公司简介
COMPANY PROFILE

邯郸市正大制管有限公司（以下简称ZDP）坐落河北省邯郸市， 是国内一家专业生产钢管的制造型企业。正大制管成立于2005年，依靠自身的不断发展壮大，邯郸正大制管于2014年建立了迁安正大通用钢管有限公司。至2016年，正大制管已经成为国内钢管制造企业前三甲。目前拥有职工4000余名，年生产能力达到600万吨。

正大制管的六大产品为：ERW钢管，热镀锌钢管，方矩管，热镀锌方矩管和钢塑复合管。公司先后通过了国际ISO9001-2008质量体系认证，摩迪英联质量、环境、职业健康与安全三体系认证，美国石油协会API 5L认证和欧盟CE认证。 正大制管的产品广泛应用于油气输送、给排水、天然气、采暖蒸汽和其他低压流体输送，同时还应用于脚手架搭建、家具、大棚管以及其他机械制造用。

正大制管是中建、中铁、中石油、中石化、中煤等其他诸多国家大型企业的指定供应商。目前正大产品已出口到英国、美国、加拿大、墨西哥、利比亚、俄罗斯、秘鲁、澳大利亚、塔吉克斯坦、哥伦比亚、葡萄牙、阿尔巴尼亚等国家。

Handan Zhengda Steel Pipe Co., Ltd. (ZDP) is located in Handan Hebei, which is known as a professional steel pipe manufacture in China. Established in 2005, based on its own strength, ZDP has been developing continuously. It has invested in constructing Qian'an Zhengda General Steel Pipe Co., Ltd. in 2014, ZDP is the top 2 steel pipe manufacture in China, now has more than 4,000 employees, with annual production capacity 6 million tons.

Main products are ERW Steel Pipe, Hot-Dip Galvanized Pipe, Square and Rectangular Steel Pipe, Galvanized SHS and RHS, Spiral Steel Pipe and Steel-Plastic Composite Pipe. ZDP has got ISO9001-2008, ISO14001:2004, BS-OHSAS 18001:2007, API 5L and CE Certificates. ZDP pipes are widely used in transporting of water, gas, air, oil, heating steam and other low-pressure fluid, also used for scaffolding, furniture, greenhouse and other mechanical construction.

ZDP is the assigned supplier of China Construction, CRCC, CNPC, Sinopec, CRCC, China Coal and other national companies. ZDP's Products have been exported to UK, USA, Canada, Mexico, Libya, Russia, Peru, Australia, Tajikistan, Columbia, Portugal, Albania etc..

CERTIFICATES 资质证书

格式：MI1102R01

中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY

质量管理体系认证证书
QUALITY MANAGEMENT SYSTEM CERTIFICATE

编号：No.00515Q22940R0M

兹证明

邯郸市正大制管有限公司

（注册/生产地址1：河北省邯郸市成安县聚良大道北延路东西姚堡村　邮编：056700）
（办公/生产地址2：河北省邯郸市成安县聚良大道9号　邮编：056700；组织机构代码：77616210-3）

This is to certify that the Quality Management System (QMS) of

HANDAN CITY ZHENGDA MANUFACTURE PIPE CO., LTD.

(Registered/Production Add 1: XIYAOBAO VILLAGE, EAST OF JULIANG AVENUE NORTH EXTENSION LINE, CHENGAN COUNTY, HANDAN CITY, HEBEI PROVENCE, 056700, P.R.CHINA)
(Office/Production Add 2: No.9, JULIANG AVENUE, CHENGAN COUNTY, HANDAN CITY, HEBEI PROVENCE, 056700, P.R.CHINA; Organizational Code: 77616210-3)

建立的质量管理体系符合标准：**GB/T 19001-2008 / ISO 9001:2008。**
has been found to conform to standard **GB/T 19001-2008 / ISO 9001:2008.**

本证书对下述范围的质量管理体系有效：***许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、热镀锌方矩形钢管的生产*。**
This certificate is valid to the following scope for QMS: ***PRODUCTION OF SPIRAL SEAM SUBMERGED ARC WELDED STEEL PIPE, HIGH-FREQUENCY WELDED PIPES, HOT DIP GALVANIZED HIGH FREQUENCY WELDED PIPE AND HOT DIP GALVANIZED SQUARE RECTANGULAR STEEL TUBE WITHIN THE SCOPE OF LICENSE*.**

本证书有效期至：**2018 年 12 月 23 日。**
This certificate is valid until **23 December 2018.**

注：GB/T19001-2008/ISO9001：2008 认证标准有效期至 2018 年 9 月 15 日。
Remarks: The certification to GB/T19001-2008/ISO9001：2008 is valid to 15 September, 2018.

证书专用章 Seal for Certificate CC00

发证日期：2015 年 12 月 24 日
Issued on: **24 December 2015**
总经理：
General Manager **Huang Shiyuan**

QMS

中国船级社质量认证公司　北京市东直门南大街9号　100006　电话：+86(10)65135400　网址：www.sccc.com
40 Dong Huang Cheng Gen Nan Jie,Beijing, 100006, China　Tel: +86(10)65135400　Website: www.sccc.com

格式：MI1102R03

中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY

职业健康安全管理体系认证证书
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

编号：No.00515S22942R0M

兹证明

邯郸市正大制管有限公司

（注册/生产地址1：河北省邯郸市成安县聚良大道北延路东西姚堡村　邮编：056700）
（办公/生产地址2：河北省邯郸市成安县聚良大道9号　邮编：056700）

This is to certify that the Occupational Health and Safety Management System (OHSMS) of

HANDAN CITY ZHENGDA MANUFACTURE PIPE CO., LTD.

(Registered/Production Add 1: XIYAOBAO VILLAGE, EAST OF JULIANG AVENUE NORTH EXTENSION LINE, CHENGAN COUNTY, HANDAN CITY, HEBEI PROVENCE, 056700, P.R.CHINA)
(Office/Production Add 2: No.9, JULIANG AVENUE, CHENGAN COUNTY, HANDAN CITY, HEBEI PROVENCE, 056700, P.R.CHINA)

建立的职业健康安全管理体系符合标准：**GB/T 28001-2011/OHSAS18001: 2007**
has been found to conform to standard: **GB/T 28001-2011/OHSAS18001: 2007**

本证书对下述范围的职业健康安全管理体系有效：***许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、热镀锌方矩形钢管的生产*。**
This certificate is valid to the following scope for OHSMS: ***PRODUCTION OF SPIRAL SEAM SUBMERGED ARC WELDED STEEL PIPE, HIGH-FREQUENCY WELDED PIPES, HOT DIP GALVANIZED HIGH FREQUENCY WELDED PIPE AND HOT DIP GALVANIZED SQUARE RECTANGULAR STEEL TUBE WITHIN THE SCOPE OF LICENSE*.**

本证书有效期至：**2018 年 12 月 23 日。**
This certificate is valid until **23 December 2018.**

证书专用章 Seal for Certificate CC00

发证日期：2015 年 12 月 24 日
Issued on: **24 December 2015.**
总经理：
General Manager **Huang Shiyuan**

OHSMS

中国船级社质量认证公司　北京市东直门南大街9号　100006　电话：+86(10)65135400　网址：www.sccc.com
40 Dong Huang Cheng Gen Nan Jie,Beijing, 100006, China　Tel: +86(10)65135400　Website: www.sccc.com

格式：MI1102R02

中国船级社质量认证公司
CHINA CLASSIFICATION SOCIETY CERTIFICATION COMPANY

环境管理体系认证证书
ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

编号：No.00515E22941R0M

兹证明

邯郸市正大制管有限公司

（注册/生产地址1：河北省邯郸市成安县聚良大道北延路东西姚堡村　邮编：056700）
（办公/生产地址2：河北省邯郸市成安县聚良大道9号　邮编：056700）

This is to certify that the Environmental Management System (EMS) of

HANDAN CITY ZHENGDA MANUFACTURE PIPE CO., LTD.

(Registered/Production Add 1: XIYAOBAO VILLAGE, EAST OF JULIANG AVENUE NORTH EXTENSION LINE, CHENGAN COUNTY, HANDAN CITY, HEBEI PROVENCE, 056700, P.R.CHINA)
(Office/Production Add 2: No.9, JULIANG AVENUE, CHENGAN COUNTY, HANDAN CITY, HEBEI PROVENCE, 056700, P.R.CHINA)

建立的环境管理体系符合标准：**GB/T 24001-2004 / ISO 14001:2004。**
has been found to conform to standard: **GB/T 24001-2004 / ISO 14001:2004.**

本证书对下述范围的环境管理体系有效：***许可范围内螺旋缝埋弧焊钢管、直缝高频焊管、热镀锌高频焊管、热镀锌方矩形钢管的生产*。**
This certificate is valid to the following scope for EMS: ***PRODUCTION OF SPIRAL SEAM SUBMERGED ARC WELDED STEEL PIPE, HIGH-FREQUENCY WELDED PIPES, HOT DIP GALVANIZED HIGH FREQUENCY WELDED PIPE AND HOT DIP GALVANIZED SQUARE RECTANGULAR STEEL TUBE WITHIN THE SCOPE OF LICENSE*.**

本证书有效期至：**2018 年 12 月 23 日。**
This certificate is valid until **23 December 2018.**

注：GB/T24001-2004/ISO14001：2004 认证标准有效期至 2018 年 9 月 15 日。
Remarks: The certification to GB/T24001-2004/ISO14001：2004 is valid to 15 September, 2018.

证书专用章 Seal for Certificate CC00

发证日期：2015 年 12 月 24 日
Issued on: **24 December 2015.**
总经理：
General Manager **Huang Shiyuan**

EMS

中国船级社质量认证公司　北京市东直门南大街9号　100006　电话：+86(10)65135400　网址：www.sccc.com
40 Dong Huang Cheng Gen Nan Jie,Beijing, 100006, China　Tel: +86(10)65135400　Website: www.sccc.com

CERTIFICATES 资质证书

SGS

Certificate of Conformity of the Factory Production Control
CN17/40002

In compliance with **Regulation 305/2011/EU** of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

ERW Round pipe
(OD: 21.3mm-219mm,WT: 2.0mm-6.0mm)
ERW Square pipe
(25*25mm-200*200mm,WT: 2.0mm-10.0mm)
ERW Rectangular pipe
(40*20mm-200*150mm,WT: 2.0mm-10.0mm)
Material
S235JRH,S275J0H
placed on the market under the name or trade mark of

Handan City Zhengda Manufacture Pipe Co.,Ltd.
No.9 Juliang Avenue, Chengan County, Handan City,
Hebei Province, 056700, P.R.China

and produced in the manufacturing plant

Handan City Zhengda Manufacture Pipe Co.,Ltd.
No.9 Juliang Avenue, Chengan County, Handan City,
Hebei Province, 056700, P.R.China

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 10219-1:2006

under system 2+ for the performances set out above are applied and that the factory production control fulfils all the prescribed requirements for these performances.

This certificate is valid from 12/01/2017 until 12/01/2020 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performances of the declared essential characteristics, do not change, and the construction product and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the factory production control certification body.

Re certification audit due before 1/11/2020.
Issue 1. This certificate was first issued on 12 Jan 2017.
Authorised by

UKAS PRODUCT CERTIFICATION
0005

J Saunders
BUSINESS MANAGER
SGS United Kingdom Limited, Notified Body 0120
Unit 202B Worle Parkway, Weston-super-Mare, BS22 6WA, United Kingdom
t +44 (0)1934 522917f +44 (0)1934 522137
e-mail sgsprodcert@sgs.com www. sgs.com

Page 1 of 1
SGS CE 13 0715

Certificate of Authority to use the Official API Monogram
ORIGINAL

License Number: 5L-0786

The American Petroleum Institute hereby grants to

HANDAN ZHENGDA MANUFACTURE PIPE CO., LTD.
North Side, Julian Road
Chengxi Industry Zone, Chengan County
Handan, Hebei
People's Republic of China

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-5L** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **5L-0786**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Manufacturer of Line Pipe Plain End at PSL 1, Manufacturer of Line Pipe Plain End at PSL 2 - Type of Pipe: SAWH / Delivery Condition: M / Max. Grade: X70

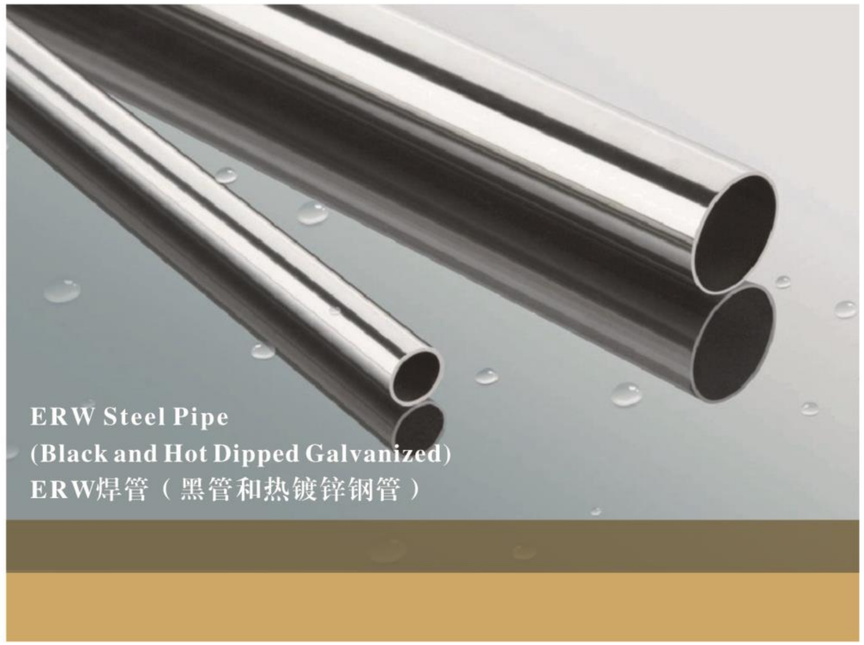
QMS Exclusions: Design and Development; Servicing

Effective Date: AUGUST 18, 2017
Expiration Date: AUGUST 18, 2018

To verify the authenticity of this license, go to www.api.org/compositelst.

Vice President, API Global Industry Services

API Q1®
American Petroleum Institute
AMERICAN PETROLEUM INSTITUTE CORPORATE SEAL INCORPORATED STATE
2015-313



产品应用

输送水、煤气、消防、空气、油和取暖蒸汽等低压流体输送，以及农业大棚、家具、脚手架等机械结构用途的焊接钢管。

生产标准

GB/T 9711-2011
GB/T 3091-2015
GB/T 13793-2008
ASTM A53
EN10217
JIS G3444

ERW焊管

生产线：16条
年生产能力：120万吨

热镀锌圆管

生产线：12条
年生产能力：120万吨

Application Fields

Transport of water, gas, fire, air, oil and heating steam and other low-pressure fluid transport, and agricultural greenhouses, furniture, scaffol ding and other mechanical structure of the use of welded steel pipe.

Production Standards

GB/T 9711-2011
GB/T 3091-2015
GB/T 13793-2008
ASTM A53
EN10217
JIS G3444

ERW Black Steel Pipe

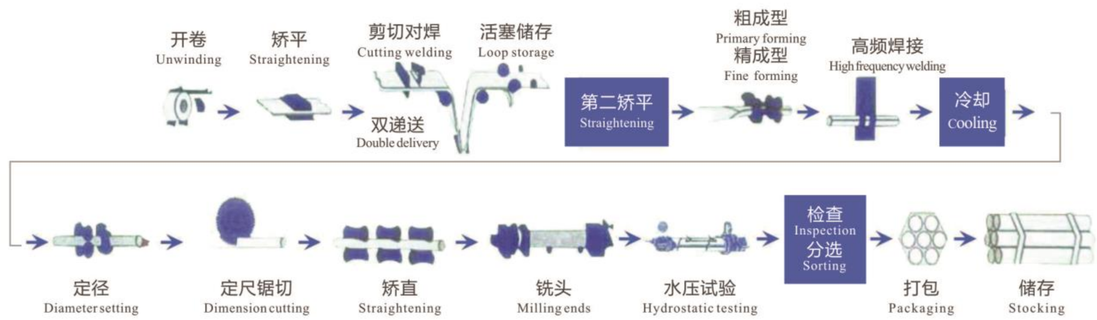
1.Production Line: 16
2.Annual Capacity: 1,200,000 Tons

Galvanized Steel Pipe

1.Production Line: 12
2.Annual Capacity: 1,200,000 Tons

直缝焊管工艺流程图

PFD of ERW Steel Pipe



ERW焊管重量（kg/m）

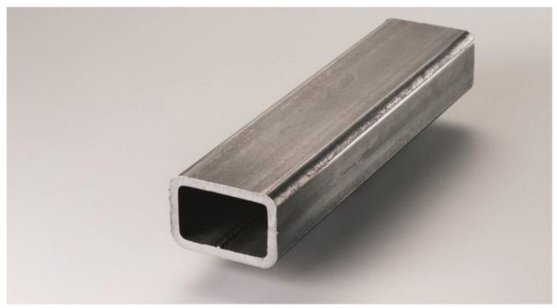
Size&Weight of ERW Steel Pipe

Diameter / Wall Thickness	1/2"(21.3)	3/4"(26.7)	1"(33.4)	1-1/4"(42.4)	1-1/2"(48.3)	2"(60.3)	2-1/2"(73)	3"(88.9)	4"(114.3)	5"(141.3)	6"(165)	8"(219.1)
1.50	0.73	0.93										
1.60	0.78	0.99										
1.70	0.82	1.05	1.33	1.71	1.95							
1.80	0.87	1.11	1.40	1.80	2.06							
1.90	0.91	1.16	1.48	1.90	2.17	2.74	3.33					
2.00	0.95	1.22	1.55	1.99	2.28	2.88	3.50					
2.20	1.04	1.33	1.70	2.18	2.50	3.15	3.84					
2.30	1.08	1.38	1.76	2.27	2.61	3.29	4.01					
2.40	1.12	1.44	1.83	2.37	2.72	3.43	4.18	5.12	6.62			
2.50	1.16	1.50	1.90	2.46	2.82	3.56	4.35	5.33	6.90	8.56	10.02	
2.75	1.26	1.62	2.08	2.69	3.09	3.90	4.76	5.84	7.56	9.40	11.00	
3.00			2.25	2.91	3.35	4.24	5.18	6.35	8.23	10.23	11.99	15.99
3.25			2.42	3.14	3.61	4.57	5.60	6.86	8.90	11.06	12.96	17.30
3.50					3.87	4.90	6.00	7.37	9.56	11.90	13.93	18.61
3.75					4.12	5.23	6.40	7.87	10.22	12.72	14.91	19.91
4.00					4.37	5.55	6.81	8.37	10.88	13.54	15.88	21.22
4.25								8.87	11.53	14.36	16.85	22.52
4.50								9.37	12.18	15.18	17.81	23.81
4.75									12.83	15.99	18.77	25.11
5.00									13.48	16.81	19.73	26.40
5.25												27.69
5.50												28.98
5.75												30.25
6.00												31.53

Square and Rectangular Steel Pipe

(Black and Hot Dipped Galvanized)

方矩管（黑管和热镀锌钢管）



产品应用

机械设备，太阳能设备，钢结构，汽车部件，桥梁地桩，护栏，船舶内部结构。

生产标准

GB/T6728-2002
GB/T6725-2008
GB/T3094-2012
JG/T 178-2005
JIS G3466-2006
EN10219-2006
ASTM A500

黑管

生产线：12条
年生产能力：80万吨

热镀锌方管

生产线：16条
年生产能力：80万吨

Application Fields

Machinery and equipment, solar energy equipment, steel structure,auto parts, bridge pile, guardrail, ship internal structure.

Production Standards

GB/T6728-2002
GB/T6725-2008
GB/T3094-2012
JG/T 178-2005
JIS G3466-2006
EN10219-2006
ASTM A500

Black SHS/RHS

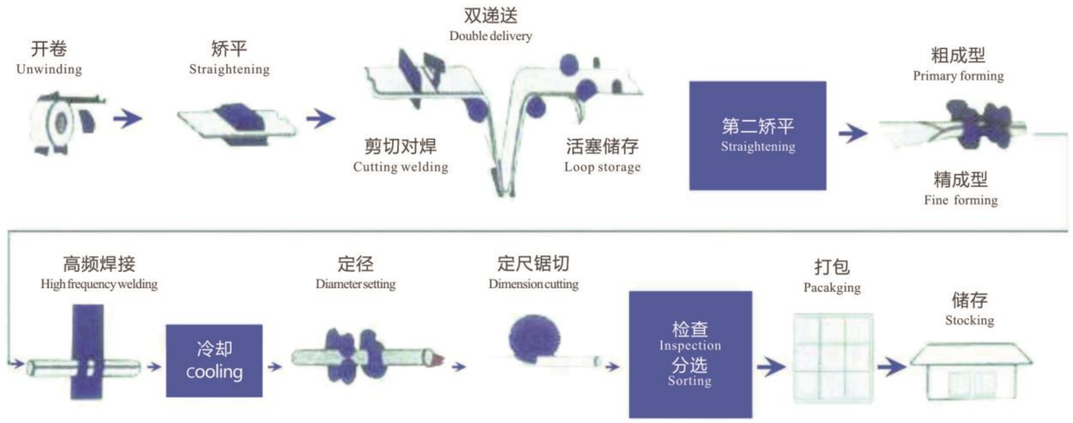
1.Production Line: 12
2.Annual Capacity: 800,000 Tons

Galvanized SHS/RHS

1.Production Line: 16
2.Annual Capacity: 800,000 Tons

方矩型管工艺流程图

PFD of Square&Rectangulr Steel Pipe



方管重量（kg/m）

Size&Weight of Square Pipe

Diameter / Wall Thickness	25*25	30*30	40*40	50*50	60*60	70*70	80*80	100*100	120*120	150*150	200*200	300*300
1.50	1.08	1.31	1.78	2.25								
1.60	1.14	1.39	1.89	2.40								
1.70	1.20	1.47	2.01	2.54								
1.80	1.27	1.61	2.12	2.68								
1.90	1.33	1.63	2.22	2.82								
2.00	1.39	1.70	2.33	2.96	3.59							
2.20	1.51	1.86	2.55	3.24	3.93							
2.30	1.57	1.93	2.65	3.37	4.10							
2.40	1.63	2.00	2.76	3.51	4.26							
2.50	1.68	2.07	2.86	3.64	4.43	5.21	6.00	7.57	9.14			
2.75	1.82	2.25	3.11	3.98	4.84	5.71	6.57	8.30	10.02			
3.00		2.42	3.36	4.31	5.25	6.19	7.13	9.02	10.90	13.73		
3.25			3.61	4.63	5.65	6.67	7.69	9.73	11.77	14.83		
3.50			3.85	4.95	6.04	7.14	8.24	10.44	12.64	15.94	21.43	32.42
3.75			4.08	5.26	6.43	7.61	8.79	11.14	13.50	17.03	22.96	34.69
4.00			4.31	5.56	6.82	8.07	9.33	11.84	14.35	18.12	24.40	36.96
4.25				5.86	7.20	8.53	9.87	12.53	15.20	19.21	25.88	39.22
4.50				6.16	7.57	8.98	10.40	13.22	16.05	20.29	27.35	41.48
4.75				6.44	7.94	9.43	10.92	13.90	16.89	21.36	28.82	43.73
5.00				6.73	8.30	9.87	11.44	14.58	17.72	22.43	30.28	45.98
5.25							11.95	15.25	18.55	23.49	31.73	48.22
5.50							12.46	15.91	19.37	24.55	33.18	50.45
5.75							12.96	16.57	20.18	25.60	34.63	52.68
6.00								17.22	21.00	26.64	36.06	54.9
6.50										28.72	38.92	59.33
6.75										29.75	40.35	61.54
7.00										30.77	41.76	63.74
7.50										32.80	44.58	68.12
7.75										33.81	45.97	70.31
8.00										34.81	47.37	72.49
9.75											56.96	87.58
10.00											58.31	89.71

矩管重量（kg/m）

Size&Weight Of Rectangular Pipe

Diameter / Wall Thickness	40*20	40*30	50*25	50*30	60*40	70*50	80*40	80*60	100*50	100*60	120*60	120*80	150*100	160*80	200*100	250*150	400*200
1.50	1.31																
1.60	1.39																
1.70	1.47	1.74	1.87	2.01													
1.80	1.55	1.83	1.97	2.12	2.68												
1.90	1.63	1.93	2.08	2.22	2.82												
2.00	1.70	2.02	2.18	2.33	2.96	3.59	3.59										
2.20	1.86	2.20	2.37	2.55	3.24	3.93	3.93	4.62	4.96								
2.30	1.93	2.29	2.47	2.65	3.37	4.10	4.10	4.82	5.18	5.54							
2.40	2.00	2.38	2.57	2.76	3.51	4.26	4.26	5.02	5.39	5.77							
2.50	2.07	2.47	2.67	2.86	3.64	4.43	4.43	5.21	5.61	6.00	6.78	7.57					
2.75	2.25	2.69	2.90	3.11	3.98	4.84	4.84	5.71	6.14	6.57	7.43	8.30					
3.00	2.42	2.90	3.13	3.36	4.31	5.25	5.25	6.19	6.66	7.13	8.07	9.02	11.37	10.90	13.73	18.44	32.42
3.25		3.10	3.35	3.61	4.63	5.65	5.65	6.67	7.18	7.69	8.71	9.73	12.82	11.77	14.83	19.94	34.69
3.50				3.85	4.95	6.04	6.04	7.14	7.69	8.24	9.34	10.44	13.19	12.64	15.94	21.43	36.96
3.75				4.08	5.26	6.43	6.43	7.61	8.20	8.79	9.97	11.14	14.09	13.50	17.03	22.92	39.22
4.00					5.56	6.82	6.82	8.07	8.70	9.33	10.59	11.84	14.98	14.35	18.12	24.40	41.48
4.25								8.53	9.20	9.87	11.20	12.53	15.87	15.20	19.21	25.88	43.73
4.50								8.98	9.69	10.40	11.81	13.22	16.75	16.05	20.29	27.35	45.98
4.75								9.43	10.17	10.92	12.41	13.90	17.63	16.89	21.35	28.82	48.22
5.00								9.87	10.65	11.44	13.01	14.58	18.50	17.72	22.43	30.28	50.45
5.25									11.13	11.95	13.60	15.25	19.37	18.55	23.49	31.73	52.68
5.50									11.59	12.46	14.19	15.91	20.23	19.37	24.55	33.18	54.90
5.75									12.06	12.96	14.86	16.57	21.09	20.18	25.60	34.63	59.33
6.00									12.51	13.46	15.34	17.22	21.93	21.00	26.64	36.06	61.54
6.50													23.62	22.60	28.72	38.92	63.74
6.75													24.45	23.39	29.75	40.35	68.12
7.00													25.28	24.18	30.77	41.76	70.31
7.50													26.91	25.74	32.80	44.58	72.49
7.75													27.72	26.51	33.81	45.97	87.58
8.00													28.53	27.27	34.81	47.37	89.71
9.75																56.96	
10.00																58.31	

螺旋缝双面埋弧焊管
SSAW Steel Pipe
(Spiral Submerged Arc Welded Steel Pipe)

产品应用

可用于输送天然气、水、空气、燃气、暖气等普通液体，也可用于打桩、结构等施工领域。

生产标准

GB/T9711-2011
API 5L (PSL1/PSL 2)
SY/T5037

螺旋焊钢管

生产线：6条
年生产能力：16万吨

Application Fields

It can be used for the transportation of ordinary fluids such as gas, water, gas, fire, air and heating steam, and can be used for piling , Structure and other construction areas.

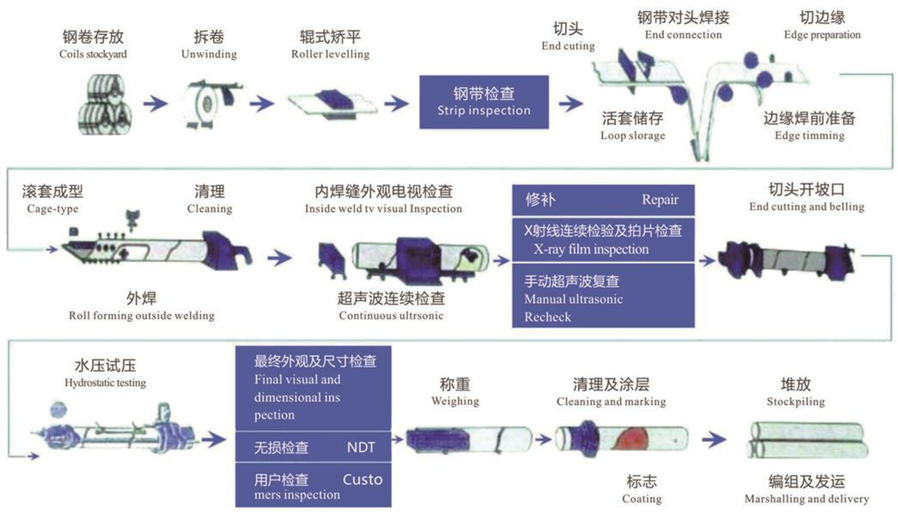
Production Standards

GB/T9711-2011
API 5L (PSL1/PSL 2)
SY/T5037

SSAW Steel Pipe

1.Production Line: 12
2.Annual Capacity: 160,000 Tons

螺旋缝双面埋弧焊管工艺流程图
PFD of SSAW Steel Pipe



螺旋缝双面埋弧焊管重量（kg/m）
Size&Weight of SSAW Steel Pipe

Diameter \ Wall thickness		6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00
inch	mm											
8	219.1	31.53	36.61	41.65	48.63	51.57	56.45					
10	273.1	39.52	45.94	52.30	58.62	64.88	71.10					
12	323.9	47.04	54.71	62.32	69.89	77.41	84.88					
14	355	51.73	60.18	68.58	76.93	85.23	93.48					
16	406.4	59.25	68.95	78.60	88.20	97.76	107.26					
18	457	66.73	77.68	88.58	99.44	110.24	120.99	131.69				
20	508	74.28	86.49	98.65	110.75	122.81	134.82	146.79				
22	559	81.83	95.29	108.71	122.07	135.39	148.66	161.88				
24	610	89.37	104.10	118.77	133.39	147.97	162.49	176.97	191.40			
26	660	96.77	112.73	128.63	144.49	160.30	176.06	191.77	207.43			
28	711	104.32	121.53	138.73	155.81	172.88	189.89	206.86	223.78			
32	813	119.41	139.14	158.82	178.45	198.03	217.56	237.05	256.48	275.86		
36	914	134.36	156.58	178.75	200.87	222.94	244.96	266.94	288.86	310.73		
40	1016	149.45	174.18	198.87	223.51	248.09	272.63	297.12	321.56	345.95		
42	1067	156.99	182.98	208.92	234.81	260.65	286.45	312.19	337.89	363.54		
44	1118	164.54	191.79	218.99	246.15	273.25	300.30	327.31	354.26	381.17	408.02	434.83
48	1219	179.49	209.23	238.92	268.56	298.16	327.70	357.20	386.64	416.04	445.39	474.68
56	1422		244.27	278.97	313.62	348.22	382.77	417.27	451.72	486.13	520.48	554.79
64	1626		279.49	319.22	358.90	398.53	438.11	477.64	517.13	556.56	595.95	635.28
68	1727			339.14	381.32	423.44	465.51	507.53	549.51	591.43	633.31	675.13
72	1829			359.27	403.96	448.59	493.18	537.72	582.21	626.65	671.04	715.38
80	2032			396.15	448.98	498.63	548.22	597.76	647.25	696.69	746.09	795.43

产品应用

适用于日常生活用水、饮用水、自来水、燃气、消防、化工产品等的流体输送和加热工程。

Application Fields

Suitable for fluid transp ortation and heating engineering for daily use, drinking water, tap water, gas, fire fighting, chemicalproducts, etc.

生产标准

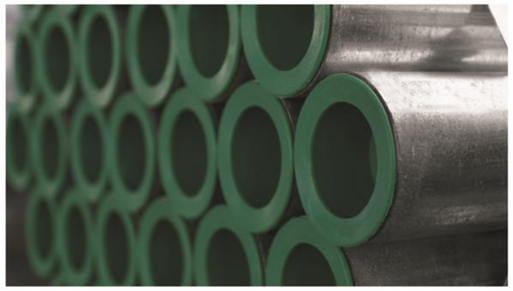
GB/T28897-2012
GB/T3091-2015

Production Standards

GB/T28897-2012
GB/T3091-2015

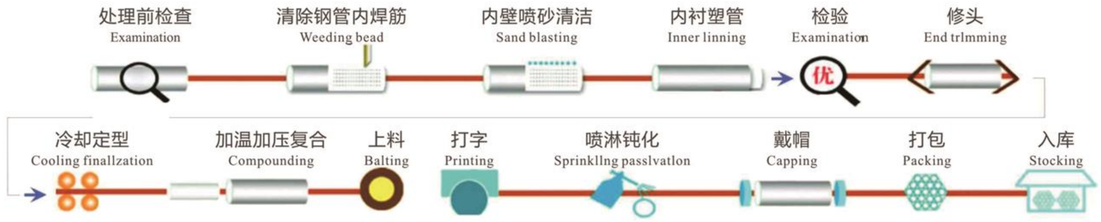
Steel–Plastic Composites Pipe

钢塑复合管



钢塑复合管工艺流程图

PFD of Steel&Plastic Complex Pipe



List of Specifications

Specifications		Application	Chemical Requirement(%)						Physical Requirement		Elongation Min(%)		Flattening Test	Bend Test	Hydrostatic & NDT	Others
			C (MAX)	Si (MAX)	Mn (MAX)	P (MAX)	S (MAX)	Others	Tensile Strength Min MPa(Psi)	Yield Strength Min MPa(Psi)	Longitudinal Direction	Transverse Direction				
ASTM A53	A	Carbon Steel pipes for ordinary piping	0.25	—	0.95	0.05	0.045	Cu,Cr,Ni ≤0.40 MO≤0.15 V≤0.08	330MPa (48000 Psi)	205MPa (30000 Psi)	e-625,000x e:minimum elongation in 2 in(50.8mm) A:Cross - Sectional area of the test specimen in sq in U:Specified minimum ultimate tensile strength in Psi		Weld portion:H2/3D The other side of weld portion:H=1/3D	For Pipe NPS 2and under 90°X12D 180°X8D When order for close coiling	Specified respectively in size and grade(p=2st/D) The maximum pressure NPS 3≤P=2500Psi NPS>3：P=2800 Psi NDT and NDT (NPS 2 and over)	*ZN Coatng Weight: 500g/m² *Heat treatment on the weld seem area(GradeB)
	B		0.30	—	1.20	0.05	0.045		415MPa (60000 Psi)	240MPa (35000 Psi)						
ASTM A252	Grade I	—	—	—	—	0.05	—	—	345MPa (50000 Psi)	207MPa (30000 Psi)	30 (E=48t+15.00),t=(inch)		—	—	—	—
	Grade II								414MPa (60000 Psi)	241MPa (35000 Psi)	25 (E=40t+12.50),t=(inch)					
	Grade III								455MPa (66000 Psi)	310MPa (45000 Psi)	20 (E=32t+10.00),t=(inch)					
ASTM A500	A	Structural Carbon Steel Pipes in Round	0.30	—	—	0.045	0.045	Cu≥0.20 When required	310MPa (45000 Psi)	228MPa (33000 Psi)	25		—	—	—	If necessary,Stress relieved,anneaeld
	B		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	289MPa (42000 Psi)	23					
	C		0.27	—	1.40	0.045	0.045		428MPa (62000 Psi)	317MPa (46000 Psi)	21					
	D		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	248MPa (36000 Psi)	23					
	A	Structural Carbon Steel Pipes in Square& Rectangular	0.30	—	—	0.045	0.045	Cu≥0.20 When required	310MPa (45000 Psi)	269MPa (39000 Psi)	25		H=(1+e)t / e+t/D A:e=0.07 B:e=0.09 C:e=0.06			
	B		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	317MPa (46000 Psi)	23					
	C		0.27	—	1.40	0.045	0.045		428MPa (62000 Psi)	345MPa (50000 Psi)	21					
	D		0.30	—	—	0.045	0.045		400MPa (58000 Psi)	248MPa (36000 Psi)	23					
ASTM A795	A	Carbon Steel Pipes For Fire Protection Use	0.25	—	0.95	0.035	0.035	—	—	—	—		Weld portion: H=2/3D The other side of weld portion: H=1/2D	—	In accordance with the specified hydrotastic pressures or NDT	*ZN Coating Weight : 460g/m²(min)
	B		0.30	—	1.20	0.035	0.035									
KS D 3566 (JIS G3444)	STK 290	General Structural Purposes	—	—	—	0.050	0.050	—	290(30)	—	30	25	H=2/3D	Outside Diameter 50mm and Under 90°X8D	—	—
	STK 400		0.25	—	—	0.040	0.040	—	400(41)	235(24)	23	18	H=2/3D	90°X6D		
	STK 500		0.24	0.35	0.30-1.00	0.040	0.040	—	490(51)	315(36)	15	10	H=7/8D	90°X6D		
	STK 490		0.18	0.55	1.50	0.040	0.040	—	500(50)	355(32)	23	18	H=7/8D	90°X6D		
	STK 540		0.23	0.23	1.50	0.040	0.040	—	540(55)	390(40)	20	16	H=7/8	90°X6D		

ASTM A500 GRADE A/B/C

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
1/2"×1/2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
5/8"×5/8"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
3/4"×3/4"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
1"×1"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
1 1/4"×1 1/4"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
1 1/2"×1 1/2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
2"×1"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
2"×1"	0.095	2.41	13
	0.109	2.77	12
	0.120	3.05	11
2"×2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.109	2.77	12
	0.120	3.05	11
	0.165	4.19	8
	0.180	4.57	7
2-1/2"×2-1/2"	0.042	1.07	19
	0.049	1.24	18
	0.058	1.47	17
	0.065	1.65	16
	0.072	1.83	15
	0.083	2.11	14
	0.109	2.77	12
	0.120	3.05	11
	0.165	4.19	8
	0.180	4.57	7
	0.083	2.11	14
3"×3"	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
3 1/2"×3 1/2"	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.083	2.11	14
4"×2"	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
4"×3"	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
4"×4"	0.083	2.11	14
	0.095	2.41	13
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	

ASTM A500 GRADE A/B/C

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
5"×5"	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
6"×2"	0.120	3.05	11
6"×3"	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
6"×4" 6"×6"	0.313	7.95	
	0.120	3.05	11
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
7"×7" 8"×4"	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
8"×6" 8"×8"	0.313	7.95	
	0.375	9.50	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
10"×4"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
10"×6"	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	

Dimension (inch)	Thickness (inch)	Thickness (mm)	Thickness (gaug)
10"×10"	0.180	4.57	7
	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
12"×4"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
12"×8"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
12"×12"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.180	4.57	7
14"×14"	0.250	6.35	
	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	0.180	4.57	7
	0.250	6.35	
16"×16"	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	0.180	4.57	7
	0.250	6.35	
20"×20"	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	0.180	4.57	7
	0.250	6.35	
24"×24"	0.313	7.95	
	0.375	9.53	
	0.500	12.7	
	0.562	14.27	
	0.625	15.88	
	=		

Dimension: 2/5"×2/5"-24"×24"(inch)

Thickness: 0.5-18(mm)

Length: 100-12000(mm)

ASTM A53 GRADE A/B/C

Nominal Diameter		Outerside Diameter		Sch. No	Wall Thickness		Nominal Weight	
NPS	DN	inch	mm		inch	mm	lb/ft	kg/m
1/2	15	0.84	21.3	40	0.109	2.77	0.85	1.27
	15	0.84	21.3	80	0.147	3.73	1.09	1.62
	15	0.84	21.3	160	0.188	4.78	1.31	1.95
	15	0.84	21.3	-	0.294	7.47	1.72	2.55
3/4	20	1.05	26.7	40	0.113	2.87	1.13	1.69
	20	1.05	26.7	80	0.154	3.91	1.48	2.20
	20	1.05	26.7	160	0.219	5.56	1.95	2.90
	20	1.05	26.7	-	0.308	7.82	2.44	3.64
1	25	1.315	33.4	40	0.133	3.38	1.68	2.50
	25	1.315	33.4	80	0.179	4.55	2.17	3.24
	25	1.315	33.4	160	0.25	6.35	2.85	4.24
	25	1.315	33.4	-	0.358	9.09	3.66	5.45
1 1/4	32	1.66	42.2	40	0.14	3.56	2.27	3.39
	32	1.66	42.2	80	0.191	4.85	3	4.47
	32	1.66	42.2	160	0.25	6.35	3.77	5.61
	32	1.66	42.2	-	0.382	9.70	5.22	7.77
1 1/2	40	1.90	48.3	40	0.145	3.68	2.72	4.05
	40	1.90	48.3	80	0.20	5.08	3.63	5.41
	40	1.90	48.3	160	0.281	7.14	4.86	7.25
	40	1.90	48.3	-	0.40	10.15	6.41	9.55
2	50	2.375	60.3	40	0.154	3.91	3.66	5.44
	50	2.375	60.3	80	0.218	5.54	5.03	7.48
	50	2.375	60.3	160	0.344	8.74	7.47	11.11
	50	2.375	60.3	-	0.436	11.07	9.04	13.44
2 1/2	65	2.875	73	40	0.203	5.16	5.8	8.63
	65	2.875	73	80	0.276	7.01	7.67	11.41
	65	2.875	73	160	0.375	9.53	10.02	14.92
	65	2.875	73	-	0.552	14.02	13.71	20.39
3	80	3.50	88.9	40	0.216	5.49	7.58	11.29
	80	3.50	88.9	80	0.30	7.62	10.26	15.27
	80	3.50	88.9	160	0.438	11.13	14.34	21.35
3 1/2	90	4.00	101.6	40	0.226	5.74	9.12	13.57
	90	4.00	101.6	80	0.318	8.08	12.52	18.64
4	100	4.50	114.3	40	0.237	6.02	10.80	16.08
	100	4.50	114.3	80	0.337	8.56	15.00	22.32
	100	4.50	114.3	160	0.531	13.49	22.53	33.54
5	125	5.563	141.3	40	0.258	6.55	14.63	21.77
	125	5.563	141.3	80	0.375	9.53	20.80	30.97
	125	5.563	141.3	160	0.625	15.88	32.99	49.12
6	150	6.625	168.3	40	0.280	7.11	18.99	28.26
	150	6.625	168.3	80	0.432	10.97	28.60	42.56
	150	6.625	168.3	160	0.719	18.26	45.39	67.57
8	200	8.625	219.1	20	0.250	6.35	22.38	33.32
	200	8.625	219.1	40	0.322	8.18	28.58	42.55
	200	8.625	219.1	80	0.500	12.7	43.43	64.64
	200	8.625	219.1	160	0.906	23.01	74.76	111.27

BS 1387–1985 / BS EN10255

Tube	Size		Outside Dia Black/galvanized Tube				Wall Thickness		Weight Of Black/galvanized Tube				Pieces Per Bundle
			Minimum		Maximum				Plain Ends		Screwde&socketed		
	inch	DN	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
Light	1/2"	15	0.825	21.0	0.841	21.4	0.079	2.0	0.289	0.947	0.291	0.956	153
	3/4"	20	1.041	26.4	1.059	26.9	0.091	2.3	0.421	1.38	0.424	1.39	127
	1"	25	1.309	33.2	1.328	33.8	0.102	2.6	0.603	1.98	0.61	2.00	91
	1 1/4"	32	1.650	41.9	1.670	42.5	0.102	2.6	0.774	2.54	0.783	2.57	61
	1 1/2"	40	1.882	47.8	1.903	48.4	0.114	2.9	0.985	3.23	0.997	3.27	61
	2"	50	2.347	59.6	2.370	60.2	0.114	2.9	1.24	4.08	1.26	4.15	37
	2 1/2"	65	2.960	75.2	2.991	76	0.126	3.2	1.74	5.71	1.78	5.83	37
	3"	80	3.460	87.9	3.491	88.7	0.126	3.2	2.05	6.72	2.1	6.59	19
	4"	100	4.450	110.0	4.481	113.9	0.142	3.6	2.97	9.75	3.05	10.00	19
Medium	1/2"	15	0.831	21.1	0.856	21.7	0.102	2.6	0.369	1.21	0.372	1.22	127
	3/4"	20	1.047	26.6	1.072	27.2	0.102	2.6	0.475	1.56	0.479	1.57	101
	1"	25	1.316	33.4	1.346	34.2	0.126	3.2	0.735	2.41	0.741	2.43	61
	1 1/4"	32	1.657	42.1	1.687	42.9	0.126	3.2	0.945	3.10	0.954	3.13	51
	1 1/2"	40	1.889	48.0	1.919	48.8	0.126	3.2	1.09	3.57	1.10	3.61	44
	2"	50	2.354	59.8	2.394	60.8	0.142	3.6	1.53	5.03	1.55	5.10	29
	2 1/2"	65	2.969	75.4	3.014	76.6	0.142	3.6	1.96	6.43	1.99	6.55	24
	3"	80	3.469	88.1	3.524	89.5	0.157	4.0	2.55	8.37	2.6	8.54	19
	4"	100	4.459	113.3	4.524	114.9	0.177	4.5	3.72	12.2	3.81	12.5	14
	5"	125	5.461	138.7	5.535	140.6	0.197	5.0	5.06	16.6	5.21	17.1	10
	6"	150	6.460	164.1	6.539	166.1	0.197	5.0	6.00	19.7	6.19	20.3	7
Heavy	1/2"	15	0.831	21.1	0.856	21.7	0.126	3.2	0.439	1.44	0.442	1.45	127
	3/4"	20	1.047	26.6	1.072	27.2	0.126	3.2	0.570	1.87	0.573	1.88	101
	1"	25	1.316	33.4	1.346	34.2	0.157	4.0	0.896	2.94	0.902	2.96	61
	1 1/4"	32	1.657	42.1	1.687	42.9	0.157	4.0	1.16	3.80	1.17	3.83	51
	1 1/2"	40	1.889	48.0	1.919	48.8	0.157	4.0	1.33	4.38	1.35	4.42	44
	2"	50	2.354	59.8	2.394	60.8	0.177	4.5	1.89	6.19	1.91	6.26	29
	2 1/2"	65	2.969	75.4	3.014	76.6	0.177	4.5	2.42	7.93	2.45	8.05	24
	3"	80	3.469	88.1	3.524	89.5	0.197	5.0	3.14	10.3	3.2	10.5	19
	4"	100	4.459	113.3	4.524	114.9	0.212	5.4	4.42	14.5	4.51	14.8	14
	5"	125	5.461	138.7	5.535	140.6	0.212	5.4	5.46	17.9	5.61	18.4	10
	6"	150	6.460	164.1	6.539	166.1	0.212	5.4	6.49	21.3	6.67	21.9	7

ASTM A795 Black and Hot dipped Zinc-Coated, Welded Steel Pipe for Fire Protection Use

Dimensions, Weights, and Test Pressures For Light-Weight Fire Protection Pipe-Schedule 10

NPS Designator	Outerside Diameter		Nominal Wall Thickness		Weight Plain End		Test Pressure Electric Resistance Weld	
	inch	mm	inch	mm	lb/ft	kg/m	psi	Mpa
3/4	1.050	(26.7)	0.083	(2.11)	0.86	(1.28)	700	(4.83)
1	1.315	(33.4)	0.109	(2.77)	1.41	(2.09)	700	(4.83)
1 1/4	1.660	(42.2)	0.109	(2.77)	1.81	(2.69)	1000	(6.89)
1 1/2	1.900	(48.3)	0.109	(2.77)	2.09	(3.11)	1000	(6.89)
2	2.375	(60.3)	0.109	(2.77)	2.64	(3.93)	1000	(6.89)
2 1/2	2.875	(73.0)	0.120	(3.05)	3.53	(5.26)	1000	(6.89)
3	3.500	(88.9)	0.120	(3.05)	4.34	(6.46)	1000	(6.89)
3 1/2	4.000	(101.6)	0.120	(3.05)	4.98	(7.41)	1200	(8.27)
4	4.500	(114.3)	0.120	(3.05)	5.62	(8.37)	1200	(3.05)
5	5.563	(141.3)	0.134	(3.40)	7.78	(11.58)	1200	(3.40)
6	6.625	(168.3)	0.134	(3.40)	9.30	(13.85)	1000	(3.40)
8	8.625	(219.1)	0.188	(4.78)	16.96	(25.26)	800	(4.78)
10	10.750	(273.1)	0.188	(4.78)	21.23	(31.26)	700	(4.78)

Dimensions, Weights, and Test Pressures For Light-Weight Fire Protection Pipe-Schedule 30 and Schedule 40

NPS Designator	Outerside Diameter		Nominal Wall Thickness		Weight Plain End		Weight Plain and Couplings		Test Pressure Electric Resistance Weld	
	inch	mm	inch	mm	lb/ft	kg/m	lb/ft	kg/m	psi	Mpa
1/2	0.840	(21.3)	0.109	(2.77)	0.850	(1.27)	0.85	(1.27)	700	(4.83)
3/4	1.050	(26.7)	0.113	(2.87)	1.130	(1.69)	1.13	(1.68)	700	(4.83)
1	1.315	(33.4)	0.133	(3.38)	1.680	(2.50)	1.68	(2.50)	700	(4.83)
1 1/4	1.660	(42.2)	0.140	(3.56)	2.270	(3.39)	2.28	(3.40)	1000	(6.89)
1 1/2	1.900	(48.3)	0.145	(3.68)	2.720	(4.05)	2.73	(4.07)	1000	(6.89)
2	2.375	(60.3)	0.154	(3.91)	3.660	(5.45)	3.69	(5.50)	1000	(6.89)
2 1/2	2.875	(73.0)	0.203	(5.16)	5.880	(8.64)	5.83	(8.68)	1000	(6.89)
3	3.500	(88.9)	0.216	(5.49)	7.580	(11.29)	7.62	(11.35)	1000	(6.89)
3 1/2	4.000	(101.6)	0.226	(5.74)	9.120	(13.58)	9.21	(13.71)	1200	(8.27)
4	4.500	(114.3)	0.237	(6.02)	10.80	(16.09)	10.91	(16.25)	1200	(8.27)
5	5.563	(141.3)	0.258	(6.55)	14.63	(21.79)	14.82	(22.07)	1200	(8.27)
6	6.625	(168.3)	0.280	(7.11)	18.99	(28.29)	19.20	(28.60)	1200	(8.27)
8	8.625	(219.1)	0.277	(7.04)	24.72	(36.82)	25.57	(38.09)	1200	(8.27)
10	10.750	(273.1)	0.307	(7.80)	34.72	(51.05)	35.78	(53.29)	1000	(6.89)

ANSI C80.1&UL 6 Rigid Stell Conduit.Zinc Coated

[ANSI&UL 6]

Nominal Size	Nominal Inside Diameter		Outside Diameter		Nominal Wall Thickness		Length Without Coupling		Minimum weight of Ten Unit Lengths with Couplings Attached	
inch	inch	mm	inch	mm	inch	mm	ft&in	m	lb	kg
1/2	0.632	16.1	0.840	21.3	0.104	2.64	9'11 1/4"	3.03	79.0	35.83
3/4	0.836	21.2	1.050	26.7	0.107	2.72	9'11 1/4"	3.03	105.0	47.63
1	1.063	27.0	1.315	33.4	0.126	3.20	9'11"	3.02	153.0	69.40
1 1/4	1.394	35.4	1.660	42.2	0.133	3.38	9'11"	3.02	201.0	91.17
1 1/2	1.624	41.2	1.900	48.3	0.138	3.51	9'11"	3.02	249.0	112.95
2	2.083	52.9	2.375	60.3	0.146	3.71	9'11"	3.02	332.0	150.60
2 1/2	2.489	63.2	2.875	73.0	0.193	4.90	9'11 1/2"	3.01	527.0	239.05
3	3.090	78.5	3.500	88.9	0.205	5.21	9'11 1/2"	3.01	682.6	309.63
3 1/2	3.570	90.7	4.000	101.6	0.215	5.46	9'11 1/4"	3.00	831.0	376.94
4	4.050	102.9	4.500	114.3	0.225	5.72	9'11 1/4"	3.00	972.3	441.04
5	5.073	128.9	5.563	141.3	0.245	6.22	9'10"	3.00	1313.6	595.85
6	6.093	154.8	6.625	168.3	0.266	6.76	9'10"	3.00	1745.3	791.67

[UL6 Rigid Metal Conduit]

Nominal Size	Nominal Inside Diameter		Outside Diameter		Nominal Wall Thickness		Length Without Coupling		Minimum acceptable weight of ten lengths of finished conduit with one coupling attached to each length	
inch	inch	mm	inch	mm	inch	mm	ft&in	m	lb	kg
1/2	0.632	16.05	0.840	21.34	0.104	2.64	9'11 1/4"	3.030	79.0	35.83
3/4	0.836	21.23	1.050	26.67	0.107	2.72	9'11 1/4"	3.030	105.0	47.63
1	1.063	27.00	1.315	33.40	0.126	3.20	9'11"	3.025	153.0	69.40
1 1/4	1.394	35.41	1.660	42.16	0.133	3.38	9'11"	3.025	201.0	91.17
1 1/2	1.624	41.25	1.900	48.26	0.138	3.51	9'11"	3.025	249.0	112.95
2	2.083	52.91	2.375	60.33	0.146	3.71	9'11"	3.025	332.0	150.59
2 1/2	2.489	63.22	2.875	73.03	0.193	4.90	9'11 1/2"	3.010	527.0	239.04
3	3.090	78.49	3.500	88.90	0.205	5.21	9'11 1/2"	3.010	682.6	309.62
3 1/2	3.570	90.68	4.000	101.60	0.215	5.46	9'11 1/4"	3.005	831.0	376.94
4	4.050	102.87	4.500	114.30	0.225	5.72	9'11 1/4"	3.005	972.3	441.03
5	5.073	128.85	5.563	141.30	0.245	6.22	9'10"	2.995	1313.6	595.85
6	6.093	154.76	6.625	168.28	0.266	6.76	9'10"	2.995	1745.3	791.67

API 5L–2012 Specification for Line Pipe

Specifications		Application	Chemical Requirement(%)						Physical Requirement	
			C (MAX)	Si (MAX)	Mn (MAX)	P (MAX)	S (MAX)	Others	Tensile Strength Min MPa(Psi)	Yield Strength Min MPa(Psi)
API 5L (PSL 1)	L175(A25)	Line Pipe	0.21	0.50	0.60	—	—	—	310MPa (45000 psi)	175MPa (25400 psi)
	L175P(A25P)			—		0.030	0.030	—	310MPa (45000 psi)	175MPa (25400 psi)
	L210(A)		0.22		0. 90	0.045-0.080		—	335MPa (48600 psi)	210MPa (30500 psi)
	L245(B)		0.26		1.20	0.030		—	415MPa (60200 psi)	290MPa (42100 psi)
	L290(X42)				1.30			—	415MPa (60200 psi)	320MPa (46400 psi)
	L320(X46)				1.40			—	435MPa (63100 psi)	290MPa (42100 psi)
	L360(X52)							—	460MPa (66700 psi)	360MPa (46400 psi)
	L360(X56)							—	490MPa (71100 psi)	390MPa (56600 psi)
	L415(X60)							—	520MPa (75400 psi)	415MPa (60200 psi)
	L450(X65)				1.45	—	—	—	535MPa (77600 psi)	450MPa (65300 psi)
	L480(X70)				1.65	—	—	—	570MPa (82700 psi)	465MPa (70300 psi)
API 5L (PSL 2)	L245M(BM)	Line Pipe	0.22	—	1.20	0.025	0.015	CE(PCM) ≤0.25% CE(IIW) ≤0.43%	415-760MPa (60200-110200 psi)	245-450MPa (35500-65300 psi)
	L290M(X42M)				1.30				415-760MPa (60200-110200 psi)	290-495MPa (42100-71800 psi)
	L320M(X46M)				1.40				435-760MPa (60100-110200psi)	320-525MPa (46400-76100 psi)
	L360M(X52M)								460-760MPa (66700-110200 psi)	360-530MPa (52200-76900 psi)
	L390M(X56M)								490-760MPa (71100-110200 psi)	390-545MPa (56600-79000 psi)
	L415M(X60M)								490-760MPa (71100-110200 psi)	390-545MPa (56600-79000 psi)
	L460M(X66M)				1.45				520-760MPa (75400-110200psi)	415-565MPa (60200-81900 psi)
	L485M(X70M)				1.65				520-760MPa (82700-110200psi)	485-635MPa (70300-81900 psi)
	L555M(X80M)				1.85				625-825MPa (90600-119700psi)	555-705MPa (80500-102300 psi)
API 5CT	J-55	Casing & Tubing	—	—	—	0.03	0.03	—	517MPa(75000psi)	379-552MPa (55000-80000 psi)
	K-55		—	—	—				655MPa(95000psi)	379-552MPa (55000-80000 psi)
	N-80		—	—	—				689MPa(100000psi)	552-758MPa (80000-11000 psi)
	L-80		—	—	—				655MPa(95000psi)	552-665MPa (80000-95000 psi)
	P-110		—	—	—				862MPa(125000psi)	758-965MPa (110000-14000 psi)

Elongation Min(%)		Flattening Test	Bend Test	Hydrostatic & NDT	Others
Longitudinal Direction	Transverse Direction				
$e=625{,}000 \times \frac{A^{0.2}}{U^{0.9}}$ e:minimum elongation in 2 in(50.8mm) A:Cross - Sectional area of the testspecimen in sq in U:Specified minium ultimate tensile strength in Psi		Weld portion:3/4D The other side of weld portion: H=3/5D Weld portion:H=2/3D The other side of weld portion:1/3D Weld ductility Test $H=\frac{3.07t}{0.07+3t/D}$ less than X 52 $H=\frac{3.05t}{0.05+3t/D}$ X 52 and higher	2 ⅞ and Smaller 90° X12D —	$P=\frac{2St}{D}$ P=hydrostatic test Pressure(psi) S=fiber stress, equal to a percentage of specified min. yield strength for the various sizes as shown in the tabulation below.(psi) I=Specified thickness(inch) D=Outside Diameter (inch) and NDT	*Heat treatment on the weld Seam area *Metallographic Examination *Fracture Toughness Test(PSL2)
$e=625{,}000 \times \frac{A^{0.2}}{U^{0.9}}$ e:minimum elongation in 2 in(50.8mm) A:Cross - Sectional area of the testspecimen in sq in U:Specified minium ultimate tensile strength in Psi		D/t≥16,H=0.5D D/t<16,H=D(0.83-0.0206 D/t) 9≤D/t≤28,H=D(1.074-0.0194 D/t) HD=D(1.086-0.0163 D/t)	—	P=2(f x Yp x t)/D and NDT. P=hydrotastic test pressure in psi. f=a factor of 0.6 or 0.8,Yp=specified yield strength for the pipebody in psi t=specified wall thickness in inch D=Specified Outside diameter in inch Factor f	*Heat treatment on the weld seam area *Fracture Toughness Test

Grade	Size Designation	(percent of specified min,yield stress) standard Test Pressure	Alternate Test Pressure
A25	5 9/16	60	–
A	2 3/8and larger	60	75
B		60	75
X42-X80	5 9/16and smaller	60	75
	6 5/8and 8 5/8	75	75
	10 3/4to 18ind	85	85
	20 and larger	90	90

	size	H40	J55,K55	L80,N80
Standard Test pressures	10⅞<	0.8	0.8	0.8
	≥ 10⅞	0.6	0.6	0.8
Alternate Test pressures	All size	0.8	0.8	–

产品 PRODUCTIONS

热镀锌钢管
Galvanized Steel Pipe

镀锌管车丝
Threaded Galvanized Pipe

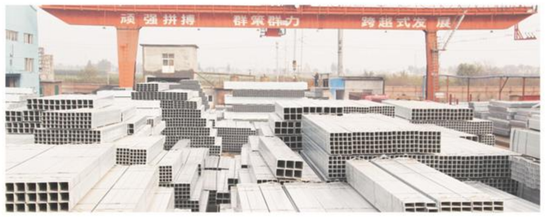
喷漆螺旋管
Painted SSAW Steel Pipe

ERW钢管
ERW Steel Pipe

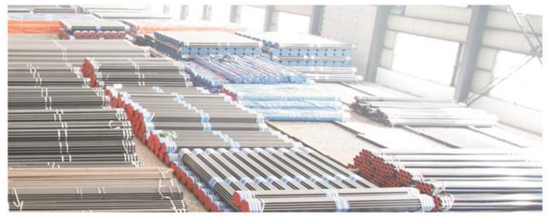
钢塑复合管
Steel-Plastic Composites Pipe

热镀锌方管
Galvanized Steel Hollow Section

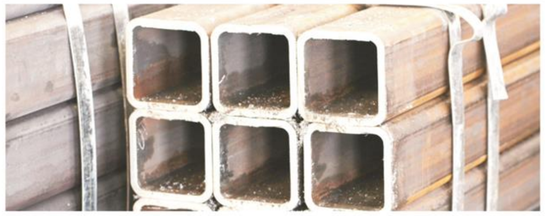
热镀锌钢管
Galvanized Steel Pipe



热镀锌钢管库存
The Stock of Galvanized SHS and RHS

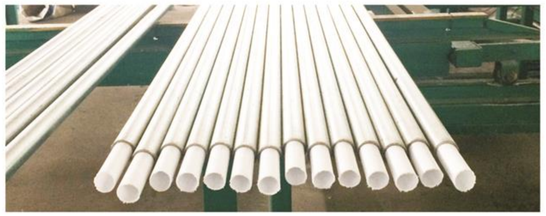


ERW焊管仓库
The Warehouse of ERW Steel Pipe

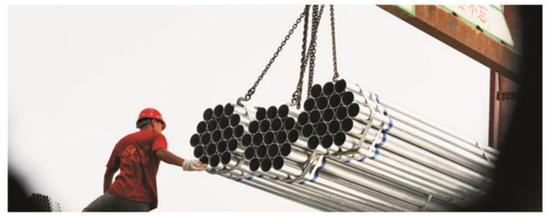


方管
Square Steel Tube

螺旋缝双面埋弧焊管
Spiral Steel Pipe



钢塑复合管
Steel-Plastic Composites Pipe



热镀锌钢管
Galvanized Steel Pipe

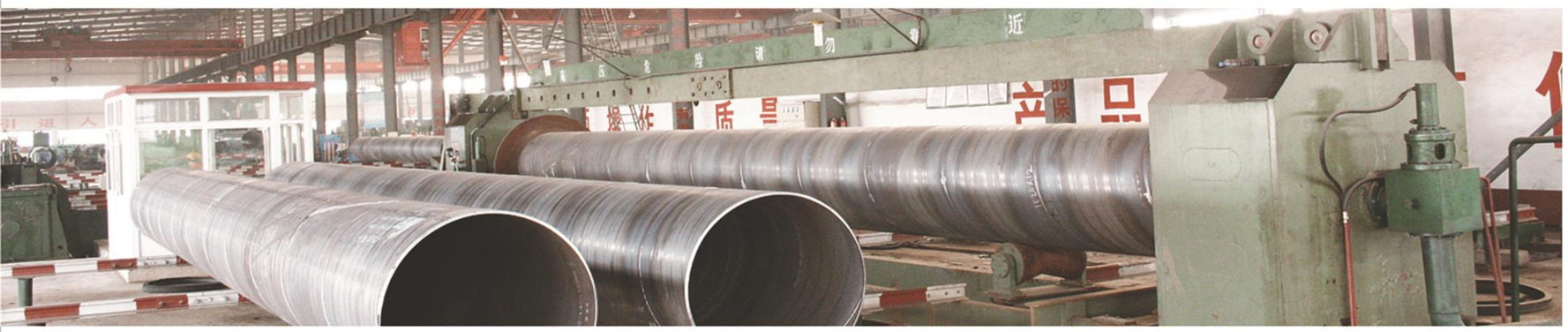
检验试验
TEST

产品品质的保障，取决于完善的质量管理体系和先进的检测设备。正大制管在严格遵循ISO9001-2008质量管理体系的同时，量身定做了适合自己的独特的质量检测方案，从原材料入厂、生产工艺、产品入库、产品运输、售后检测等各个环节都有科学严密的、苛刻的控制措施。与此同时，公司引进德国直读光谱仪、金相分析仪、电液伺服万能试验机、X光射线探伤、超声波无损探伤仪、水压机等国际国内先进的检测设备。对原材料严格把关，对产品全程监控，确保了正大“天虹“、“吉立“钢管的优良品质。

Perfect quality management system and advanced testing equipments can insure the products quality. Not only in strict compliance with ISO9001-2008 quality management system, but also ZDP made unique quality testing program. From raw material, production technology, storage, transportation, customer service and other links, ZDP has scientific control measures. At the same time, ZDP imported Germany Direct Reading Spectrometer, HX-MIAS, Electric-hydraulic Servo Universal Test Machine, X-ray Flaw Detector, Ultrasonic NDT Dector, Hydraulic press and other advanced testing equipments. Strict Control of raw material and production that ensure ZDP pipe's excellent quality.

X射线探伤
X-Ray Flaw Detection

夏比冲击试验
Charpy Impact Test



静水压试验机
Hydros Tatic Pressure Pesting Machine

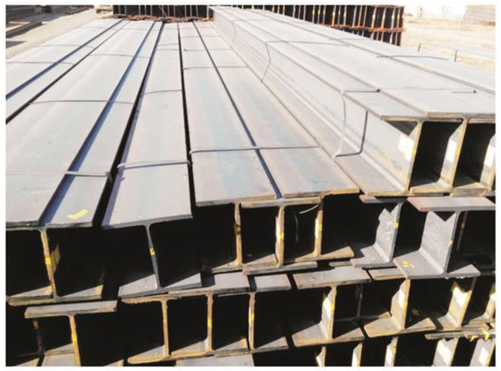
超声波无损检测
Ultrasonic NDT

化学成分分析
Chemical Composition

洛氏硬度测试仪
Digital Rockwell Hardness Tester

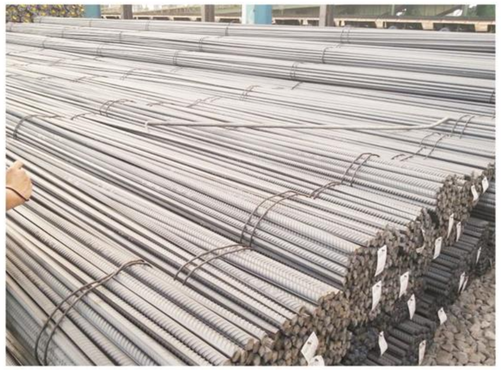
水压测试
Hyraulic Press Testing

其他钢铁产品 OTHER STEEL PRODUCTS

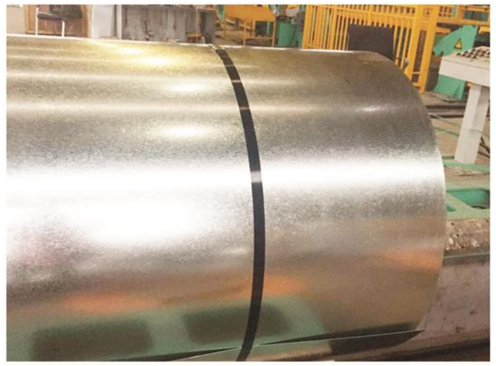


H Beam

Angel Steel



Deformed Rebar



Galvanized Steel Coil

Hot Rolled Coil

Galvanized Steel Strip

工程案例 PROJECT CASES

南京长假隧道
Nanjing Yangze River Tunnel

山西液化天然气（LNG）项目
Shanxi Liquefied Natural Gas Project

水立方
Water Cube

西安地铁一号线
Xian Subway

内蒙古煤化工项目
Inner Mongolia Coal Chemical Project

山西大运汽车制造
Shanxi Dayun Manufactring of Automobile

贵州省农村安全饮用水项目
Guizhou Rural Drinking Water

石武高铁
Shi Wu High Speed Rail

大连造船项目
Dalian Shipbuilding

河北省南水北调配套工程
The South to North Water Diversion Project

三峡工程
Three Gorges Dam

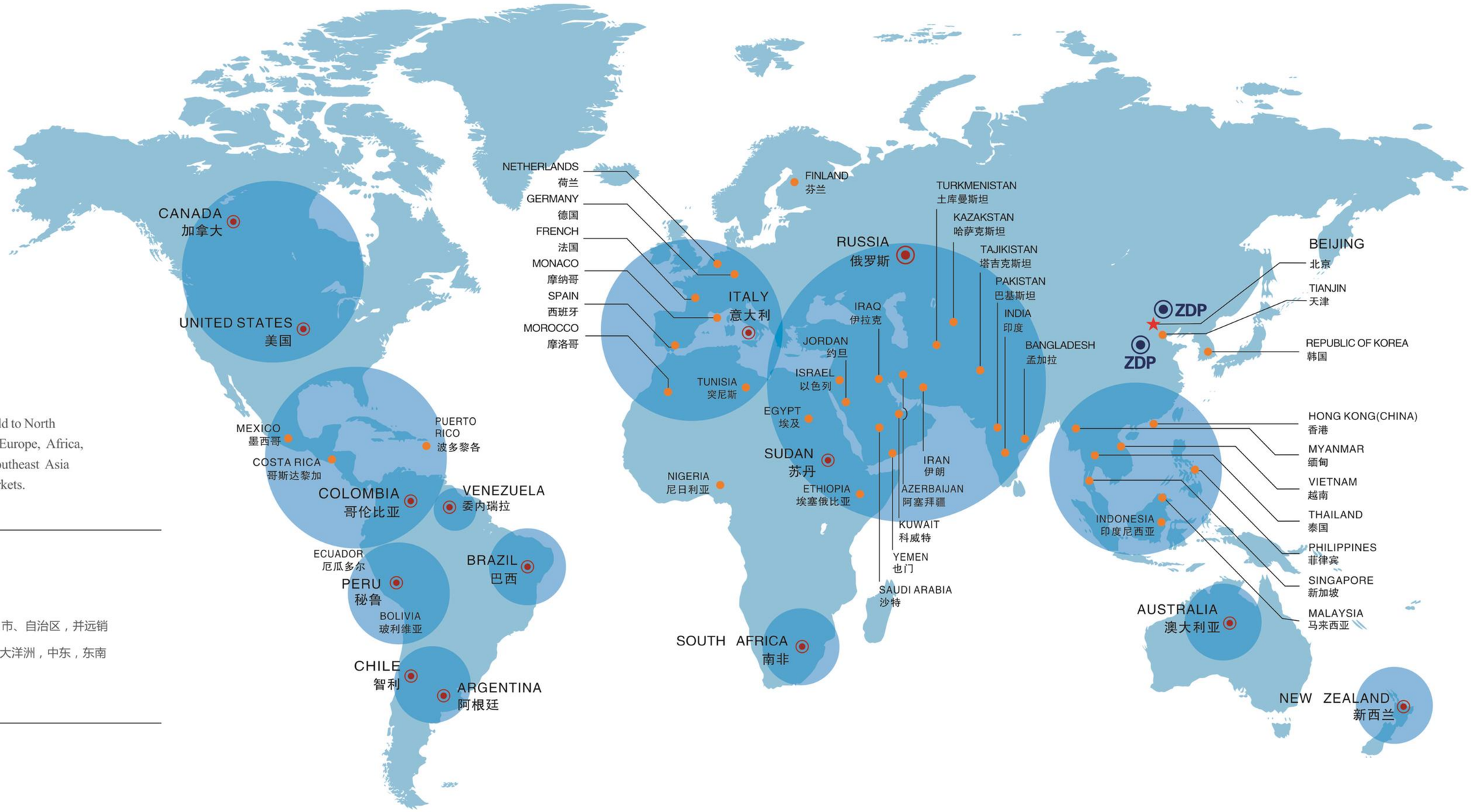
晋煤300万吨煤制造油项目
Shanxi Coal Manufacturing Oil Project

MARKET

Our products have been sold to North America, South America, Europe, Africa, Oceania, Middle East, Southeast Asia and other international markets.

市场分布

公司产品销往国内28个省、市、自治区，并远销北美，南美，欧洲，非洲，大洋洲，中东，东南亚等国家和地区。



机械制造
Mechanical Structure

建筑行业
Construction

脚手架
Scaffolding

农业大棚
Greenhouse

汽车制造
Automotive Industry

桥梁建设
Bridge Building