STAINLESS STEEL PIPING SYSTEM

Huang Shangyou Is Your Technical Partner In Manufacturing
High Integrity Products

HK Huang Shang You Steel Industrial Limited

www.ulsteel.com.hk

INDUSTRY-LEADING PIPE FABRICATION

We have an extensive welding process qualification library and a highly skilled workforce, including welders with the appropriate qualifications, capable of welding pipelines and related spool pieces. We offer a wide range of material types and grades, covering a wide range of steels from high temperature creep resistant steels to low temperature application steels.

A wide range of welding processes are available to suit specific scopes of work, including the latest automated and orbital welding technologies.

CONTENTS









Huang Shangyou is a manufacturers of pipework for the Clean Energy, Waste to Energy, Pharmaceutical, Petrochemical, Nuclear and other process industries.

At Huang Shangyou, we specialise in delivering high-quality metalpipework and fabrication services tailored to meet theintricate needs of diverse industries. From basic systems tointricate industrial applications, discover how our precision engineering and expert craftsmanship set us apart.

BESPOKE PIPEWORK

INDUSTRIAL PROCESS PIPEWORK DESIGN AND FABRICATION

Our bespoke fabrication services ensure that all components fit seamlessly into your existing systems or new projects, adhering strictly to both functionality and safety standards.

Pre-Fabricated Pipework

Our pre-fabricated pipework, crafted in our workshop and shipped directly to customers offers cost-effective solutionswhile maintaining quality and precision.

Onsite Pipe Welding

Our onsite pipe welding services cater to the installation, repair and extension of systems, ensuring both speed and accuracy where onsite welding is necessary.

Heating And Cooling Pipework

Our heating and cooling pipework solutions cover a wide range of needs, including temperature control, high and low pressure systems, starting from I" pipe upwards, our solutions are tailored to meet the most demanding requirements with precision and reliability.

Process Pipework

Our process pipework specialises in hygienic applications, ensuring cleanliness through purging to create pristine welds on the insideof pipes. Our solutions meet stringent hygiene standards while maintaining optimal functionality and efficiency.

ABOUT US

Huangshangyou has rich experience in the design, manufacturing and installation of process pipelines. Our manufacturing facilities can independently produce pipeline shafts of various materials and sizes.

Our design team can customize pipeline designs for various industries and applications based on customer drawings or designs that comply with relevant project design specifications (such as ASME B31.3, ASME B31.1 and BS EN 13480). We have in-house design facilities that can model and generate complete isometric drawings including weld maps, weld detail drawings and material lists.

Our 60,000 square manufacturing production facility is equipped with state of-the-art machinery, which means that HuangShangYou has the in-house capacity to carry out all aspects of pipework fabrication.

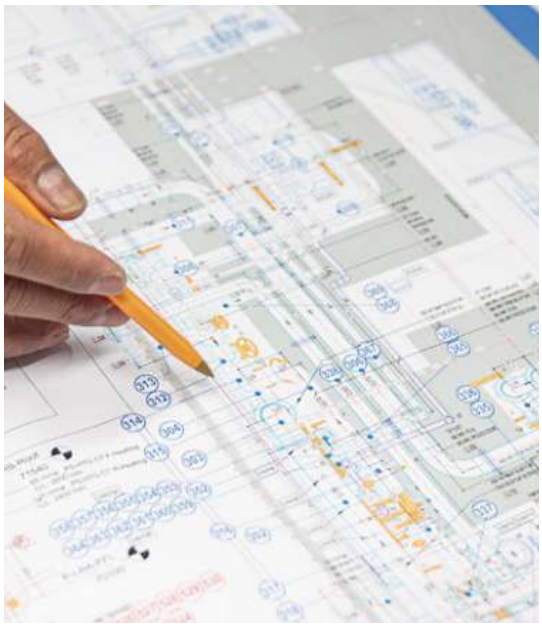
Using either customer drawings or bespoke designs created by our in-house engineering designers our team producehigh quality pipework fabrication for a range of environments and applications:"High/Low temperature、"High pressure、"Trace heated、Thermally insulated、Hazardous/corrosive chemicals.

Materials used:Carbon steel、Stainless steel、Exotic materials、Lined.

In house testing, NDT and radiography where required

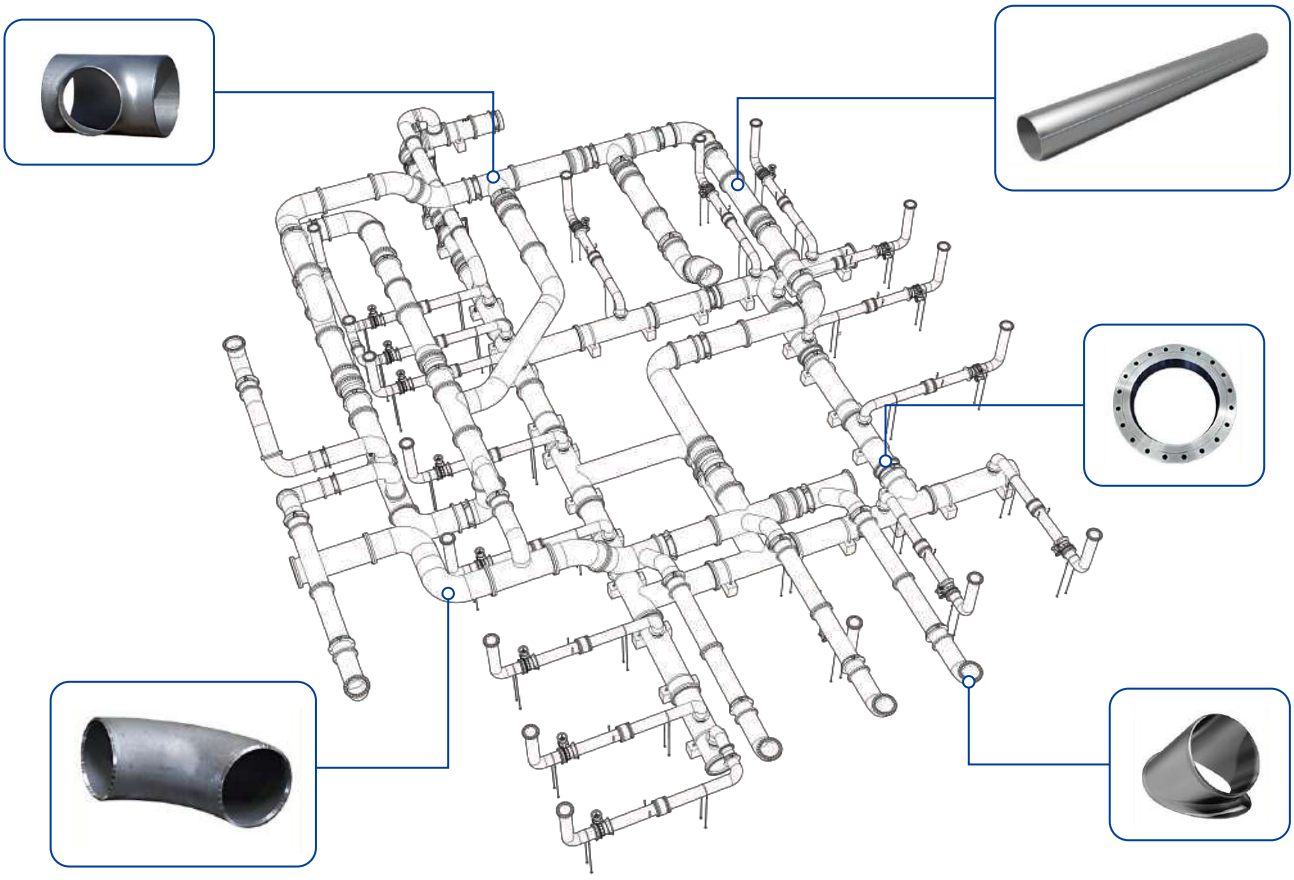
PIPE DESIGN

Huang Shangyou provides complete process piping mechanical design services, covering from receiving P&ID drawings, piping specifications to construction drawings and material counts, or designing according to your drawings. The design complies with all applicable codes and standards, including necessary PED evaluations.



INTEGRATED PIPING ONE-STOP SOLUTION

- Shortest pipe to spool lead time.
- High flexibility, prioritizing manufacturing/production according to project needs.



DESIGN FOR MANUFACTURE AND ASSEMBLY (DFMA)

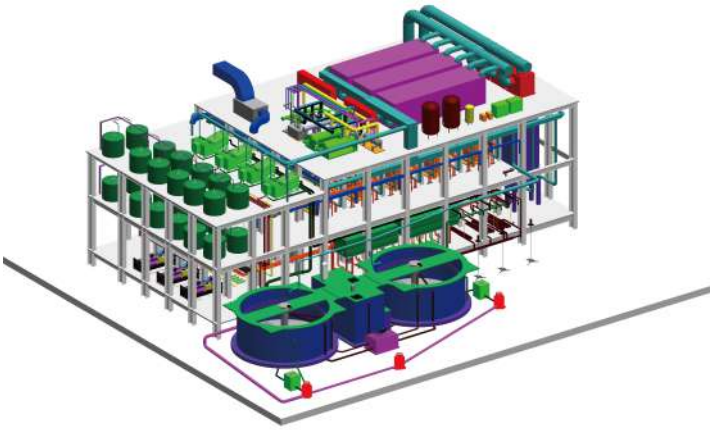
DFMA is a design method that simplifies product manufacturing and improves assembly efficiency. With the continuous update of technology and demand, more and more projects use prefabrication mode, and construction has begun to adopt manufacturing and assembly design. In the design process, the prefabricated components suitable for site installation are designed, and then the components are **pre-fabricated** in the prefab shop using **cost-effective** materials and **processing** procedures, thereby reducing costs and on-site construction procedures, improving the quality of the entire project, reducing costs and reducing construction time.

Quality Assurance | Reduce Costs | Improve Security | High Flexibility | Carbon Footprint

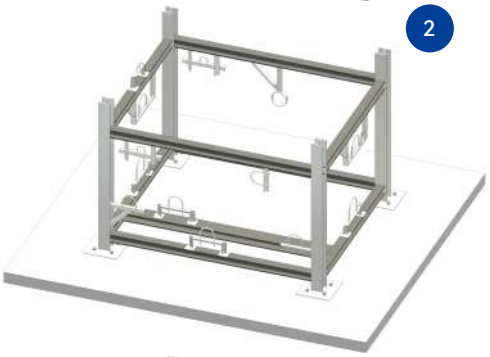
WHAT IS THE DIFFERENCE BETWEEN DFMA AND MIMEP?

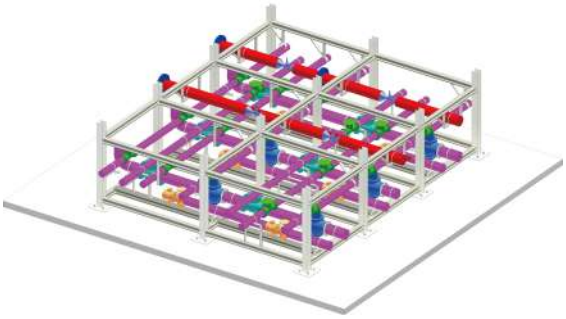
DFMA prefabrication involves manufacturing building components off-site and then assembling and installing them on-site, while MiMEP uses DFMA for mechanical, electrical, and plumbing components. MiMEP is a modular integration approach where multiple building service components (electrical, mechanical, and plumbing) are assembled into modules at the factory and then transported to the construction site for connection and installation.

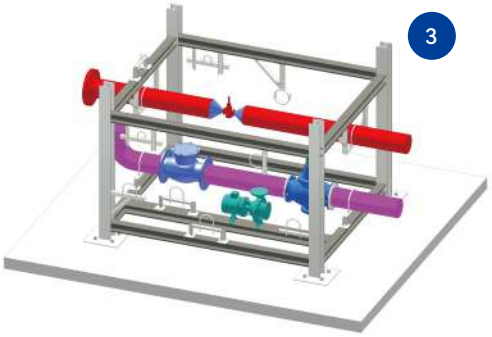
STEEL STRUCTURE FRAME WITH PIPING



Cooling Tower Condensate Water Piping System







Module Installation

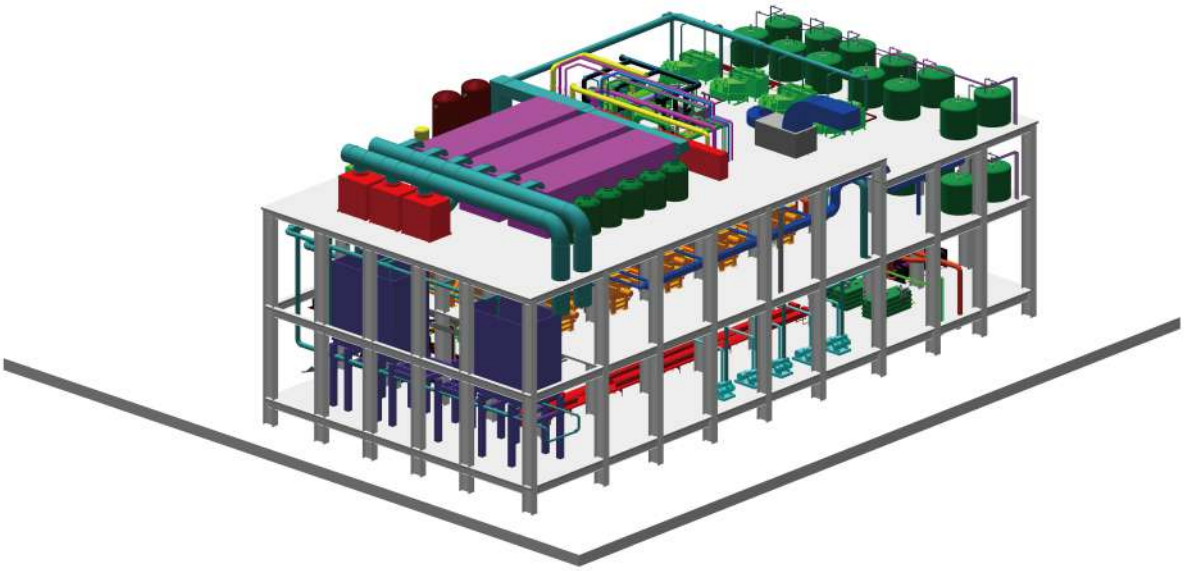
1.Fabricate steel frame modules

2.Install pipe supports and springs

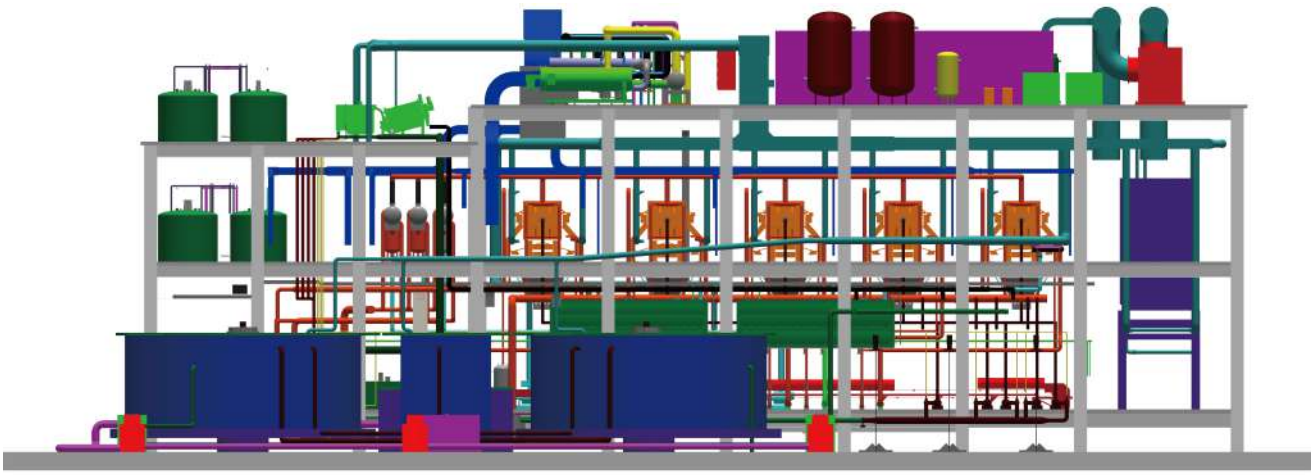
3.Install piping and accessories

4.Transport and connect piping modules

STEEL STRUCTURE FRAME WITH PIPING (CONTINUED)



Cooling Tower Condensate Water Piping System（Back）



Cooling Tower Condensate Water Piping System(Front)

WELDER CRAFTS

We ensuring quality welding with the latest techniques, as manufacturing continues to advance, it's crucial to keep up with innovations in welding in order to produce the highest quality results.

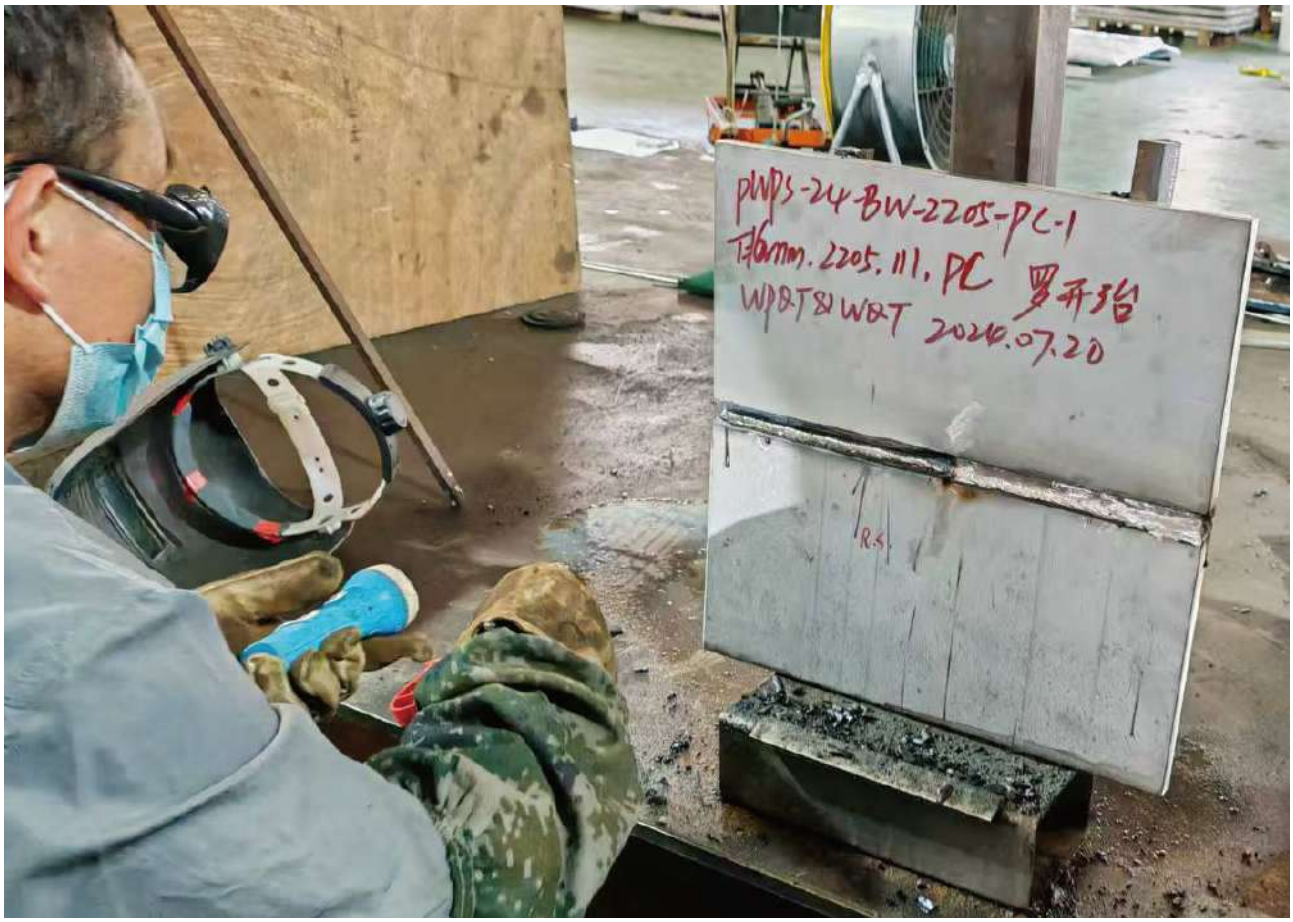
At Huang Shangyou, we make sure our welders are fully trained on cutting-edge techniques. We have expertise in reactive metals, high nickel alloys, and stainless steels – all essential for corrosion and heat resistance.

Our welders utilise processes like MIG, TIG, MMA, plasma, and orbital welding. Orbital in particular allows for precision, consistency, and access to complex joints. We've used it for pharmaceutical piping, heat exchangers, valves, on-site repairs, hygienic systems, reactor tubes, instrumentation, and more.

But we don't just stop at technical welding expertise. We also invest heavily in weld development. Through rigorous testing and documentation, we qualify our welding procedures to meet even the most stringent industry codes and standards.

This ensures the end product always meets quality and safety expectations – no matter the challenge. Our specialised experience and constant improvement gives customers confidence in the integrity of every weld.

So when your project requires flawless, specialised welds, make sure your team has the latest knowledge and skills. Reach out to learn more about our capabilities and how we can deliver robust, reliable welds for your needs!



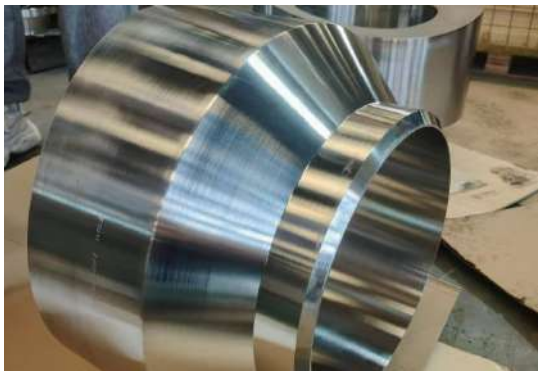
The welding team successfully completed the welding process examinations for duplex stainless steel 2205 and super duplex stainless steel 2507, and successfully passed the rigorous review of the Hong Kong Laboratory Accreditation Scheme (HOKLAS) and obtained the welding process accreditation certificate.

MANUFACTURING PROCESS

Huang Shangyou's stainless steel pipe manufacturing adopts advanced technology and perfect processes to ensure that each pipe meets industry standards. From raw materials to finished products, the entire process is strictly controlled to create safe and reliable products.

PRECISION MACHINING

Machining can accurately process raw materials into components with tight tolerances and specific dimensions, ensuring the correct fit and function of parts in complex process equipment.



Advanced Technologies:

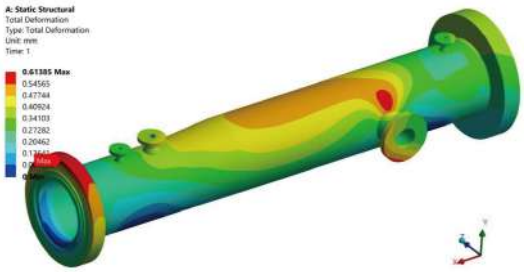
CNC Machining: Computer controlled machines for automation and precision manufacturing

Multi-axis machining: Capable of creating complex geometries with high precision

High-speed machining: Increases production efficiency and maintains quality

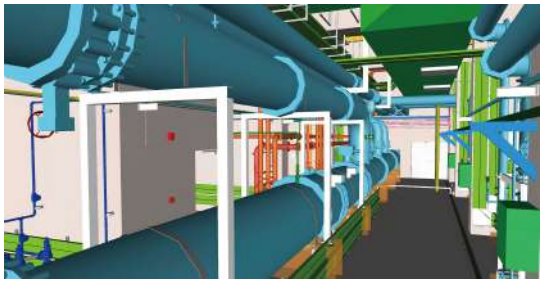
KEY DESIGN ASPECTS

Equipment Design: Design of pressure vessels, heat exchangers, pumps, compressors, reactors, separation equipment, and piping systems.



Analysis and Optimization: Utilize 3D Modeling and Simulation (CAD) for visualization, analysis, and optimization, including the use of Finite Element Analysis (FEA) and simulation tools.

Fabrication and Construction: Create detailed fabrication drawings, work with manufacturers for fabrication, and oversee installation and commissioning.



PROJECT MANAGEMENT

We have a team of experienced project managers who oversee all projects to completion.

Effective project management in factory manufacturing increases efficiency (completes projects faster), reduces costs (minimizes errors), improves product quality, and enhances collaboration.

Our team of possess technical expertise and solid problem-solving skills.

PROJECT MANAGEMENT

Weld overlay or weld cladding is the process of adding a protective coating to the surface of a parent metal.

Weld overlay is a cost-effective method for repairing worn or damaged components, protecting surfaces from corrosion or wear, and improving the performance of components in harsh environments. Selecting the appropriate welding process and materials is critical to ensuring success.

INDUSTRIES:

Oil and gas, chemical processing, mining, power generation, aerospace.

PROCESSES:

Metal arc welding (SMAW), gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), flux cored arc welding (FCAW), submerged arc welding (SAW), plasma transferred arc welding (PTA).

The choice of welding process depends on the specific application and the materials used.

INSPECTION AND TESTING

NON-DESTRUCTIVE TESTING

Non destructive testing (NDT) is a critical step in ensuring safety and quality in many industries, including nuclear energy, renewable energy, defense, and pharmaceuticals. NDT can inspect materials and components for defects without causing damage. Common NDT methods include liquid penetrant testing, magnetic particle testing, radiographic testing, ultrasonic testing, eddy current testing, and leak detection.

Huang Shangyou uses a variety of nondestructive testing (NDT) methods in the production process. Rigorous testing and inspection ensure that our products can operate safely even in extreme conditions.

Our team of level 3 inspectors are proficient in the application of the latest nondestructive testing (NDT) technology. We continue to invest in training and equipment to find the slightest defects. Quality assurance through nondestructive testing (NDT) gives us confidence in our products.

HYDROSTATIC TEST

Used to evaluate the structural integrity of pressure-containing components such as pipes, vessels and tanks, this test is used to detect leaks and ensure that the equipment under test can safely withstand its working pressure.

01

CHECK

Make sure the installation is complete and clean the inner wall of the pipe to ensure there is no impurities.

02

FILLING

The assembly is filled with water, and dye is often added to facilitate visual detection of any leaks.

03

PRESSURIZE

Increase the water pressure step by step to the normal working pressure level.

04

EVALUATE

If no leaks are detected and the pressure remains constant, the assembly is considered to have passed the test.

PRODUCT ENGINEERING PERFORMANC

Installation of WDF Pneumatic Conveying Pipeline and Steel Platform Project

Time&Amount: 2018.11-2019.3/12T

Manufacturing standard:
STAINLESS STEEL 316L WELDED FLANGE (1.4404) TO PN16RF TO BS EN 1092-1

3303/sc/m041 Design, Supply And Delivery of Stainless Steel Works Forconstruction of Box Culverts, Underground Utilities And Wvt

Time&Amount: 2020.5-2022.8/60T

Manufacturing standard:
BS EN 10224 & M-02-03

DC/2013/10 Design, Build and Operate San Wai Sewage Treatment Works - Phase 1 for Stainless Steel Pipe Fitting Project

Time&Amount: 2019.5-2019.6/6T

Manufacturing standard:
BS EN 1011-3

PRODUCT ENGINEERING PERFORMANC
(CONTINUED)

Contract No. DC/2019/10 “Yuen Long Effluent Polishing Plant – Main Works for Stage 1”

Time&Amount: 2022.11-2022.12/3T

Manufacturing standard:
ALL STANDARD FITTING: BS EN 10253-3 OR ASME B16.9 ANDB16.28

7/WSD/21 Construction of Siu Ho Wan Water Treatment Works Extension and Siu Ho Wan Raw Water Booster Pumping Station

Time&Amount: 2022.1-Present/185T

Manufacturing standard:
COMPLY WITH STAINLESS STEEL 316L(1.4404)SEAMLESS PIPE ASTM A312

Contract No, EP/SP/8615 Organic Waste Treatment Facilities Phase 2

Time&Amount: 2021-2022/22T

Manufacturing standard:
ALL STANDARD FITTING: BS EN 10253-3 OR ASME B16.9 ANDB16.28

MATERIALS AND CERTIFICATIONS

SPECIALIST MATERIALS:

- Nickel 200 & 201
- Nickel Alloys 400, 600 series, 800 series & 825
- Hastelloy C276, C22, C2000, B2, B3, G30, G35 & X
- Alloy 59 & 686
- Cupro Nickel Alloys
- Titanium Grades 1, 2, 3, 5 & 7
- Duplex Stainless Steels
- Super Duplex Stainless Steels
- Alloys 904L, 2RE69, 254 SMo etc

ACCREDITATIONS:

- ISO 45001
- ISO 14001
- ISO 9001
- ISO 3834-2
- EN 1090
- CU TR (Formerly GOST)
- Drinking Water Vessels
- NBBI R Certificate
- NBBI NB Certificate
- Fit 4 Nuclear (F4N)
- Achilles FPAL Verified

ATTESTATO DI SORVEGLIANZA DEL CONTROLLO DELLA PRODUZIONE IN FABBRICA
FACTORY PRODUCTION CONTROL ATTESTATION OF SURVEILLANCE

AS-1090-902

Fabbricante / Manufacturer: **PEAKKONG SPECIAL STEEL TECHNOLOGY (GUANGDONG) CO., LTD.**

BUILDING 1, NO.6, XIEGANG JINHAI 1 ROAD, XIEGANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, P.R. CHINA 523590

Stabilimenti di produzione / Manufacturing plant(s): BUILDING 1, NO.6, XIEGANG JINHAI 1 ROAD, XIEGANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, P.R. CHINA 523590

Certificato di conformità del Controllo della Produzione in Fabbrica / Certificate of conformity of the Factory Production Control: **1381-CPR-902**

Prodotto da Costruzione / Construction Product: **Esecuzione di strutture di acciaio** / ***Execution of steel structures***

Specifica Tecnica Armonizzata / Harmonized Technical Specification: **EN 1090-1:2009+A1:2011**

Si attesta che SGS Italia S.p.A. Organismo Notificato 1381 ha effettuato presso il Fabbricante, ispezione iniziale dello stabilimento di produzione e del controllo della produzione in fabbrica nonché la sorveglianza, valutazione e verifica del controllo della produzione in fabbrica in accordo al Sistema 2+ del Regolamento (EU) N. 305/2011 del Parlamento Europeo e del Consiglio del 9 Marzo 2011 (Regolamento dei Prodotti da Costruzione o CPR).

It is hereby declared that SGS Italia S.p.A. (Notified Body 1381) has carried out at the Manufacturer, the initial inspection of the manufacturing plant and of factory production control as well as continuous surveillance, assessment and evaluation of factory production control in accordance with System 2+ of Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR).

Questa attestazione è valida solo se accompagnata dall'indicato Certificato di conformità del controllo di produzione di fabbrica. / This attestation is valid only together with the indicated Certificate of conformity of the factory production control.

Standard Europei complementari / Complementary European Standards: **EN 1090-2: 2018 +A1:2024**

Processi di saldatura (ISO 4063) / Welding process (ISO 4063): **136, 141, 521+135**

Gruppo materiali metallici (ISO 15608) / Metallic materials group (ISO 15608): **1.1,1.2 [136]; 8.1[141]; 2.1,2.2[521+135]**

Coordinatore di saldatura responsabile (RWC) / Responsible Welding Coordinator (RWC): **Mr. Huang Wei (IWE-External)**

Prima emissione / First issue: **15.01.2024**
Aggiornamento / Update: **20.12.2024**
Scadenza / Expiry: **14.01.2026**

Per delega del Business Manager / On behalf of the Business Manager
Il Responsabile Tecnico / The Technical Manager
(Direttore Tecnico / Technical Director)

CERTIFICATO DI CONFORMITÀ N°24/1028-3834
CERTIFICATE OF CONFORMITY N°24/1028-3834

Si certifica che il prodotto sotto riportato è conforme all oggetto di certificazione:
We hereby certify that the referred product complies with the scope of certification:

FABBRICANTE / *MANUFACTURER:*
Peakkong Special Steel Technology (Guangdong) Co., Ltd.
Building 1, No.6, Xiegang Jinhai 1Road, Xiegang Town, Dongguan City, Guangdong Province, P.R. China 523590

OGGETTO DELLA CERTIFICAZIONE: / *SCOPE OF CERTIFICATION*
EN ISO 3834-2
Requisiti di qualità per la saldatura per fusione dei materiali metallici – Parte 2: Requisiti di qualità estesi
Norma UNI EN ISO 3834-2: 2021
Quality requirements for fusion welding of metallic materials – Part 2: Comprehensive quality requirements
EN ISO 3834-2: 2021 Standard

PRODOTTO IN CERTIFICAZIONE: / *PRODUCT UNDER CERTIFICATION:*
Saldatura per Fusione di Materiali Metallici
Fusion Welding of Metallic Material
Parts and Components of Steel Structures

I dettagli sui requisiti normativi di riferimento e sui prodotti sono descritti nelle pagine allegate - il cui n° è sotto riportato - che sono da ritenersi parte integrante del presente certificato) / *(Details on regulatory requirements and relevant products are described in the attached pages - whose number is mentioned hereunder - which are regarded as part of this certificate)*

Il sistema di certificazione adottato prevede, per il suo mantenimento, verifiche annuali di conformità del processo produttivo e delle prescrizioni applicabili della norma oggetto di certificazione, secondo lo schema SCP 014. / *The adopted certification system foresees for its maintenance, the annual surveillance visits verifications of the compliance of production process and related Standard prescriptions according to the scheme SCP 014.*

SGS Italia S.p.A. – Il Rappresentante Autorizzato / *SGS Italia S.p.A. – The Authorized Representative*
Caterina Scarpa

Data di emissione: 31 Dec 2024 / *Date of issue:*
Data di prima emissione: 10 Jan 2024 / *Date of first issue*
Termine di validità: 09 Jan 2027 / *Valid until:*

SGS Italia S.p.A
Via Caldera, 21
20153 Milano

CER.3634 Rev.4
Numero totale di pagine del certificato: 2 / *Total number of pages of the certificate: 2*
Pag.1

此为证书 CN23/00005883 译本

下述组织
煌港特钢科技(广东)有限公司

统一社会信用代码：91441323MA5TB0N4H
注册地址：中国广东省东莞市谢岗镇谢岗金海一路6号1栋
经营地址：中国广东省东莞市谢岗镇谢岗金海一路6号1栋
的管理体系已经过审核，并被证明符合下述要求

ISO 9001:2015

所涉及的活动范围覆盖
不锈钢、碳钢型材制品的制造

该证书的有效期自 2023 年 11 月 08 日 至 2026 年 11 月 02 日 并须经过符合要求的监督审核保持有效
版本号 2，初始注册日期 2023 年 11 月 03 日

签发
Jonathan Hall
Global Head - Certification Services
SGS United Kingdom Ltd
Rosemere Business Park, Ellesmere Port, Cheshire, CH65 3EN, UK
t +44 (0)151 350-6666 - www.sgs.com

本证书信息可在国家认证认可监督管理委员会官方网站 www.cnca.gov.cn 上查询

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ISO 45001:2018

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ISO 14001:2015

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Certificate CN23/00005883

The management system of
Peakkong Special Steel Technology (Guangdong) Co., Ltd.

Unified Social Credit Code: 91441323MA5TB0N4H
Business Registration Address: Building 1, No.6, Xiegang Jinhai 1Road, Xiegang Town, Dongguan City, Guangdong Province, P.R. China
Business Operation Address: Building 1, No.6, Xiegang Jinhai 1Road, Xiegang Town, Dongguan City, Guangdong Province, P.R. China
has been assessed and certified as meeting the requirements of
ISO 9001:2015

For the following activities
Manufacture of Stainless steel, carbon steel profile products

This certificate is valid from 08 November 2023 until 02 November 2026 and remains valid subject to satisfactory surveillance audits
Issue 2. Certified since 03 November 2023

Authorised by
Jonathan Hall
Global Head - Certification Services
SGS United Kingdom Ltd
Rosemere Business Park, Ellesmere Port, Cheshire, CH65 3EN, UK
t +44 (0)151 350-6666 - www.sgs.com

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Certificate CN23/00005885

The management system of
Peakkong Special Steel Technology (Guangdong) Co., Ltd.

Unified Social Credit Code: 91441323MA5TB0N4H
Business Registration Address: Building 1, No.6, Xiegang Jinhai 1Road, Xiegang Town, Dongguan City, Guangdong Province, P.R. China
Business Operation Address: Building 1, No.6, Xiegang Jinhai 1Road, Xiegang Town, Dongguan City, Guangdong Province, P.R. China
has been assessed and certified as meeting the requirements of
ISO 45001:2018

For the following activities
Manufacture of Stainless steel, carbon steel profile products

This certificate is valid from 08 November 2023 until 02 November 2026 and remains valid subject to satisfactory surveillance audits
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has been assessed and certified as meeting the requirements of
ISO 14001:2015

For the following activities
Manufacture of Stainless steel, carbon steel profile products

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PIPELINE STANDARDS AND SPECIFICATIONS

The products we provide are widely used in many industries such as chemical industry, petrochemical industry, energy, oil and gas, air separation, environmental protection, metallurgy, pharmaceutical industry, petroleum, natural gas, refined oil, fertilizer, water treatment, food and beverage, etc. We understand the special requirements of different industries in terms of materials, welding, testing, etc.

Huang Shang You have extensive experience in complying with ASME, PED, China GB, TEMA, CU-TR, Dosh, MOM and CRN requirement. We are also familiar with domestic and international norms and standards: ASME Code Section VIII Div.1, ASME Code Section VIII Div.2, PED 2014/68/EU, EN13445, AS 1210, CU-TR, TEMA, API 650, China GB 150 & GB151, ISO3834-2, EN1090-1/2, etc.

The products we supplied are used for a lot of Industry segments, including chemical, petrochemical, energy, oil & gas, air separation, environmental-protection, metallurgy, pharmaceutical, petroleum, natural gas, refined oil, fertilizer, water treatment, food & beverage, etc.

Utilizing manufacturing experience from numerous industries, Huang Shang You is capable of addressing the devising and executing manufacturing solutions that are unmatched for quality and cost.

PIPE WALL THICKNESS CLASSIFICATION TABLE

Nominal Pipe Size	Outside Diameter		Nominal Wall Thickness (T)											
DN	A系列	B系列	SCH5s	SCH10s	SCH20s	SCH20	SCH30	SCH40	SCH60	SCH80	SCH100	SCH120	SCH140	SCH160
15	21.3	18	1.6	2.1	2.6	-	-	2.9	-	3.6	-	-	-	4.5
20	26.9	25	1.6	2.1	2.6	-	-	2.9	-	4	-	-	-	5.6
25	33.7	32	1.6	2.8	3.2	-	-	3.2	-	4.5	-	-	-	6.3
32	42.4	39	1.6	2.8	3.2	-	-	3.6	-	5	-	-	-	6.3
40	48.3	45	1.6	2.8	3.2	-	-	3.6	-	5	-	-	-	7.1
50	60.3	57	1.6	2.8	3.2	3.6	-	4	-	5.6	-	-	-	8.8
65	76.1 (73)	76	2	3	3.6	4.5	-	5	-	7.1	-	-	-	10
80	88.9	89	2	3	4	4.5	-	5.6	-	8	-	-	-	11
90	101.6	-	2	3	4	4.5	-	5.6	-	8	-	-	-	12.5
100	114.6	108	2	3	4	5	-	5.9	-	8.8	-	11	-	14.2
125	139.7	133	2.9	3.4	4.5	5	-	6.3	-	10	-	12.5	-	16
150	168.3	159	2.9	3.4	5	5.6	-	7.1	-	11	-	14.2	-	17.5
200	219.1	219	2.9	4	5	6.3	7.1	8	10	12.5	16	17.5	20	22.2
250	273	273	3.6	4	6.3	6.3	8	8.8	12.5	16	17.5	22.2	25	28
300	323.9	325	4	4.5	6.3	6.3	8.8	10	14.2	17.5	22.2	25	28	32
350	355.6	377	4	5	-	8	10	11	16	20	25.8	28	32	36
400	406.4	246	4	5	-	8	10	12.5	17.5	22.2	28	30	36	40
450	457	478	4	5	-	8	11	14.2	20	25	30	36	40	45
500	508	529	5	5.6	-	9.5	12.5	16	20	28	32	40	45	50
550	558.8	580	6	6.4	9.5	9.5	12.5	16	22	29	35	41	48	54
600	609.6	630	6	6.4	9.5	9.5	14.3	17.5	25	31	39	46	52	60

OUTSIDE DIAMETER AND WALL THICKNESS TABLE (JAPANESE STANDARD)
JIS B2311、B2312、B2313

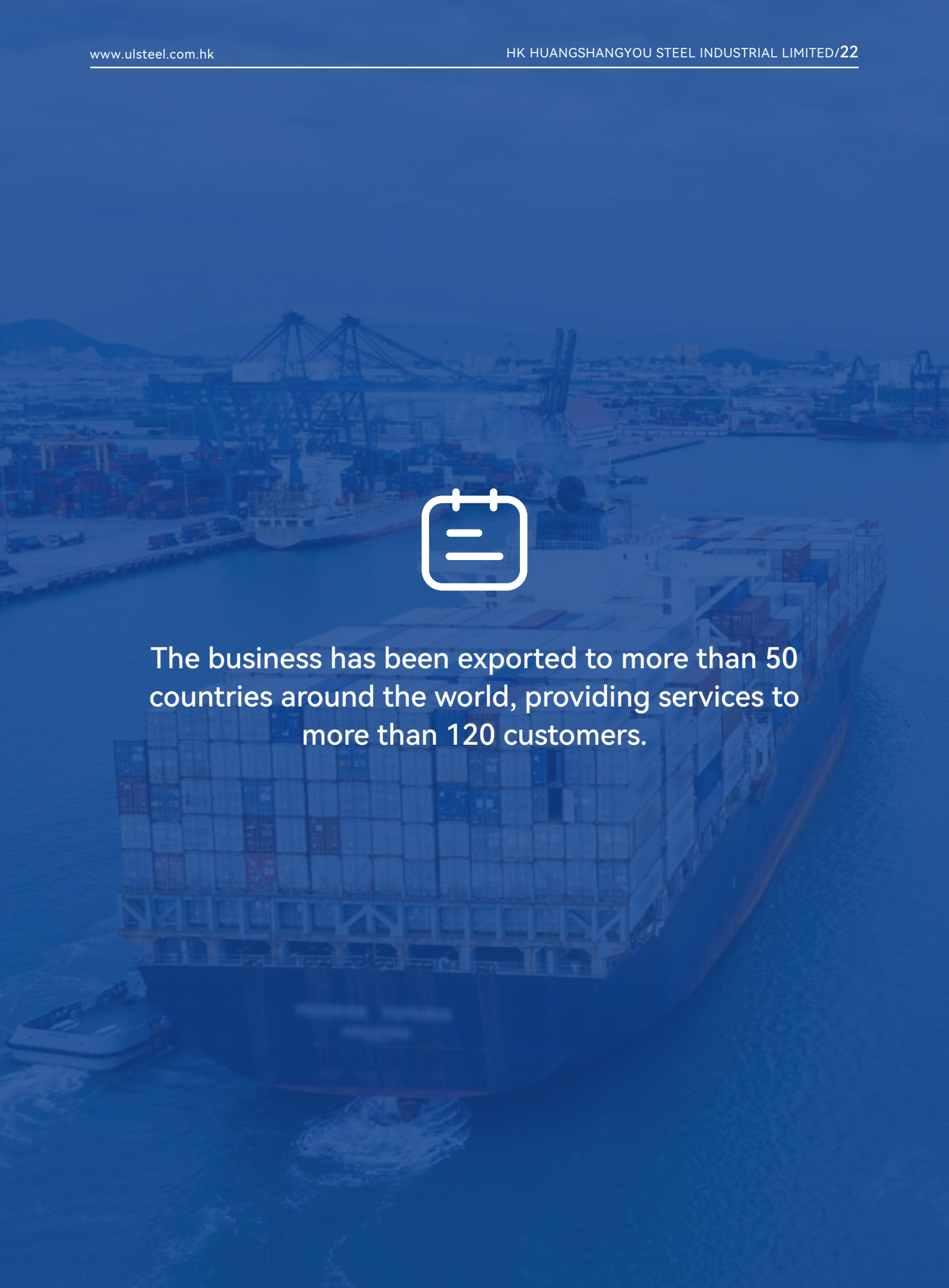
Norminal Pipe Size DN		Outside Dimeter D	Nominal Wall Thickness (T)																	
A	B (in)		SGP	Sch5s	Sch10s	Sch10	Sch20	Sch30	Sch40s	STD	Sch40	Sch60	Sch80s	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
15	1/2	21.7	2.8	1.7	2.1	—	—	—	2.8	2.8	2.8	—	3.7	3.7	3.7	—	—	—	4.8	7.5
20	3/4	27.2	2.8	1.7	2.1	—	—	—	2.9	2.9	2.9	—	3.9	3.9	3.9	—	—	—	5.6	7.8
25	1	34.0	3.2	1.7	2.8	—	—	—	3.4	3.4	3.4	—	4.5	4.5	4.5	—	—	—	6.4	9.1
32	1 1/4	42.7	3.5	1.7	2.8	—	—	—	3.6	3.6	3.6	—	4.9	4.9	4.9	—	—	—	6.4	9.7
40	1 1/2	48.6	3.5	1.7	2.8	—	—	—	3.7	3.7	3.7	—	5.1	5.1	5.1	—	—	—	7.1	10.2
50	2	60.5	3.8	1.7	2.8	—	—	—	3.9	3.9	3.9	—	5.5	5.5	5.5	—	—	—	8.7	11.1
65	2 1/2	76.3	4.2	2.1	3.0	—	—	—	5.2	5.2	5.2	—	7.0	7.0	7.0	—	—	—	9.5	14.0
80	3	89.1	4.2	2.1	3.0	—	—	—	5.5	5.5	5.5	—	7.6	7.6	7.6	—	—	—	11.1	15.2
90	3 1/2	101.6	4.2	2.1	3.0	—	—	—	5.7	5.7	5.7	—	8.1	8.1	8.1	—	—	—	—	—
100	4	114.3	4.5	2.1	3.0	—	—	—	6.0	6.0	6.0	—	8.6	8.6	8.6	—	11.1	—	13.5	17.1
125	5	139.8	4.5	2.8	3.4	—	—	—	6.6	6.6	6.6	—	9.5	9.5	9.5	—	12.7	—	15.9	19.0
150	6	165.2	5.0		3.4	—	—	—	7.1	7.1	7.1	—	11.0	11.0	11.0	—	14.3	—	18.3	21.9
200	8	216.3	5.8	2.8	3.8	—	6.4	7.0	8.2	8.2	8.2	10.3	12.7	12.7	12.7	15.1	18.3	20.6	23.0	22.2
250	10	267.4	6.6	3.4	4.2	—	6.4	7.8	9.3	9.3	9.3	12.7	12.7	12.7	15.1	18.3	21.4	25.4	28.6	25.4
300	12	318.5	6.9	4.0	4.6	—	6.4	8.4	9.5	9.5	10.3	14.3	12.7	12.7	17.5	21.4	25.4	28.6	33.3	25.4
350	14	355.6	7.9	4.0	4.8	6.4	7.9	9.5	9.5	9.5	11.1	15.1	—	12.7	19.0	23.8	27.8	31.8	35.7	—
400	16	406.4	7.9	4.2	4.8	6.4	7.9	9.5	9.5	9.5	12.7	16.7	—	12.7	21.4	26.2	31.0	36.5	40.5	—
450	18	457.2	7.9	4.2	4.8	6.4	7.9	11.1	9.5	9.5	14.3	19.0	—	12.7	23.8	29.4	34.9	39.7	45.2	—
500	20	508.0	7.9	4.8	5.5	6.4	9.5	12.7	9.5	9.5	15.1	20.6	—	12.7	26.2	32.5	38.1	44.4	50.0	—
550	22	558.8	—	4.8	5.5	6.4	9.5	12.7	9.5	9.5	—	22.2	—	12.7	28.6	34.9	41.3	47.6	54.0	—
600	24	609.6	—	5.5	6.4	6.4	9.5	14.3	9.5	9.5	17.5	24.6	—	12.7	31.0	38.9	46.0	52.4	59.5	—
650	26	660.4	—	—	—	7.9	12.7	—	—	9.5	—	—	—	12.7	—	—	—	—	—	—
700	28	711.2	—	—	—	7.9	12.7	15.9	—	9.5	—	—	—	12.7	—	—	—	—	—	—
750	30	762.0	—	6.4	7.9	7.9	12.7	15.9	9.5	9.5	—	—	—	12.7	—	—	—	—	—	—
800	32	812.8	—	—	—	7.9	12.7	15.9	—	9.5	17.5	—	—	12.7	—	—	—	—	—	—
850	34	863.6	—	—	—	7.9	12.7	15.9	—	9.5	17.5	—	—	12.7	—	—	—	—	—	—
900	36	914.4	—	—	—	7.9	12.7	15.9	—	9.5	19.0	—	—	12.7	—	—	—	—	—	—
950	38	965.2	—	—	—	—	—	—	—	9.5		—	—	12.7	—	—	—	—	—	—
1000	40	1016.0	—	—	—	—	—	—	—	9.5		—	—	12.7	—	—	—	—	—	—
1050	42	1066.8	—	—	—	—	—	—	—	9.5		—	—	12.7	—	—	—	—	—	—
1100	44	1117.6	—	—	—	—	—	—	—	9.5		—	—	12.7	—	—	—	—	—	—
1150	46	1168.4	—	—	—	—	—	—	—	9.5		—	—	12.7	—	—	—	—	—	—
1200	48	1219.2	—	—	—	—	—	—	—	9.5		—	—	12.7	—	—	—	—	—	—

OUTSIDE DIAMETER AND WALL THICKNESS TABLE (AMERICAN STANDARD)
ANSI B36.10、B36.19M

Norminal Pipe Size DN (in)	Outside Dimeter D	Nominal Wall Thickness (T)																
		Sch5s	Sch10s	Sch10	Sch20	Sch30	Sch40s	STD	Sch40	Sch60	Sch80s	XS	Sch80	Sch100	Sch120	Sch140	Sch160	XXS
1/8	10.3	—	1.24	—	—	—	1.73	1.73	1.73	—	2.41	2.41	2.41	—	—	—	—	—
1/4	13.7	—	1.65	—	—	—	2.24	2.24	2.24	—	3.02	3.02	3.02	—	—	—	—	—
3/8	17.1	—	1.65	—	—	—	2.31	2.31	2.31	—	3.20	3.20	3.20	—	—	—	—	—
1/2	21.3	1.65	2.11	—	—	—	2.77	2.77	2.77	—	3.73	3.73	3.73	—	—	—	4.78	7.47
3/4	26.7	1.65	2.11	—	—	—	2.87	2.87	2.87	—	3.91	3.91	3.91	—	—	—	5.56	7.82
1	33.4	1.65	2.77	—	—	—	3.38	3.38	3.38	—	4.55	4.55	4.55	—	—	—	6.35	9.09
1 1/4	42.2	1.65	2.77	—	—	—	3.56	3.56	3.56	—	4.85	4.85	4.85	—	—	—	6.35	9.70
1 1/2	48.3	1.65	2.77	—	—	—	3.68	3.68	3.68	—	5.08	5.08	5.08	—	—	—	7.14	10.15
2	60.3	1.65	2.77	—	—	—	3.91	3.91	3.91	—	5.54	5.54	5.54	—	—	—	8.74	11.07
2 1/2	73.0	2.11	3.05	—	—	—	5.16	5.16	5.16	—	7.01	7.01	7.01	—	—	—	9.53	14.02
3	88.9	2.11	3.05	—	—	—	5.49	5.49	5.49	—	7.62	7.62	7.62	—	—	—	11.13	15.24
3 1/2	101.6	2.11	3.05	—	—	—	5.74	5.74	5.74	—	8.08	8.08	8.08	—	—	—	—	—
4	114.3	2.11	3.05	—	—	—	6.02	6.02	6.02	—	8.56	8.56	8.56	—	11.13	—	13.49	17.12
5	141.3	2.77	3.40	—	—	—	6.55	6.55	6.55	—	9.53	9.53	9.53	—	12.70	—	15.88	19.05
6	168.3	2.77	3.40	—	—	—	7.11	7.11	7.11	—	10.97	10.97	10.97	—	14.27	—	18.26	21.95
8	219.1	2.77	3.76	—	6.35	7.04	8.18	8.18	8.18	10.31	12.70	12.70	12.70	15.09	18.26	20.62	23.01	22.23
10	273.1	3.40	4.19	—	6.35	7.80	9.27	9.27	9.27	12.70	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
12	323.9	3.96	4.57	—	6.35	8.38	9.53	9.53	10.31	14.27	12.70	12.70	17.48	21.44	25.40	28.58	33.32	25.40
14	355.6	3.96	4.78	6.35	7.92	9.53	—	9.53	11.13	15.09	—	12.70	19.05	23.83	27.79	31.75	35.71	—
16	406.4	4.19	4.78	6.35	7.92	9.53	—	9.53	12.70	16.66	—	12.70	21.44	26.19	30.96	36.53	40.49	—
18	457.2	4.19	4.78	6.35	7.92	11.13	—	9.53	14.27	19.05	—	12.70	23.83	29.36	34.96	39.67	45.24	—
20	508.0	4.78	5.54	6.35	9.53	12.70	—	9.53	15.09	20.62	—	12.70	26.19	32.54	38.10	44.45	50.01	—
22	558.8	4.78	5.54	6.35	9.53	12.70	—	9.53	—	22.23	—	12.70	28.58	34.93	41.28	47.63	53.98	—
24	609.6	5.54	6.35	6.35	9.53	14.27	—	9.53	17.48	24.61	—	12.70	30.96	38.89	46.02	52.37	59.54	—
26	660.4	—	—	7.92	12.70	—	—	9.53	—	—	—	12.70	—	—	—	—	—	—
28	711.2	—	—	7.92	12.70	15.88	—	9.53	—	—	—	12.70	—	—	—	—	—	—
30	762.0	6.35	7.92	7.92	12.70	15.88	—	9.53	—	—	—	12.70	—	—	—	—	—	—
32	812.8	—	—	7.92	12.70	15.88	—	9.53	17.48	—	—	12.70	—	—	—	—	—	—
34	863.6	—	—	7.92	12.70	15.88	—	9.53	17.48	—	—	12.70	—	—	—	—	—	—
36	914.4	—	—	7.92	12.70	15.88	—	9.53	17.48	—	—	12.70	—	—	—	—	—	—
38	965.2	—	—	—	—	—	—	9.53	—	—	—	12.70	—	—	—	—	—	—
40	1016.0	—	—	—	—	—	—	9.53	—	—	—	12.70	—	—	—	—	—	—
42	1066.8	—	—	—	—	—	—	9.53	—	—	—	12.70	—	—	—	—	—	—
44	1117.6	—	—	—	—	—	—	9.53	—	—	—	12.70	—	—	—	—	—	—
46	1168.4	—	—	—	—	—	—	9.53	—	—	—	12.70	—	—	—	—	—	—
48	1219.2	—	—	—	—	—	—	9.53	—	—	—	12.70	—	—	—	—	—	—

PACKAGING AND TRANSPORTATION

Stainless steel pipe packaging uses multi-layer protection, shock-proof, moisture-proof and customized solutions to effectively avoid bumps, rust and deformation during transportation and storage, ensuring the quality and safety of pipelines from production to delivery. It is a key link in ensuring its stable performance and engineering quality.how a product will respond to real-world forces.



The business has been exported to more than 50 countries around the world, providing services to more than 120 customers.

HK Huang Shang You
Steel Industrial Limited

Office:
G/F, 69C, Bedford Road, Tai Kok Tsui, Kowloon, Hong Kong
Tel: +852-28366696 Phone: +852-92991977 +852-97900448
E-mail:king@ulsteel.com

Factory:
Building 1, No.6, Jinhai 1st Road, Xiegang Town, Dongguan City,
Guangdong Province, P.R. China
Tel: 0769-82869307
E-mail: sales@peakkong.com