1.65	1.18	0.79	4"X2"	0.100"	2.54	5.74	3.86
	0.100"	2.54	1.69	1.14		0.125"	3.18	7.09	4.76
1-1/2"X1-1/2"	0.065"	1.65	1.83	1.23		0.150"	3.81	8.37	5.62
	0.100"	2.54	2.71	1.82		0.188"	4.78	10.26	6.89
2"x1"	0.065"	1.65	1.83	1.23	4"X4"	0.100"	2.54	7.77	5.22
	0.100"	2.54	2.71	1.82		0.125"	3.18	9.62	6.47
2"X2"	0.065"	1.65	2.49	1.67		0.150"	3.81	11.41	7.66
	0.100"	2.54	3.72	2.50		0.188"	4.78	14.07	9.45
	0.125"	3.18	4.55	3.06		0.250"	6.35	18.18	12.21
	0.188"	4.78	6.45	4.33	5"X3"	0.100"	2.54	7.77	5.22
3"X1"	0.065"	1.65	2.49	1.67		0.125"	3.18	9.62	6.47
	0.100"	2.54	3.72	2.50		0.150"	3.81	11.41	7.66
	0.125"	3.18	4.55	3.06		0.188"	4.78	14.07	9.45
	0.150"	3.81	5.33	3.58		0.250"	6.35	18.18	12.21
3"X1.5"	0.065"	1.65	2.82	1.90	5"X5"	0.125"	3.18	12.16	8.17
	0.100"	2.54	4.23	2.84		0.150"	3.81	14.44	9.71
	0.125"	3.18	5.18	3.48		0.188"	4.78	17.88	12.02
	0.150"	3.81	6.09	4.09		0.250"	6.35	23.24	15.62
	0.188"	4.78	7.40	4.97	6"X2"	0.100"	2.54	7.77	5.22
3"X2"	0.065"	1.65	3.15	2.12		0.125"	3.18	9.62	6.47
	0.100"	2.54	4.73	3.18		0.150"	3.81	11.41	7.66
	0.125"	3.18	5.82	3.91		0.188"	4.78	14.07	9.45
	0.150"	3.81	6.85	4.60	6"X4"	0.125"	3.18	12.16	8.17
	0.188"	4.78	8.35	5.61		0.150"	3.81	14.44	9.71
3"X3"	0.065"	1.65	3.81	2.56		0.188"	4.78	17.88	12.02
	0.100"	2.54	5.74	3.86		0.250"	6.35	23.24	15.62
	0.125"	3.18	7.09	4.76	6"X6"	0.125"	3.18	14.70	9.87
	0.150"	3.81	8.37	5.62		0.150"	3.81	14.78	11.75
	0.188"	4.78	10.26	6.89		0.188"	4.78	21.69	14.58
3-1/2"X3-1/2"	0.100"	2.54	6.76	4.54		0.250"	6.35	28.31	19.02
	0.125"	3.18	8.35	5.61					
	0.150"	3.81	9.89	6.64					
	0.188"	4.78	12.16	8.17					
外徑許可差 Tolerances of Outside Diameter			邊長 2.5" 以下 ：±0.020" 邊長超過 2.5" 並在 3.5" 以下 ：±0.025" 邊長超過 3.5" 並在 5.5" 以下 ：±0.030" 邊長超過 5.5" ：±1%			OD 2.5" under ：±0.020" 2.5" < OD ≤ 3.5" ：±0.025" 3.5" < OD ≤ 5.5" ：±0.030" OD 5.5" over ：±1%			
厚度公差 Thickness Tolerances			±10%						

結構用管－CSA G40.20-13/ CSA G40.21-13一般輥輪或銲接成形結構用鋼管
CSA G40.20-13/ CSA G40.21-13 Gneral requirements for rolled or welded structural quality steel/Structural quality steel

方矩形管 CSA

標稱外徑 Outside Dimensions	標稱厚度 Thickness		單位重量 Unit Mass		標稱外徑 Outside Dimensions	單位重量 Unit Mass		單位重量 Unit Mass	
Size	in	mm	kg/m	lb/ft	Size	in	mm	kg/m	lb/ft
1" x1"	0.065"	1.65	1.18	0.79	3"x3"	0.065"	1.65	3.81	2.56
	0.100"	2.54	1.69	1.14		0.100"	2.54	5.74	3.86
1-½" x1-½"	0.065"	1.65	1.83	1.23		0.125"	3.18	7.09	4.76
	0.100"	2.54	2.71	1.82		0.150"	3.81	8.37	5.62
2" x1"	0.065"	1.65	1.83	1.23		0.188"	4.78	10.26	6.89
	0.100"	2.54	2.71	1.82	3-½"x3-½"	0.100"	2.54	6.76	4.54
2"x2"	0.065"	1.65	2.49	1.67		0.125"	3.18	8.35	5.61
	0.100"	2.54	3.72	2.50		0.188"	4.78	12.16	8.17
	0.125"	3.18	4.55	3.06	4"x2"	0.125"	3.18	7.09	4.76
	0.150"	3.81	5.33	3.58		0.188"	4.78	10.26	6.89
	0.188"	4.78	6.45	4.33	4"x4"	0.125"	3.18	9.62	6.47
3"x1"	0.065"	1.65	2.49	1.67		0.188"	4.78	14.07	9.45
	0.100"	2.54	3.72	2.50		0.250"	6.35	18.18	12.21
	0.125"	3.18	4.55	3.06	5"x3"	0.188"	4.78	14.07	9.45
	0.150"	3.81	5.33	3.58	5"x5"	0.125"	3.18	12.16	8.17
3"x1-1/2"	0.065"	1.65	2.82	1.90		0.188"	4.78	17.88	12.02
	0.100"	2.54	4.23	2.84		0.250"	6.35	23.24	15.62
	0.125"	3.18	5.18	3.48	6"x2"	0.100"	2.54	7.77	5.22
	0.150"	3.81	6.09	4.09		0.125"	3.18	9.62	6.47
	0.188"	4.78	7.40	4.97		0.150"	3.81	11.41	7.66
3"x2"	0.065"	1.65	3.15	2.12		0.188"	4.78	14.07	9.45
	0.100"	2.54	4.73	3.18	6"x4"	0.188"	4.78	17.88	12.02
	0.125"	3.18	5.82	3.91		0.250"	6.35	23.24	15.62
	0.150"	3.81	6.85	4.60	6"x6"	0.125"	3.18	14.70	9.87
	0.188"	4.78	8.35	5.61		0.188"	4.78	21.69	14.58
						0.250"	6.35	28.31	19.02
外徑許可差 Tolerances of Outside Diameter			邊長 2.5" 以下 ：±0.020" 邊長超過 2.5" 並在 3.5" 以下 ：±0.025" 邊長超過 3.5" 並在 5.5" 以下 ：±0.030" 邊長超過 5.5" ：±1%			OD 2.5" under ：±0.020" 2.5" < OD ≤ 3.5" ：±0.025" 3.5" < OD ≤ 5.5" ：±0.030" OD 5.5" over ：±1%			
厚度公差 Thickness Tolerances			+10%, -5%						

API套管及線管

API CASING AND LINE PIPES

API線管－API Spec 5L管線有縫鋼管(PSL 1 & 2)；
API Spec 5L Specifications Line Pipe

規格 Size						重量 Weight			水壓試驗壓力 Hydrostatic Test Pressure(psi)							
外徑 Outside Diameter			厚度 Wall Thickness			lb/ft	kg/ft	kg/m	A	B	X42	X46	X52	X56	X60	X65
Nominal Size	in	mm	Sch.No.	in	mm											
4	4½	114.30		0.125	3.2	5.89	2.67	8.77	1020	1180	1400	1550	1740	1890	2010	2180
				0.141	3.6	6.61	3.00	9.83	1150	1340	1580	1750	1960	2130	2260	2450
				0.156	4.0	7.32	3.32	10.88	1270	1480	1750	1930	2170	2350	2500	2720
				0.172	4.4	8.00	3.63	11.92	1400	1630	1930	2130	2390	2590	2760	2990
				0.188	4.8	8.71	3.95	12.96	1530	1780	2110	2330	2620	2840	3020	3270
				0.203	5.2	9.39	4.26	13.99	1650	1920	2280	2510	2830	3060	3260	3530
				0.219	5.6	10.10	4.58	15.01	1780	2080	2460	2710	3050	3300	3520	3810
			40(Std)	0.237	6.0	10.76	4.88	16.02	1920	2250	2660	2930	3300	3570	3800	4120
				0.250	6.4	11.44	5.19	17.03	2030	2370	2800	3090	3480	3770	4010	4350
				0.281	7.1	12.61	5.72	18.77	2280	2660	3150	3480	3910	4240	4510	4890
				0.312	7.9	13.93	6.32	20.73	2530	2960	3500	3860	4340	4710	5010	5430
			80(XS)	0.337	8.6	15.06	6.83	22.42	2740	3190	3780	4170	4690	5080	5410	5870
5	5⅝	141.30		0.125	3.2	7.32	3.32	10.90	820	960	1130	1250	1410	1530	1620	1760
				0.156	4.0	9.11	4.13	13.54	1020	1200	1420	1560	1760	1900	2030	2200
				0.188	4.8	10.87	4.93	16.16	1240	1440	1710	1880	2120	2290	2440	2650
				0.219	5.6	12.59	5.71	18.74	1440	1680	1990	2190	2470	2670	2840	3080
			40(Std)	0.258	6.6	14.73	6.68	21.92	1700	1980	2340	2580	2910	3150	3350	3630
				0.281	7.1	15.79	7.16	23.50	1850	2150	2550	2810	3160	3430	3650	3960
				0.312	7.9	17.46	7.92	25.99	2050	2390	2830	3120	3510	3810	4050	4390
				0.344	8.7	19.11	8.67	28.45	2260	2640	3120	3440	3870	4200	4470	4840
			80(XS)	0.375	9.5	20.75	9.41	30.88	2460	2870	3400	3750	4220	4580	4870	5280
6	6⅝	168.30		0.125	3.2	8.75	3.97	13.03	690	800	1190	1310	1480	1600	1700	1850
				0.141	3.6	9.83	4.46	14.62	780	910	1340	1480	1670	1810	1920	2080
				0.156	4.0	10.89	4.94	16.21	860	1000	1490	1640	1840	2000	2130	2300
				0.172	4.4	11.95	5.42	17.78	950	1110	1640	1810	2030	2200	2340	2540
				0.188	4.8	13.01	5.90	19.35	1040	1210	1790	1980	2220	2410	2560	2780
				0.203	5.2	14.04	6.37	20.91	1120	1310	1930	2130	2400	2600	2770	3000
				0.219	5.6	15.1	6.85	22.47	1210	1410	2090	2300	2590	2800	2980	3240
				0.250	6.4	17.17	7.79	25.55	1380	1610	2380	2630	2960	3200	3410	3690
			40(Std)	0.280	7.1	18.96	8.60	28.22	1540	1800	2670	2940	3310	3590	3820	4140
				0.312	7.9	21.01	9.53	31.25	1720	2010	2970	3280	3690	4000	4250	4610
				0.344	8.7	23.02	10.44	34.24	1900	2210	3280	3610	4070	4400	4690	5080
				0.375	9.5	25.00	11.34	37.20	2070	2410	3570	3940	4430	4800	5110	5540

規格 Size						重量 Weight			水壓試驗壓力 Hydrostatic Test Pressure(psi)							
外徑 Outside Diameter			厚度 Wall Thickness			lb/ft	kg/ft	kg/m	A	B	X42	X46	X52	X56	X60	X65
Nominal Size	in	mm	Sch.No.	in	mm											
8	8⅝	219.10		0.156	4.0	14.26	6.47	21.22	660	770	1140	1260	1420	1530	1630	1770
				0.188	4.8	17.04	7.73	25.37	800	930	1380	1520	1710	1850	1970	2130
				0.203	5.2	18.43	8.36	27.43	860	1000	1480	1640	1840	2000	2120	2300
				0.219	5.6	19.82	8.99	29.48	930	1080	1600	1770	1990	2150	2290	2490
			20	0.250	6.4	22.55	10.23	33.57	1060	1240	1830	2020	2270	2460	2620	2840
			30	0.277	7.0	24.6	11.16	36.61	1170	1370	2030	2240	2520	2720	2900	3140
				0.312	7.9	27.65	12.54	41.14	1320	1540	2280	2520	2830	3070	3270	3540
			40(Std)	0.322	8.2	28.66	13.00	42.65	1360	1590	2360	2600	2920	3170	3370	3650
				0.344	8.7	30.34	13.76	45.14	1460	1700	2520	2780	3120	3380	3600	3900
				0.375	9.5	33.00	14.97	49.10	1590	1850	2740	3030	3400	3690	3930	4260
				0.438	11.1	38.27	17.36	56.94	1860	2170	3200	3530	3980	4310	4580	4970
			80(XS)	0.500	12.7	43.43	19.70	64.64	2120	2470	3660	4040	4540	4920	5230	5670
10	10¾	273.10		0.219	5.6	24.82	11.26	36.94	740	870	1460	1610	1810	1960	2080	2260
			20	0.250	6.4	28.29	12.83	42.09	850	990	1660	1830	2060	2240	2380	2580
				0.279	7.1	31.28	14.19	46.57	950	1110	1860	2050	2300	2500	2660	2880
			30	0.307	7.8	34.28	15.55	51.03	1040	1220	2040	2250	2530	2750	2920	3170
				0.344	8.7	38.12	17.29	56.72	1170	1360	2290	2520	2840	3080	3270	3550
			40(Std)	0.365	9.3	40.65	18.44	60.50	1240	1450	2430	2680	3010	3260	3470	3770
				0.438	11.1	48.19	21.86	71.72	1490	1740	2910	3210	3620	3920	4170	4520
			60	0.500	12.7	54.81	24.86	81.55	1700	1980	3330	3670	4130	4470	4760	5160
12	12¾	323.90	20	0.250	6.4	33.66	15.27	50.11	720	840	1400	1550	1740	1890	2010	2180
				0.281	7.1	37.28	16.91	55.47	810	940	1580	1740	1960	2120	2250	2440
				0.312	7.9	41.36	18.76	61.56	890	1040	1750	1930	2170	2350	2500	2710
			30	0.330	8.4	43.92	19.92	65.35	950	1100	1850	2040	2300	2490	2650	2870
				0.344	8.7	45.44	20.61	67.62	990	1150	1930	2130	2390	2590	2760	2990
			Std	0.375	9.5	49.49	22.45	73.65	1070	1250	2100	2320	2610	2830	3010	3260
			40	0.406	10.3	53.53	24.28	79.65	1160	1360	2280	2510	2830	3060	3260	3530
				0.438	11.1	57.54	26.10	85.62	1260	1460	2460	2710	3050	3300	3510	3810

厚度公差 Thickness Tolerances	+ 不限制， -12.5%	+not specified, -12.5%	重量公差 Weight Tolerances	+10%, -3.5%
備註 Note	鑫陽可生產 API Spec 5L PSL 1 & 2，產品種類為 Grade A25 (Class Ⅰ、Ⅱ)、B、X42、X46、X52、X65。		For API Spec 5L PSL 1 & 2, Shin Yang is able to produce Grade A25 (Class Ⅰ、Ⅱ)、B、X42、X46、X52 and X65.	
備考 Remarks	上述產品皆已取得美國石油協會 API 授權使用 API Monogram.		The above-mentioned products have been authorized to use API Monogram.	

API套管及線管

API CASING AND LINE PIPES

API套管－API Spec 5CT 鑽探用有縫鋼管(Group 1)
API Spec 5CT Specifications for Casing and Tubing

規格 Size						重量 Weight			水壓試驗壓力 Hydrostatic Test Pressure(MPa)		水壓試驗壓力 Hydrostatic Test Pressure(psi)	
代號 Lables			外徑 Outside Diameter	厚度 Wall Thickness		lb/ft	kg/ft	kg/m	H40	J55	H40	J55
Nominal Size	1	2	mm	in	mm							
4	4½	9.59	114.30	0.205	5.21	9.41	4.27	14.02	20.0	27.5	2900	4000
		10.50	114.30	0.224	5.69	10.25	4.65	15.24	22.0	30.0	3200	4400
		11.60	114.30	0.250	6.35	11.35	5.15	16.91	24.5	33.5	3600	4900
		13.50	114.30	0.290	7.37	13.07	5.93	19.44	28.5	39.0	4100	5700
		15.10	114.30	0.337	8.56	14.99	6.80	22.32	33.0	45.5	4800	6600
5	5½	14.00	139.70	0.244	6.20	13.71	6.22	20.41	19.5	27.0	2800	3900
		15.50	139.70	0.275	6.98	15.34	6.96	22.85	22.0	30.5	3200	4400
		17.00	139.70	0.304	7.72	16.89	7.66	25.13	24.5	33.5	3500	4900
		20.00	139.70	0.361	9.17	19.84	9.00	29.52	29.0	40.0	4200	5800
		23.00	139.70	0.415	10.54	22.55	10.23	33.57	33.5	46.0	4800	6700
6	6⅝	20.00	168.28	0.288	7.32	19.53	8.86	29.06	19.0	26.5	2800	3800
		24.00	168.28	0.352	8.94	23.61	10.71	35.13	23.5	32.0	3400	4700
		28.00	168.28	0.417	10.59	27.67	12.55	41.18	28.0	38.0	4000	5500
7	7	17.00	177.80	0.231	5.87	16.73	7.59	24.89	14.5	20.0	2100	2900
		20.00	177.80	0.272	6.91	19.58	8.88	29.12	17.0	23.5	2500	3400
		23.00	177.80	0.317	8.05	22.64	10.27	33.70	20.0	27.5	2900	4000
		26.00	177.80	0.362	9.19	25.68	11.65	38.21	23.0	31.5	3300	4600
		29.00	177.80	0.408	10.36	28.75	13.04	42.78	26.0	35.5	3700	5100
8	8⅝	24.00	219.08	0.264	6.71	23.61	10.71	35.14	13.5	18.5	2000	2700
		28.00	219.08	0.304	7.72	27.05	12.27	40.24	15.5	21.5	2300	3100
		32.00	219.08	0.352	8.94	31.13	14.12	46.33	18.0	24.5	2600	3600
		36.00	219.08	0.400	10.16	35.19	15.96	52.35	20.5	28.0	3000	4100
9	9⅝	32.30	244.48	0.312	7.92	31.04	14.08	46.20	14.5	19.5	2100	2900
		36.00	244.48	0.352	8.94	34.90	15.83	51.93	16.0	22.0	2300	3200
		40.00	244.48	0.395	10.03	38.98	17.68	57.99	18.0	25.0	2600	3600
10	10¾	32.75	273.05	0.279	7.09	31.24	14.17	46.50	8.5	15.5	1200	1700
		40.50	273.05	0.350	8.89	38.91	17.65	57.91	11.0	15.0	1600	2100
		45.50	273.05	0.400	10.16	44.27	20.08	65.87	12.5	17.0	1800	2500
13	13⅜	48.00	339.72	0.330	8.38	46.01	20.87	68.48	8.0	11.0	1200	1600
		54.50	339.72	0.380	9.65	52.78	23.94	78.55	9.5	13.0	1400	1900
		61.00	339.72	0.430	10.92	59.50	26.99	88.55	10.5	14.5	1500	2100
		68.00	339.72	0.480	12.19	66.16	30.01	98.46	12.0	16.5	1700	2400

厚度公差 Thickness Tolerances	+ 不限制， -12.5%	+not specified, -12.5%
重量公差 Weight Tolerances	+6.5%, -3.5%	
備註 Note	鑫陽可生產 API Spec 5CT Goup1 產品種類為 Grade H40、J55。	For API Spec 5CT PSL 1, Shin Yang is able to produce Grade H40 and J55.
備考 Remarks	上述產品階已取得美國石油協會 API 授權使用 API Monogram。	The above-mentioned products have been authorized to use API Monogram.

包裝、標籤及噴誌

PACKAGING, LABELING AND MARKING

鑫陽鋼管產品均由本公司施予適當的包裝，而此包裝僅提供出貨後短期室內儲存之保護，而對此期間之儲存保護，相關業者保留均負有妥善保管之責任。無論如何絕不可將鋼管產品貯存於潮濕環境或戶外，以及濕氣結露或戶外雨水可能滲入鋼管包裝之環境，此時會因毛細管現象之作用汲入鋼管表面，導致水氣無法正常蒸發，而浸入鋼管底材。經一段時間後，易在鍍層或底材間產生白銹或紅銹，導致產品特性惡化，減短預期的使用壽命，並影響產品之外觀。

所有的鑫陽產品在出廠前均依本公司之標準或客戶指定的方式予以包裝以減低在搬運儲放時可能遭受的損壞。此外在產品外包裝上再加以明確的包裝標籤標示，且每支鋼管管身會賦予其噴誌，以便輕易的辨別該產品的身份及相關規格資料。

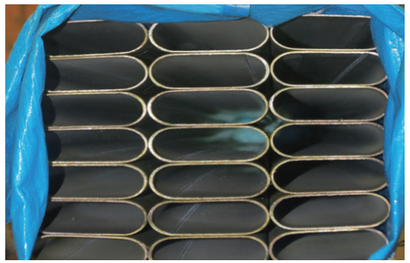
Steel pipes of Shin Yang are performed with appropriate packing. The packing is a temporary protection for indoor storage, buyer has responsibilities for indoor storage in appropriate condition. Under any circumstances, do not store steel pipes in a humid or outdoor environment. The capillarity may cause mist or water inhaling into surface or even base metal and unable to evaporate normally. It can easily cause rust between protection and base metal, deteriorate steel properties or its appearance and shorten its life span.

All products are packed in accordance with Shin Yang's standard packaging specifications, unless otherwise specified by the customer in order to minimize damage during handling and storage. In addition to product label pasted on the package, marking is stenciled on pipe body, so related information about the pipe can be easily identified.

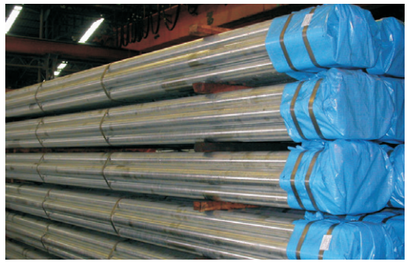
包裝範例 Example of Packaging



標準包裝（適用厚度 Sch 10以上）
Standard Packaging (Applicable to Wall Thickness≧Sch 10)



標準包裝（適用橢圓管）
Standard Packaging (Applicable to Cattle Rail Pipes)



PVC 淋膜布兩端包裝
Both Ends Wrapped with PVC



PVC 淋膜布全部包裝（兩端不包）
Pipe Body Wrapped with PVC (Both Ends Without)

包裝標籤範例 Example of Label

黑鋼管之標籤範例
Sample of product label for black steel pipe



後熱浸鍍鋅鋼管之標籤範例
Sample of product label for post hot-dip zinc-coated pipe



鋼管管身噴誌範例 Example of Marking on Pipe Body

- CNS ㊣ 鋼管產品(適用內銷)　CNS Mark Steel Pipe Product (for domestic use)
  鑫陽 時間代碼 ㊣ CNS 4626 G3111 STPG 410 -E-G 尺寸 台正字第7755號 批號

- API Monogram 鋼管產品　API Specifications Pipe Product
  （1）單一規範　Single Specifications
  SHIN YANG TAIWAN＋API 5CT 0693＋Ⓐ＋Year- Month＋PE＋Dimensions＋Unit Weight＋J Z E P ＋Hydrostatic Test Pressure＋D＋Time Code＋HT
  （2）多種規範　Multiple Specifications
  SY API Spec 5L-0507＋Ⓐ＋Time Code＋A53 B/SA53 B＋Dimensions＋B PSL1 HFW TESTED ＋Hydrostatic Test Pressure D＋HT

- 國際規範鋼管產品　International Specifications Steel Pipe Product
  SY TAIWAN+Time Code+ERW ASTM A53/A +Dimensions+HT

- 鑫陽公司規範之鋼管產品　Shin Yang's Standard (SYS) Steel Pipe Product
  鑫陽 時間代碼 尺寸 批號　SY TAIWAN+Time Code+ Dimensions+HT

備　考：(1) API Monogram鋼管產品多種規範噴誌內容係表示均符合多種規範之要求，客戶可依需求選擇此噴誌內容。
(2) 鑫陽鋼管產品管身均有『鑫陽』或『SHIN YANG』標誌。(鑫與鑫陽均為鑫陽鋼鐵的註冊商標，仿冒必究。)

Remarks：(1) Multiple specifications indicate that the marking complies with multiple international standards and can be stenciled on API Monogram pipe product upon request.
(2) "鑫陽" or "SHIN YANG" are stenciled on each pipe body. (鑫and鑫陽 are trademarks of Shin Yang Steel Co., Ltd. All rights reserved.)

訂購須知
ORDERING INFORMATION

鑫陽鋼管產品尺寸齊全且適用於多種用途，客戶可依鋼管尺寸與用途之需求向本公司訂購適合之鋼管。客戶於訂購時或使用鋼管後，如有問題時，請與本公司鋼管銷售部或鋼管技術部。

Steel pipes of Shin Yang are available in a broad range of sizes and qualities for various applications. Customers can select a product most suitable to their need.

Should you have any question, please contact our Pipe Marketing & Sales Division or Pipe Technology Division.

訂購鋼管產品時請註明下列事項
When ordering our pipe products, please specify the following items.

項次 Item	註明項目 Information	範例 Example
1	品名(熱軋鋼管/冷軋鋼管/預熱浸鍍鋅鋼管/後熱浸鍍鋅鋼管) Commodity (Hot-rolled/Cold-rolled/Pre-galvanized/ Post Hot-dip Galvanized Steel Pipes)	熱軋鋼管 Hot-Rolled Steel Pipe
2	規格記號(CNS, JIS , ASTM, BS或其他規格) Specification designation (CNS, JIS, ASTM, BS or other standard)	ASTM A53 Grade A
3	鍍鋅/絞口/平口 Zinc-coating/Threaded End/Plain Ends	—
4	表面處理 Surface Treatment	UV塗料/防鏽油 UV Coating/Anti-rust Oil
5	尺寸(外徑×厚度×長度m or ft) Dimensions (Outside Diameter×Thickness×Length m or ft)	1"×4mm×6mm/ 1"×0.133"×21'
6	用途 Application	流體配管 Water Transit Pipe
7	訂購數量(支) Volume (pieces)	2000 pieces
8	交貨期 Delivery Date	2011/03/31
9	標示 Labeling	依鑫陽公司標準 Mill standard
10	包裝方式 Packaging	依鑫陽公司標準 Mill standard
11	特殊要求 Special Requirements, if any	內刮/正切/倒角 Inside Bead Removal/ Square Cut/ Bevel End

未來展望
FUTURE OUTLOOK

鑫陽鋼鐵 SHIN YANG

台灣鋼鐵產業之發展在社會日漸多元化的影響下，因土地取得日趨不易，工資亦日益高漲，使得生產工廠的設立及經營亦日益困難。尤其是製管產業，經營更是不易。

鑫陽承襲燁輝企業固有優良的企業文化，以及精實的品質與服務管理，繼續服務海內外客戶，為使產品組合更為多元化，鑫陽鋼鐵已先後增設中型及API管車。中型管車除擴大既有之矩、方形管之尺寸外，亦可生產橢圓管。而API管車也可生產最大13⅜″之管徑，故可滿足客戶對結構、空調及石化等用管更大之需求。

今後將在回饋社會之理念下，繼續降低成本及開發高附加價值之產品，成為效率最高、品質最好之鋼管製造廠。除提供就業機會外，對用戶亦能提供一次購足之方便性、時效性及產品質量，以達到創造利潤、精益求精及贏得信任之經營理念，更要提供客戶全方位之至善服務，而成為全球最好之鋼管製造服務企業。

The development of Taiwan steel industry is influenced by social diversification. Land procurement is getting tougher. Labor cost is increasing too. The establishment and operation of a manufacturer thus become challenging. The operation of pipe making mills is especially difficult.

Shin Yang inherits the intrinsic excellent corporate culture, quality and service management from Yieh Phui. It will keep providing services to the customers in Taiwan and all over the world. In order to have a more diversified product mix, Shin Yang has installed pipe forming equipment for middle-dimension pipe and API pipe forming equipment. In the pipe forming equipment for middle-dimension pipe, rectangular and oval pipes will be produced. The API pipe forming equipment can produce pipe dimension up to 13⅜”. It can satisfy customers’ needs with structural, air-conditioning, and petrochemical pipes.

Shin Yang’s future is guided by the principle of maintaining the roots in Taiwan to repay the society for its support. Shin Yang will continue to reduce its cost and develop higher value-added products with the aim of becoming a steel pipe mill with the best efficiency and quality. Apart from supplying employment opportunities, Shin Yang intends to continue supplying customers with convenience of one-stop shopping, timely delivery, and continuous improvement in quality, by following the mandates of Profit Creation, Continuous Improvement, and Building Trust. We will provide total solution to our customers, making Shin Yang the best steel manufacturer and service provider in the world.

MIRDC ISO 9001 7M8Y009 Registered Firm 品質管理系統驗證通過工廠

CNS Registered Firm 正字標誌產品驗證通過工廠

JIS KTR CRTW13001 JIS Mark Qualified Factory 韓國KTR審查認證合格工廠

MIRDC ISO 45001 717S007 Registered Firm 職業安全衛生管理系統驗證通過工廠

API 5L&5CT Registered Firm 品質管理系統驗證通過工廠

ilac-MRA TAF Testing Laboratory 2491 Registered Firm 全國認證基金會TAF檢測實驗室認證通過工廠

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SHIN YANG STEEL CO., LTD.

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