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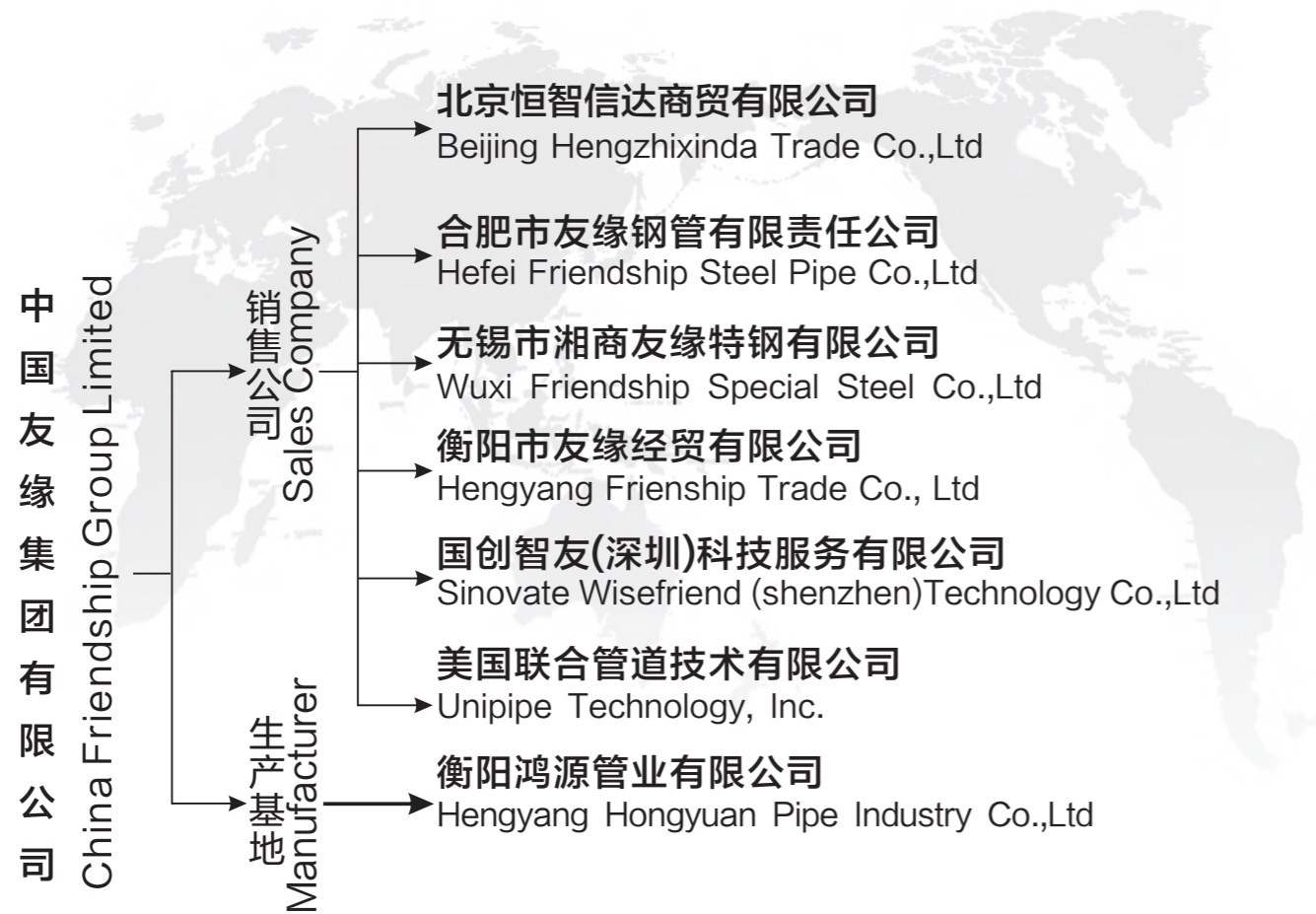
CHINA FRIENDSHIP GROUP



产品介绍

Product Introduction





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我们的品牌:
Our Brand:



销售主张: 我们只做钢管

Selling proposition: we only make steel pipes

愿景: 成为全球无缝钢管服务细分市场引领者

Vision: Leader in global niche market of seamless steel pipe

价值观: 毅力 包容 改变

Values: Persistence, Inclusiveness, Change

使命: 让客户省心, 创造价值

Mission: Create value for customers



友缘集团是一家专业生产经营无缝钢管、优钢等产品的综合服务型集团公司。始建于1999年，集团目前下属企业有一家钢管制造公司和六家全资销售公司：衡阳鸿源管业有限公司、合肥市友缘钢管有限责任公司、北京恒智信达商贸有限公司、无锡市湘商友缘特钢有限公司、衡阳市友缘经贸有限公司、国创智友(深圳)科技服务有限公司、美国联合管道技术有限公司。现有员工200余人，其中各类专业技术人员50人，营业面积超30000平方米。是华菱衡钢、中信特钢、宝武集团、中石油、中海油、中船重工、中国中车、中国中盐、中国一重、国家电网、威德福、斯伦贝谢、中材科技等单位入网合作伙伴。

集团抓住行业发展机遇，实行积极稳健的发展战略。2010年集团与华菱衡钢合资成立衡阳鸿源管业有限公司，目前投产 ϕ 325~1200mm大口径热扩无缝钢管生产线四条、 ϕ 102~900mm大口径精密冷拔无缝钢管生产线二条、 ϕ 17~220mm小口径精轧无缝钢管生产线四条、热处理生产线一条，表面处理生产线四条，酸洗磷化皂生产线一条，无损检测线一条，工艺装备具同行业先进水平。公司已顺利取得API Q1、ISO9001:2015体系认证、API-5CT、API-5L、TS产品认证、ABS船级社认证、BV船级社认证、欧盟CE安全指令、ISO 14001:2015环境管理体系、ISO45001:2018职业健康安全管理体系。年生产加工能力10万吨。实现了由之前单纯的销售型企业向大型综合服务型企业的转变。

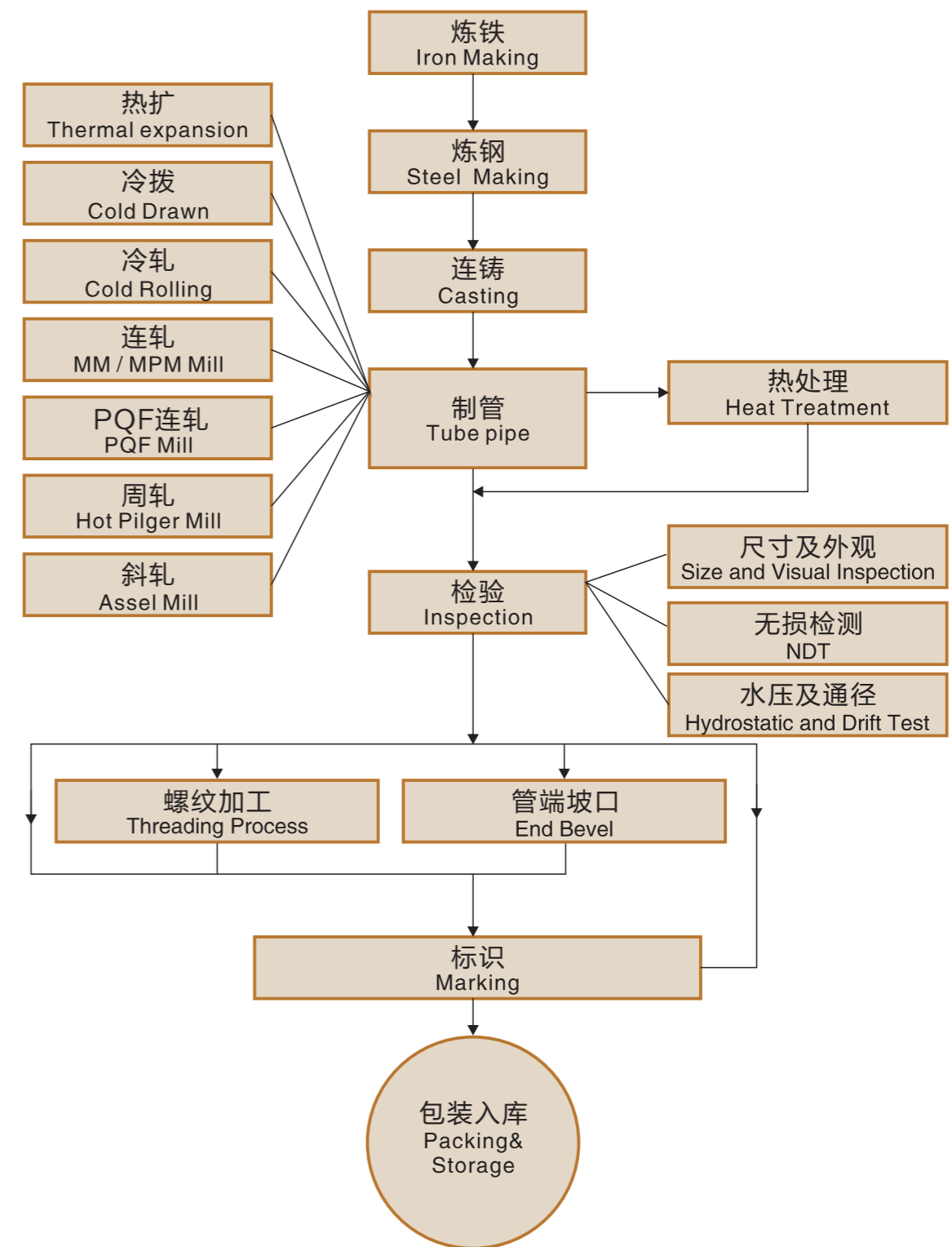
站在新的起点，友缘集团的目标是成为全球无缝钢管细分市场引领者，为客户提供更为完善，更为便捷的配套服务。

Friendship Group provides comprehensive service , specializing in the production and operation of seamless steel pipe, steel products. Founded in 1999, the group currently has six wholly-owned trading companies and one factory: Hefei Friendship Steel pipe Co.,Ltd. Beijing HengZhiXinDa Trade Co., Ltd. WuXi Friendship Trade Co., Ltd. Hengyang Friendship Trade Co., Ltd. Sinovate Wisefriend (shenzhen) Technology Co.,Ltd. Unipipe Technology INC. Hengyang Hongyuan Pipe Industry Co., Ltd. There are more than 200 employees, including 50 technical professionals, with a business area of over 30000 square metres.Group has been made the VALIN.CITIC PACIFIC SPECIAL STEEL,BAOWU GROOP,CNPC,SINOPEC,CNOOC,CSIC, CRRC,CHINA SALT, SFHI,CFHI,STATE GRID,WEATHERFORD,SCHLUMBERGER,SINOM Aand other units of the Internet supplier qualification.

The group seizes the opportunities of industry development and grow up strong. In 2010, we set up a joint venture with Hengyang Valin Steel Tube Co., Ltd: HengyangHongyuan Pipe Industry Co.,Ltd.The factory build 4 hot expansion production line (OD 219mm~1200mm, wt:6mm~100mm),2 Cold drawn production line(OD 102mm-900mm,WT:6mm-60mm),4 cold rolled production line(OD 17mm~219mm, WT: 3mm-30mm) and 1 heat-treatment production line with total capacity of 100,000 tons per year. Four Surface freatment production Lines, one acid pickLing line one Phosphating Line, one saponification Line and one NOE festing Ling,It has independent lab and can do NDT test, Straightness, cutting, Painting, Internal and external grinding on line.The factory has passed the Quality Management Certification API Q1,ISO9001:2015, API 5CT,API 5L, CE ,ISO14001:2015,EMS,ISO45001:2018, TS certificate and ABS BV certificate. With an annual production and processing capacity of 100,000tons, the company has realized the transformation from a simple sales enterprise to a large-scale comprehensive service enterprise.

Standing at a new starting point, Friendship group aims to build a world-class professional seamless steel pipe enterprise to provide customers with perfect and more convenient supporting services.

工艺流程 Process Flow Chart



技术装备 Technical Facilities

管材生产线 Tube & Pipe Production Lines

EZG-11B 800吨液压二步推进制管机: $\phi 559\text{mm} \sim \phi 1200\text{mm}$
 EZG-11B hot-expand mill: $\phi 559\text{mm} \sim \phi 1200\text{mm}$
 EZG-11B 500吨液压二步推进制管机: $\phi 273\text{mm} \sim \phi 830\text{mm}$
 EZG-11B hot-expand mill: $\phi 273\text{mm} \sim \phi 830\text{mm}$
 EZG-11B 300吨液压二步推进制管机: $\phi 219\text{mm} \sim \phi 559\text{mm}$
 EZG-11B hot-expand mill: $\phi 219\text{mm} \sim \phi 559\text{mm}$
 JLB1250T精密冷拔机组: $\phi 219\text{mm} \sim \phi 860\text{mm}$
 JLB1250T-14500 precision hydraulic cold drawing mill: $\phi 325\text{mm} \sim \phi 1200\text{mm}$
 JLB600T精密冷拔机组: $\phi 102\text{mm} \sim \phi 559\text{mm}$
 JLB600T precision hydraulic cold drawing mill: $\phi 102\text{mm} \sim \phi 559\text{mm}$
 LG-50B-H 冷轧机组: $\phi 17\text{mm} \sim \phi 60\text{mm} \times 2\text{mm} \sim 8\text{mm}$
 LG-50B-H Cold rolling Mill: $\phi 17\text{mm} \sim \phi 60\text{mm} \times 2\text{mm} \sim 8\text{mm}$
 LG-80-H 冷轧机组: $\phi 28\text{mm} \sim \phi 105\text{mm} \times 3\text{mm} \sim 30\text{mm}$
 LG-80-H Cold rolling Mill: $\phi 28\text{mm} \sim \phi 105\text{mm} \times 3\text{mm} \sim 30\text{mm}$
 LG-90-H 冷轧机组: $\phi 60\text{mm} \sim \phi 121\text{mm} \times 3\text{mm} \sim 35\text{mm}$
 LG-90-H Cold rolling Mill: $\phi 60\text{mm} \sim \phi 121\text{mm} \times 3\text{mm} \sim 35\text{mm}$
 LG-150-H 冷轧机组: $\phi 70\text{mm} \sim \phi 220\text{mm} \times 6\text{mm} \sim 40\text{mm}$
 LG-150-H Cold rolling Mill: $\phi 70\text{mm} \sim \phi 220\text{mm} \times 6\text{mm} \sim 40\text{mm}$
 $\phi 89\text{m}$ 连轧机组 $\phi 51\text{mm} \sim \phi 127\text{mm} \times 3.5\text{mm} \sim 12\text{mm}$
 $\phi 89\text{m}$ MM Mill $\phi 51\text{mm} \sim \phi 127\text{mm} \times 3.5\text{mm} \sim 12\text{mm}$
 $\phi 180\text{m}$ 连轧管机组 $\phi 73\text{mm} \sim \phi 180\text{mm} \times 4\text{mm} \sim 22\text{mm}$
 $\phi 180\text{m}$ PQF Mill $\phi 73\text{mm} \sim \phi 180\text{mm} \times 4\text{mm} \sim 22\text{mm}$
 $\phi 219\text{m}$ 三辊轧管机组 $\phi 68\text{mm} \sim \phi 260\text{mm} \times 8\text{mm} \sim 55\text{mm}$
 $\phi 219\text{m}$ Assel Mill $\phi 68\text{mm} \sim \phi 260\text{mm} \times 8\text{mm} \sim 55\text{mm}$
 $\phi 340\text{m}$ 连轧管机组 $\phi 139\text{mm} \sim \phi 368\text{mm} \times 5\text{mm} \sim 42\text{mm}$
 $\phi 340\text{m}$ MPM Mill $\phi 139\text{mm} \sim \phi 368\text{mm} \times 5\text{mm} \sim 42\text{mm}$
 $\phi 720\text{m}$ 周期轧管 $\phi 273\text{mm} \sim \phi 720\text{mm} \times 8\text{mm} \sim 120\text{mm}$
 $\phi 720\text{m}$ Hot Pilger Mill $\phi 273\text{mm} \sim \phi 720\text{mm} \times 8\text{mm} \sim 120\text{mm}$

螺纹加工线 Threading process Line

车丝线 $\phi 60.3\text{mm} \sim \phi 508\text{mm}$
 Threading process Line $\phi 60.3\text{mm} \sim \phi 508\text{mm}$

热处理生产线 Heat Treatment Lines

3.6m台车炉 $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 3.6mGWL-TC $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 2.6m台车炉 $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 2.6mWL-TC $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 19m 均温炉 $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 19m Mean Temperature furnace $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 多功能热处理炉 $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 Multi-function heat treatment furnace $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 大口径钢管感应加热炉 $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 Large diameter induction heating furnace $\phi 300\text{mm} \sim \phi 1000\text{mm}$
 小口径钢管感应加热炉 $\phi 50\text{mm} \sim \phi 219\text{mm}$
 Small diameter induction heating furnace $\phi 50\text{mm} \sim \phi 219\text{mm}$
 $\phi 89$ 油管热处理线 $\phi 48.3\text{mm} \sim \phi 127.0\text{mm}$
 $\phi 89$ Tubing Heat Treatment Line $\phi 48.3\text{mm} \sim \phi 127.0\text{mm}$
 $\phi 89\text{mm}$ 油管中频热处理线 $\phi 60.3\text{mm} \sim \phi 114.3\text{mm}$
 $\phi 89\text{mm}$ Tubing Intermediate Frequency Heat Treatment Line $\phi 60.3\text{mm} \sim \phi 114.3\text{mm}$
 $\phi 340$ 1#套管热处理线 $\phi 139.7\text{mm} \sim \phi 376\text{mm}$
 $\phi 340$ Casing Heat Treatment Line1 $\phi 139.7\text{mm} \sim \phi 376\text{mm}$
 $\phi 340$ 2#套管热处理线 $\phi 73\text{mm} \sim \phi 244.5\text{mm}$
 $\phi 340$ Casing Heat Treatment Line2 $\phi 73\text{mm} \sim \phi 244.5\text{mm}$
 $\phi 180$ 热处理线 $\phi 114\text{mm} \sim \phi 219\text{mm}$
 $\phi 180$ Heat Treatment Line $\phi 114\text{mm} \sim \phi 219\text{mm}$
 $\phi 720$ 热处理线 $\phi 159\text{mm} \sim \phi 720\text{mm}$
 $\phi 720$ Heat Treatment Line $\phi 159\text{mm} \sim \phi 720\text{mm}$
 特大口径 (1米)正火退火调质热处理线
 Heat Treatment Line for Big size Diameter pips (OD1000mm and over)



管线管 Product Mix

管线管产品介绍 Line Pipe Specification and Application

外径: 17.00~1200.00mm OD: 17.00~1200.00mm
 壁厚: 2.00mm~120.00mm WT: 2.00mm~120.00mm
 品种: 输油输气管及海底管线 Oil&Gas Transportation and offshore line pipe

Line Pipe



1000吨校直机
YF1000 Four-Pillars Hydraulic straightness Machine

酸洗、磷化、皂化生产线
Acid Pickling, phosphating, and saponification line

Φ180PQR连轧管机组
Φ180 PQR Mill



Φ17-Φ219 冷轧管机组
Φ17-Φ219 Cold rolling Mill

螺纹加工生产线
Threading Lines

内外抛丸机
Internal and external shot blasting machine



JLB1250T-14500精密冷拔机组
JLB1250T-14500 Precision hydraulic cold drawing mill

EZG-II B 830X60液压二步推进制管机
EZG-II B Φ830 × 60 hot-expanded mill

API 系列管线管 API 5L Line Pipe				低温作业用管 Low temperature series
PSL1	PSL2			ASTM A333 ASME SA333
	一般服役条件 General service	海上服役条件 Offshore service	酸性服役条件 Sour service	
B/L245	BN/L245N	BNO/L245NO	BNS/L245NS	Gr3 Gr6 Gr8
	BQ/L245Q	BQO/L245QO	BQS/L245QS	
X42/L290	X42N/L290N	X42NO/L290NO	X42NS/L290NS	
	X42Q/L290Q	X42QO/L290QO	X42QS/L290QS	
X46/L320	X46N/L320N	X46NO/L320NO	X46NS/L320NS	
	X46Q/L320Q	X46QO/L320QO	X46QS/L320QS	
X52/L360	X52N/L360N	X52NO/L360NO	X52NS/L360NS	
	X52Q/L360Q	X52QO/L360QO	X52QS/L360QS	
X56/L390	X56N/L390N	X56QO/L390QO	X56QS/L390QS	
	X56Q/L390Q			
X60/L415	X60N/L415N	X60QO/L415QO	X60QS/L415QS	
	X60Q/L415Q			
X65/L450	X65N/L450N	X65QO/L450QO	X65QS/L450QS	
X70/L485	X70Q/L485Q	X70QO/L485QO	X70QS/L485QS	
X80/L555	X80N/L555N	X80QO/L555QO		
X90/L625	X90Q/L625Q	X90QO/L625QO		
X100/L690	X100Q/L690Q	X100QO/L690QO		

管线管可执行的其它标准 Other Specifications of Line Pipe

国内标准 Domestic Specification: GB/T9711
 国际标准 International Specification: ISO3183
 加拿大标准 Canadian Specification: CSA Z245.1
 科威特标准 Kuwait Specification: KOC-MS-001 RT.1 REV.2.(2009), KOC-MS-018
 挪威标准 Norway Specification: DNVGL-ST-F101-2017
 道达尔标准 Total Specification: TOTAL GS EP PLR 201
 其它标准 And/Or other Specifications

API 系列油管 API Tubing

规格 Size		钢级及钢号 Steel grade & connection type					执行标准 Specification
外径 mm(inch) ODmm(inch)	壁厚/mm WT/mm	J55、K55	L80-1Cr/3Cr 9Cr/13Cr	N80-1、 N80Q、R95	C90、C110、 T95	P110、 P110-13Cr	
42.16(1.660")	3.18	N/U	N/U	N/U	N/U	N/U	API SPEC 5CT
	3.56	N/U	N/U	N/U	N/U	N/U	
	4.85	N	N	N	N	N	
48.26(1.900")	3.18	N/U	N/U	N/U	N/U	N/U	
	3.68	N/U	N/U	N/U	N/U	N/U	
	5.08	N/U	N/U	N/U	N/U	N/U	
	6.35	N	N	N	N	N	
	7.62	N	N	N	N	N	
60.32(2-3/8")	4.24	N/U	N/U	N/U	N/U	N/U	
	4.83	N/U	N/U	N/U	N/U	N/U	
	6.45	N/U	N/U	N/U	N/U	N/U	
	7.49	N/U	N/U	N/U	N/U	N/U	
73.02(2-7/8")	8.53	N	N	N	N	N	
	5.51	N/U	N/U	N/U	N/U	N/U	
	7.01	N/U	N/U	N/U	N/U	N/U	
	7.78	N/U	N/U	N/U	N/U	N/U	
	8.64	N/U	N/U	N/U	N/U	N/U	
89.90(3-1/2")	9.96	N/U	N/U	N/U	N/U	N/U	
	11.18	N	N	N	N	N	
	5.49	N/U	N/U	N/U	N/U	N/U	
	6.45	N/U	N/U	N/U	N/U	N/U	
	7.34	N	N	N	N	N	
101.60(4")	9.52	N	N	N	N	N	
	10.92	N	N	N	N	N	
	12.09	N	N	N	N	N	
	13.64	N	N	N	N	N	
	5.74	N/U	N/U	N/U	N/U	N/U	
	6.65	N/U	N/U	N/U	N/U	N/U	
114.30 (4-1/2")	8.38	N/U	N/U	N/U	N/U	N/U	
	10.54	N/U	N/U	N/U	N/U	N/U	
	12.70	N/U	N/U	N/U	N/U	N/U	
	15.49	N	N	N	N	N	
	6.88	N/U	N/U	N/U	N/U	N/U	
	8.56	N/U	N/U	N/U	N/U	N/U	
	9.65	N/U	N/U	N/U	N/U	N/U	

注:N-不加厚带螺纹和接箍 (NU) ; U-外加厚带螺纹和接箍 (EU) . Note:N-NU; U-EU

API 系列套管 API Casing

规格 Size		钢级及钢号 Steel grade & connection type						执行标准 Specification
外径mm(inch) ODmm(inch)	壁厚/mm WT/mm	J55、K55	L80-1/3Cr 9Cr/13Cr	N80-1、N80Q、 R95	C90、C110、 T95	P110、 P110-13Cr	Q125	
114.30 (4-1/2")	5.21	S	S	S	S	S	S	API SPEC 5CT
	5.69	S	S	S	S	S/B	S/B	
	6.35	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	7.37	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	8.56	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
127.00(5")	5.59	S	S	S	S	S	S	
	6.43	S	S	S	S	S/B	S/B	
	7.52	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	9.19	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	L/B	
	10.10	L/B	L/B	L/B	L/B	L/B	L/B	
	12.14	L/B	L/B	L/B	L/B	L/B	L/B	
	12.70	L/B	L/B	L/B	L/B	L/B	L/B	
139.70 (5-1/2")	6.20	S	S	S	S	S	S	
	6.98	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	7.72	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	9.17	L/B	L/B	L/B	L/B	L/B	L/B	
168.28 (6-5/8")	10.54	L/B	L/B	L/B	L/B	L/B	L/B	
	7.32	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	8.94	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	10.59	L/B	L/B	L/B	L/B	L/B	L/B	
117.80(7")	12.06	L/B	L/B	L/B	L/B	L/B	L/B	
	6.91	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	8.05	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	9.19	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	10.60	L/B	L/B	L/B	L/B	L/B	L/B	
	11.51	L/B	L/B	L/B	L/B	L/B	L/B	
	12.65	L/B	L/B	L/B	L/B	L/B	L/B	
193.67 (7-5/8")	13.72	L/B	L/B	L/B	L/B	L/B	L/B	
	8.33	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	9.52	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	10.95	L/B	L/B	L/B	L/B	L/B	L/B	
	12.70	L/B	L/B	L/B	L/B	L/B	L/B	
	14.27	L/B	L/B	L/B	L/B	L/B	L/B	
	15.11	L/B	L/B	L/B	L/B	L/B	L/B	
219.08 (8-5/8")	15.88	L/B	L/B	L/B	L/B	L/B	L/B	
	6.71	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	7.72	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	8.94	S/L	S/L	S/L	S/L	S/L/B	S/L/B	
	10.16	L/B	L/B	L/B	L/B	L/B	L/B	
	11.43	L/B	L/B	L/B	L/B	L/B	L/B	
	12.70	L/B	L/B	L/B	L/B	L/B	L/B	
	14.15	L/B	L/B	L/B	L/B	L/B	L/B	

另: 我公司除可生产以上表格中所列的成品油套管外, 还可提供平端管体. Ps: besides above mentioned products, plain end products either

API 系列套管 API Casing

规格 Size		钢级及钢号 Steel grade & connection type						执行标准 Specification
外径mm(inch) ODmm(inch)	壁厚/mm WT/mm	J55、K55	L80-1/3Cr 9Cr/13Cr	N80-1、N80Q、 R95	C90、T95、 C110	P110 P110-13Cr	Q125	
244.48 (9-8/5")	8.94	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	API SPEC 5CT
	10.03	S/L/B	L/B	L/B	L/B	L/B	L/B	
	11.05	L/B	L/B	L/B	L/B	L/B	L/B	
	11.99	L/B	L/B	L/B	L/B	L/B	L/B	
	13.84	L/B	L/B	L/B	L/B	L/B	L/B	
	15.11	L/B	L/B	L/B	L/B	L/B	L/B	
273.05 (10-3/4")	8.89	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	10.16	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	11.43	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	12.57	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	13.84	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
298.45 (11-3/4")	15.11	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	9.65	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	10.92	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
339.72 (13-3/8")	12.19	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	13.06	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
	8.38	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
406.00(16")	16.66	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	S/L/B	
508.00(20")	11.13	S/L	S/L	S/L	S/L	S/L	S/L	
610.00(24")	12.70	B	B	B	B	B	B	
	16.66	B	B	B	B	B	B	

Note:S-SC;L-LC;B-BC

钻杆管 Drill Tube & Pipe

序号 No.	规格 Size		钢级 Steel grade	加厚形式 Type	执行标准 Specification
	外径mm(inch) ODmm(inch)	壁厚/mm WT/mm			
1	60.32(2-3/8")	7.11	E、X、G、S	EU	API SPEC 5DP
2	70.02(2-7/8")	9.19	E、X、G、S	EU	
3	88.90(3-1/2")	6.45	E	EU	
		9.35	E、X、G、S	EU	
		11.40	E X、G、S	EU	
4	101.60(4")	8.38	E、X、G、S	EU、IU	
5	114.30(4-1/2")	6.88	E	EU、IU	
		8.56	E、X、G、S	EU、IEU	
		10.92	E、X、G、S	IU	
6	127.00(5")	9.19	E、X、G、S	IEU	
		12.70	E、X、G、S	IEU	
7	139.70(5-1/2")	9.17	E、X、G、S	IEU	
		10.54	E、X、G、S	IEU	
8	168.28(6-5/8")	8.38	E、X、G、S	IEU	
		9.19	E、X、G、S	IEU	

非API系列油井管 NON-API OCTG

品种 Variety	规格 Size		钢级 Steel grade	执行标准 Specification	典型用途 Typical application
	外径(mm) OD(mm)	壁厚/mm WT/mm			
抗挤毁套管系列 Collapse-resistant casing	26.1~762	5.21~31.80	HS80T\HS80TT	HK35-2019 或技术协议 HK35-2019 or technical agreement	用于岩盐层、深井等较复杂的地质条件 Rock-salt layer, deep and complex geological conditions
			HS90T\HS90TT		
			HS95T\HS95TT		
			HS110T\HS110TT		
			HS125T\HS125TT		
			HS140T\HS140TT		
			HS150T\HS150TT P110T		
抗H ₂ S油套管系列 H ₂ S-resistant casing and tubing	38.1~762	5.21~31.80	HS80S\HS80SS	HK34-2019 或技术协议 HK34-2019 or technical agreement	用于含H ₂ S的环境 Environment containing H ₂ S
			HS90S\HS90SS		
			HS95S\HS95SS		
			HS110S\HS110SS		
			HS110S\HS110SS HS125S\HS125SS		
抗CO ₂ +H ₂ S油套管系列 CO ₂ +H ₂ S-resistant casing and tubing	38.1~762	5.21~31.80	HS80S/SS-3Cr	HK33-2019 或技术协议 HK33-2019 or technical agreement	用于含CO ₂ +H ₂ S的环境 Environment containing CO ₂ and H ₂ S
			HS90S/SS-3Cr		
			HS95S/SS-3Cr HS110S-3Cr		
抗CO ₂ 腐蚀油套管 CO ₂ Corrosion-resistant casing and tubing	48.3~508	4.83~26.24	HS80-3Cr	HK33-2019 或技术协议 HK33-2019 or technical agreement	用于含CO ₂ 的环境 Environment containing CO ₂
			HS90-3Cr		
			HS95-3Cr		
			HS110-3Cr		
			HS80-13Cr		
			HS85-13Cr		
			HS95-13Cr HS95S-13Cr HS110S-13Cr		
抗硫化氢抗挤毁套管系列 H ₂ S and collapse-resistant casing	48.30~762	2.61~31.88	HS80TS	技术协议 Technical agreement	用于硫化氢腐蚀，外压挤毁压力大的环境 Environment with H ₂ S corrosion and large collapse pressure
			HS90TS		
			HS950TS		
			HS100TS		
			HS110TS P110TS		
低温油套管 Casing for low-temperature environment	26.10~762	5.21~31.80	HS80L	技术协议 Technical agreement	用于低温环境 Low temperature environment
			HS90L		
			HS95L HS110L		
热采井套管系列 Thermal recovery well casing	114.3~762	5.21~26.24	HS80H	HK29-2019 或技术协议 HK29-2019 or technical agreement	用于稠油热采耐热环境 Heavy oil and heat-resistant environment
			HS90H		
			HS95H		
			HS110H		
			HS90HT-3Cr P110TS		
深井用高强度高韧性套管系列 High strength and high tenacity casing for deep well	26.1~762	5.21~28.58	HS140	HK36-2019或技术协议 HK36-2019 or technical agreement	用于岩盐层、超深井等较复杂的地质条件 Rock-salt layer deep well, ultra-deep well and other complex geological conditions
			HS150		
			HS155		

HS 系列特殊螺纹接头 HS premium connection

海洋工程用管 Ocean Engineering tube & pipe

扣型 connection	规格范围 Size	结构特点 Features	典型用途 Typical application
HSM-1	60.32~339.72	改进型偏梯形螺纹; 锥面金属/金属密封; 逆向扭矩台肩 Improved buttress thread ,Reverse torque shoulder,Cone metal/metal seal	可用于深井, 高压气井等复杂工况 High pressure gas well and other complex working condition
HSM-2	60.32~339.72	勾形螺纹; 优化的螺纹导向面间隙和扭矩台肩结构; 逆向台肩; 锥面金属/金属密封; Hook thread ,Improved clearance on thread guiding surface and torque shoulder; Reverse shoulder,Cone metal/metal seal	可用于超深井,大位移井,高温高压气井等复杂工况 Ultra deep well; large extended-reach Well; high temperature and high pressure gas well and other complex working conditions
HSM-2-HC	127.00~244.48	勾形螺纹; 优化的螺纹导向面间隙和扭矩台肩结构; 逆向台肩; 锥面金属/金属密封; Hook thread ;Improved clearance on thread guiding surface and torque shoulder; Reverse shoulder;Cone metal/metal seal; Increased shoulder thickness	可应用于超深井,高温高压气井, 斜井水平井及需要作业管柱旋转等复杂工况 Ultra Deep,high temperature and high Pressure gas well ,incline well , horizontal well,working conditions requiring working string rotation and other complex working conditions
HSG3	127.00~508.00	优化的勾形螺纹, 增大导向面正角; 组合密封结构设计 Improved hook thread and increased positive angle of guiding surface ;Design of combined seal structures	可应用于超深井,高温高压气井, 以及斜井、水平井, 大位移井等复杂工况 High temperature and high Pressure well , horizontal well,large extended-reach well and other complex working conditions
HSTS	60.32~114.43	两级圆柱螺纹; 双台肩设计; 金属/金属密封结构; 内外加厚直连型 Double cylinder thread ;Double-shoulder; metal/metal sealing structure;flush joint with upseting inside and outside	适用于深井,高压井, 水平井, 酸性气井等苛刻服务环境 Deep Well, High Pressure well , horizontal well,sour gas and other harsh service environment
HSFJ	73.02~298.45	勾形螺纹; 接头外径与管体外径相同; 内、外双重锥面密封结构; 平端直连型; Hook thread OD of connection the same as that of pipe body;Inside and outside double-cone seal structure;Flush joint	适于对环空间间隙和连接强度有特殊要求的井况 Well conditions with special requirements for annular clearance and connection strength
HSG3-FJ	177.80~339.72	优化的勾形螺纹, 增大导向正面; 外锥向密封, 内组合密封结构, 厚壁直连型 Improved hook thread for increased positive angle of guiding surface;Outside cone seal;inside combination seal; Thick-walled flush joint	可应用于盐岩层、膏岩层以及斜井、水平井、大位移井以及对环空间间隙有要求等复杂井况 Salt-rock layer,gypsum-rock layer, inclined well,horizoned well laryer extended-reach well,well conditionswith requirement for annular clearance and other complex well conditions
HSQR	339.72~508.00	大角度导向面; 大螺距; 大锥度; 螺纹密封 Large-angle guiding surface; Large thread distance; Large cone;Thread seal	适于要求快速上扣的导管、表管、技套等 Guiding pipe,surface casing ,intermediate casing and other pipes requiring quick make-up
HSN	114.30~339.72	采用API偏梯螺纹结构, 可与API BC螺比试互换; 螺纹密封; 内直角台肩; 内平滑设计 API buttress thread connection interchangeable with API BC;Thread seal; Inner right angle shoulder;Inner flush	可用于旋转尾管固井以及需要与API BC螺纹互换的井况 Rotary tail pipe for cementing and well conditions requiring the connection to be interchanged with API BC connection

产品 Product	规格 Size		钢级 Steel grade	执行标准 Specification	特点 Features	用途 Application
	外径(mm) OD(mm)	壁厚(mm) WT(mm)				
支撑管 Bracking pipe	114.3-900	5-120	X52Q,X65Q X70Q,X80Q X90Q,X100Q	API SPEC 5L	以较低C含量和较高Mn的成分组合保障产品的基本强度; 韧性可与可焊性指标; 利用Nb Ti等元素的微合金强化原理提高材料的强韧性指标与性能稳定性 To guarantee the basic strength, toughness and welding performance of the product by the composition of relative low C and performance stability by using the micro alloy strengthening principle of elements Nb and Ti	自升式海洋钻井平台 Jack-up ocean oil rig
钻井隔水管 Drilling riser	324-1200	10-120	X52Q X65Q X80Q	API SPEC 5L	管材能承受挤毁压力和提升载荷内外表面耐磨损性能 The wear resistance of the inner and outer surfaces of the pipe can withstand crushing pressure and lifting load	用于隔绝海水作用 To insulate seawater
高压泥浆循环管 High-pressure mud circulation pipe	16.8-900	5-120	4130	ASTM A519	采用高压循环钢管满足大承载力需求, 有耐腐蚀性 High-pressure circulation pipe can satisfy large bearing capacity, offer corrosion resistance	高压循环注浆管 High-Pressure Circulating grouting pipe

射孔枪管 Perforation Gun

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application	常用规格 Normal size
	外径mm ODmm	壁厚/mm WT/mm				
射孔枪管 Perforation Gun	51.00~177.80	5.00~15.00	42KSI 110KSI 115KSI 125KSI 130KSI 140KSI 150KSI 32CrMo4 26CrMo4S 22CrMo8V	GB/T 20489 YB/T4371-2014 CAS 4189 Q/OHAD005-2015 FMJSXY-201601 REV.A 993.13 REV.N	石油套管射孔枪用 Oil casing perforation gun	50×5 60×5 69.9×7.92 73.02×5.51 79.02×9.19 76×7.5 79.4×7.95 86×9 88.9×6.45 88.9×8.8 95×9 101.6×9 114×10 127×11 177.8×12.65

锅炉用无缝钢管 Boiler Products

品种 Variety	Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application	
	外径mm ODmm	壁厚/mm WT/mm				
低中压锅炉管 Low-Medium Pressure Boiler	19.00~1200.00	2.00~120.00	10	GB/T3087	低中压锅炉受热管、集箱、蒸汽导管 Low and medium preessure boilerheating tube & pipe ,container & steam piping	
			20			
高压锅炉管 High pressure boiler tube	26.10~1016.00	2.00~120.00	20G	GB/T5310	用于工作压力大于9.8MPa 工作温度450~650C的受热 管、集箱、蒸汽管道 Heating tube & pipe,container &steam piping at work preessure >9.8MPa and temperature 450-650C	
			20MnG			
			25MnG			
			15MoG			
			20MoG			
			12CrMoG			
			15CrMoG			
			12Cr2MoG			
			12Cr1MoVG			
			10Cr9Mo1VNbN			
			10Cr9MoW2VNbBN			
			15Ni1MnMoNbCu			
			SA106A/B/C			ASME SA106 ASME SA192 ASME SA209 ASME SA210 ASME SA213 ASME SA335
			SA192			
			T1/T1A			
			SA210A-1/C			
			T/P2			
			T/P5			
			T/P11			
			T/P12			
			T/P22			
			T23			
			T24			
			T/P91			
			T/P92			
			T/P36			
			P195CH/P235GH/P265GH	EN10216		
			160Mo3			
			13CrMO4-5			
			10CrMo9-10			
			15NiCuMoNb5-6-4	DIN 17175		
			P355N			
St35.8、St45.8、St52						
15Mo3						
13CrMo44						
10CrMo910						

※注：15NiCuMoNb5-6-4(简称Wb36)用于高压给水管道。

Note:15NiCuMoNb5-6-4(Abbreviation Wb36)used for high pressure water piping

核电站用无缝钢管 For Nuclear Power Station

品种 Variety	Size		钢级/钢号 Steel grade	钢级/钢号 Specification	典型用途 Typical application
	外径 mm OD mm	壁厚/mm WT/mm			
核电站用 无缝钢管 Nuclear Power station	17.00~1200.00	3.50~120.00	HD245、HD245Cr	GB24512.1 GB24512.2	核电站核岛与常规岛用碳钢 及合金钢无缝钢管 Carbon and alloy products for Nuclear Station island and conventional island
			HD265、HD265Cr		
			HD280、HD280Cr		
			HD12Cr2Mo		
			HD15Ni1MnMoNbCu	RCC-M2000年 版(02)补遗 RCC-M2000 edition(02) addendum	
			TUE250B		
			TU42C		
			TU48C		
			P280GH		
			SA106B/C	ASME SA106 ASME Sa335 EN10216	
			P11		
			P22		
			P36(WB36CN1)		

高压化肥设备用无缝钢管与石油裂化用无缝钢管 For Pressure Fertilizer Equipments and petroleum Cracking

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application
	外径 mm OD mm	壁厚/mm WT/mm			
高压化肥管 High pressure Chemical fertilizer Equipment	19.00~762.00	2.00~120.00	10	GB/T6479	高压化肥设备和管道 High pressure chemical fertilizer and pipeline
			20		
			Q345B、C、D、E		
			10MoWVNb	ASME SA213 ASME SA335	
			12CrMo		
			15CrMo		
			12Cr5Mo		
			12Cr2Mo		
T/P5					
T/P9					
石油裂化管 Petroleum Cracking	19.00~720.00	2.00~120.00	10	GB/T9948	石油精炼厂裂化炉 Cracking furnace of petroleum refineries
			20		
			12CrMo		
			15CrMo		
			12Cr5MoI		
			12Cr5MoNT		
			12Cr9MoI		
12Cr9MoNT					

钢钎内衬用无缝钢管 Lining pipe for drill

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application
	外径 mm ODmm	壁厚/mm WT/mm			
钎具内衬用管 Lining pipe for drill	55-220l	3.5-7	40MnMoV	SGXB14-2016	用于工程、矿山、隧道的凿岩钎具 Drill for mining tunnel and energning project

气瓶用无缝钢管 For Gas Cylinder

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application
	外径 mm OD mm	壁厚/mm WT/mm			
高压气瓶管 Gas Cylinder	38.00~1200.00	2.00~120.00 3.50~120.00	37Mn	GB/T18248 GB/T28884 or technical Specification	氧气瓶、氢气瓶 天然气瓶、蓄能瓶 Oxygenbottle、 hydrogenbottle、natural gas bottle、 accumulator
			30CrMo 30CrMoE		
			35CrMo		
			34CrMo4 34CrMo4/1		
			34CrMo4 34CrMo4/A		
			42CrMoE		
4130X					
4145 4147					

船舶用无缝钢管 For Ship and Vessel

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application
	外径 mm OD mm	壁厚/mm WT/mm			
船舶用管 Ship & Vessel	38.00~1200.00	3.50~120.00	410 I 410 II	CSS Rule or GB/5312	船舶用锅炉管、 过热器及管道 Boiler tube & pipe of vessel, over heater and pipeline
			R410	GI Rule	
			410HB	BV Rule	
			Gr3 Gr5	ABS Rule	
			TS410	DNV Rule	
			410 I 410 II	LR Rule	
			RST138 RST142	KR Rule	
			KTSPG38	NK Rule	
			KTSPG42		
KSTS38					

低温管道用无缝钢管 For low temperature

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application
	外径 mm ODmm	壁厚/mm WT/mm			
低温作业管 Low Temperature pipe	14.00~1200.00	2.00~120.00	Gr3 Gr6 Gr8 Gr10	ASTM A333/A333M ASME A333/A333M	-40°C低到-196°C的低温容器管道 及低温热交换器管道 -40°C~196°C Low temperature pressure Vessel piping and heat exchanger pipe

机械加工用无缝钢管 Mechanical Processing Tube & Pipe

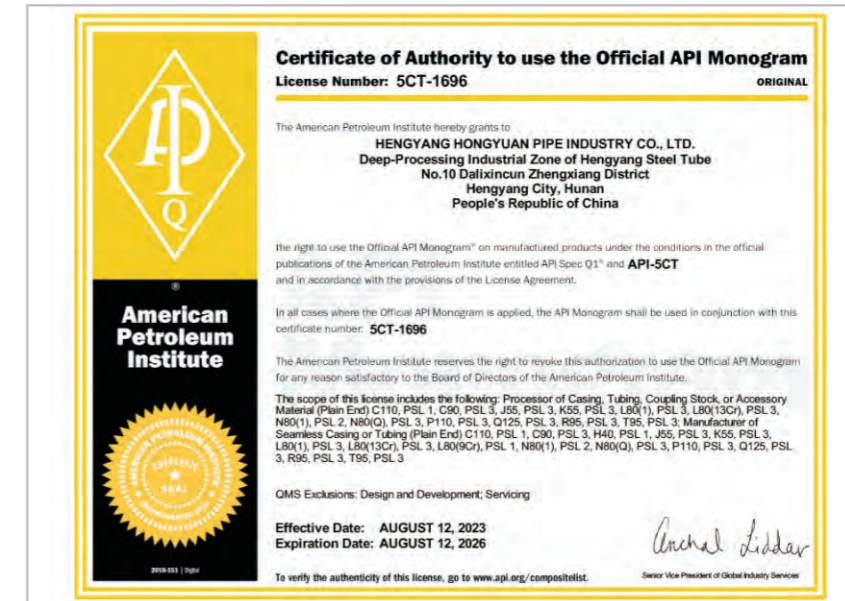
品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application
	外径 mm OD mm	壁厚/mm WT/mm			
结构管 Structural Tube & pipe	17.00~1200.00	3.50~120.00	10、20、35、45、Q345、Q390、Q420、Q460、 Q500、Q550、Q690、20Cr、40Cr、27SiMn、 15CrMo、20CrMo、35CrMo、42CrMo、 20CrNiMo、20CrMnMo、40CrNiMo、 30CrMnSiA、40CrMnMo、35CrMoA、20CrMoTi 1020,1026,1035,1045,4130,4140,etc	GB/T 8162	机械加工零件、结构件、管件等 Machining parts ,structuralparts and fittings
			4137、4142、4145、4130X、4130XMOD、 4145H、4145HMOD	ASTM A519	
流体管 Fluid Transmission Tube & Pipe	17.00~1200.00	3.50~120.00	10、20、Q345、Q390、Q420、Q460	GB/T 8163	输送一般气体液体 General gas and fluid transmission
低合金、 细晶粒结构管 Low-alloy and fine-grain Structure Tube & pipe	17.00~1200.00	3.50~120.00	S275J0H、S355K2H S460NH、S275J2H、S355J0H S355J2H、S355NH、S355NLH	EN 10210	用于桥梁、体育馆、飞机场、 海上风电等公共设施及机械工程 Public facilities and mechanical engineering such as bridge, gymnasium,airport and offshare wind power
液压支柱管 Hydraulic Cylinder Tube and Pipe	17.00~1200.00	3.50~120.00	20、35、45、27SiMn、 30CrMnSiA、35CrMnSiA、 S890、etc	GB/T 17396	液压支柱 Hydraulic cylinder
地质钻深管 Geology Drilling Tube & Pipe	17.00~1200.00	3.50~120.00	DZ40、DZ50、DZ55、DZ60、 STM-R780、etc	YB/T5052 Q/OHD006-2009	地质钻探 Geological drilling
汽车车轴用管 Auto axle Tube & pipe	17.00~1200.00	3.50~120.00	45、18Mn2、20Mn2、25Mn、 25Mn2、45Mn2、40MnB、40Cr、 SAE1527、E460、E260、CZ450s、 CZ530S、etc	YB/T5035 Q/OHA041-2019 Technical agreement	汽车车轴用管、汽车配件用管材料 Materials for auto axle pipe and outo fittings pipe
起重机臂架用管 Crane Jib tube & pipe	17.00~1200.00	3.50~120.00	HSM450、HSM770、HSM890、 HSM960、S335、Q390、Q460、 Q690、etc	GB/T30584-2014 Q/OHAD 015-2008 Technical agreement	履带式起重机、汽车式起重机、 港机设备起重机的承重桁架 Bearing truss of crawler crane, auto crane and port equipment crane
空心芯棒用管 Hollow Mandrel Tube & pipe	318.00~1200.00	50.00~120.00	42CrMo、30Cr3MoV	Q/OHAD002-2010	制造空心芯棒 Hollow mandrel bar
泵送管 Pumppiping Tube & pipe	17.00~860.00	3.50~42.00	20、Q345B、45Mn2、NM450、 NM55、HS-1、H65	Q/OHA 031-2013 Technical agreement	制造泵车输送管道 Pump transportation piping
油缸用管 Oil cylinder tube & pipe	57.00~765.00	3.50~120.00	20、45、25Mn、Q345B、Q345D、 27SiMn、20MnTiB、26MnNbNi、 E355、E3555、20MnV6、20MnTiB、 S550、S690、S720、S790、 XG850、S890、30CrMnSiA	Q/OHAD 032-2019 Technical agreement	制造液压油缸 Hydraulic cylinder
旋挖钻杆管 Rotary drill Tube & Pipe	57.00~765.00	3.50~120.00	Q345B、27SiMn、30CrMo、 35CrMo、HG550、HG650、 HG850	GB/T 34109-2017 Q/OHAD 037-2019 Technical agreement	制造旋挖钻杆 Rotary drilling rad
石油机械加工用管 Petroleum Machinery tube & pipe	17.00~1200.00	3.50~120.00	4130、4140、K55、L80-1、 T95-1、P110、C110、13Cr、 Q125-1、R95、35CrMo、 42CrMo、SCM440TK	API 5CT ASTM A519 Technical agreement	制造油服类零部件 Spare Parts of Petroleum service

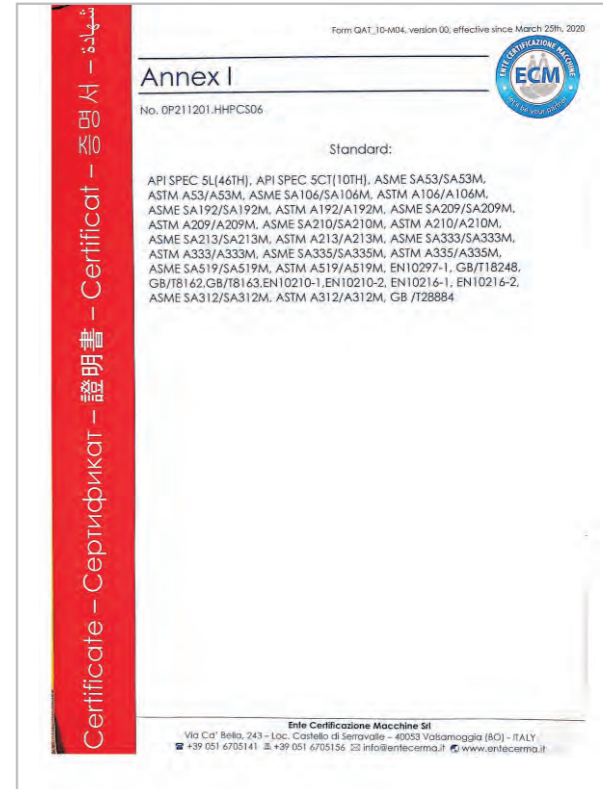
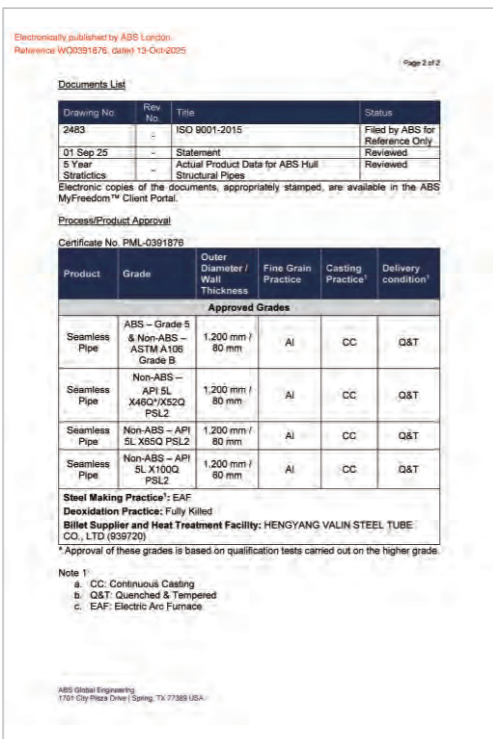
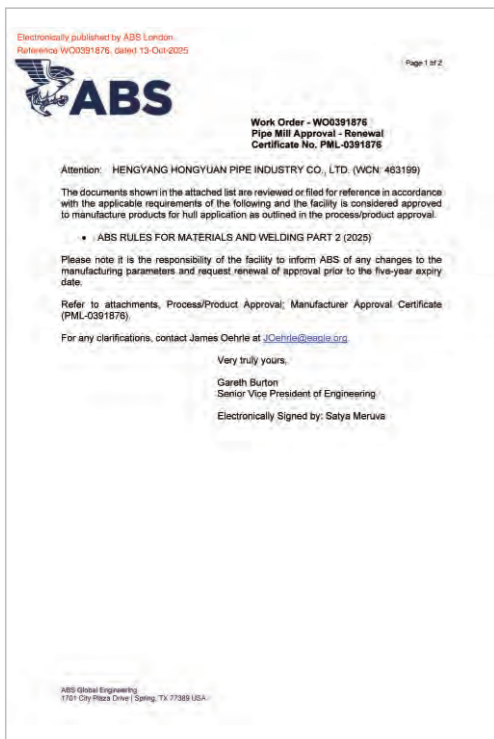
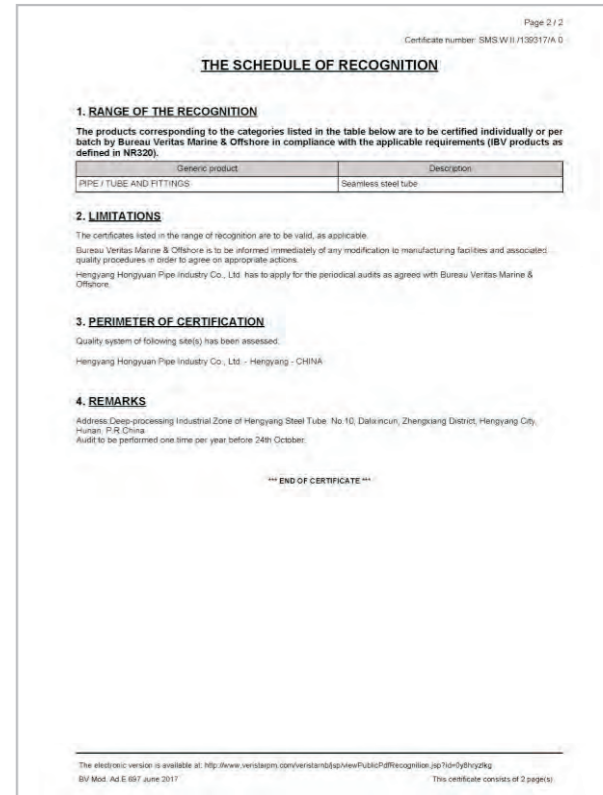
冷拔异型钢管 Cold drawn shaped steel tube

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical application
	边长 Side	壁厚 Wt			
六方形中空管 The hexagonal hollow tube	H22 H32 H35 H38		23CrNi3Mo、40Cr 50Mn2、42CrMo		用于凿岩杆、深告孔连接杆等工程机械用管 Mechanical engineering in deep drill or conneefion
圆形中空管 Round hollow tube	D38 D45 D51 D32				
方形钢管 Square steel tube	30-500mm	2-40mm	10、20、35、45、Q195、 Q215、Q235、Q345、 Q390、15CrMo、30CrMo、 35CrMo、34CrMo4、4130、 4140、4145、4147	GB/T 3094-2012 ASTM-A519	建筑构件、用于桥梁、体育馆、 飞机场等公共设施及机械工程、 汽车用管、石油钻井平台 High-end building, Public facilities and mechanical engineering such as bridge, gymnasium, airport, Automotive steel pipe, Oil rig
矩形钢管 Rectangular stell tube					
椭圆形钢管 Oval tube					
平椭圆形钢管 Flat oval tube					
内外六角形钢管 Inside and outside hexagonal steel pipe					
直角梯形钢管 Right angled trapezoid steel pipe					
各种复杂形状的异型钢管 Special shaped steel tube of various complex shapes					

高强度合金钢锚杆 High strength alloy steel anchor bar

品种 Variety	规格 Size	外径 mm OD mm	抗压强度N/mm ² Tensile strength	螺纹方向 (thread) The direction of	典型用途 Typical application
普通中空注浆锚杆 Hollow grouting anchor bar	TR25 TR28 TR32	25 28 32	≥550	左旋 Levorotatory	用于公路、铁路、隧道、水利水电工程、地下洞室的超前管棚支护、边坡支护 Tube shed or pipe support of highway railway tunnel Water Resources and Hydropower Engineering underground cavities
自钻式中空注浆锚杆 self-drilling hollow groud anchor bar	R25N R32N R32S R38N R51L R51N T76N T76S	25 28 32 38 51 76	690 650 620 750 840 760	左旋 Levorotatory	

质量管理 Quality Management
管理体系认证 产品认证 System&Products Certification




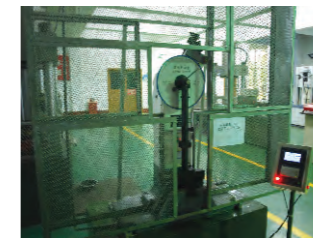
管理体系认证 产品认证 System&Products Certification



检验检测能力 Inspection Capability



拉伸试验机
Tensile Tester



冲击试验机
Impact Tester



布氏硬度试验机
Hardness tester



600T 压扁试验机
600T Flattening Tester



钢管工艺试验机
Tube & Pipe technology Tester



金相显微镜
Metallurgical microscope



扫描电镜
Vertical Scanning Electron Microscope



直读光谱仪
Direct-reading spectrometer



X射线荧光光谱仪
X-ray fluorescence spectrometer



等离子光谱仪
Plasma spectrometer



氢分析仪
Hydrogen Analyzer



氧氮分析仪
Oxygen & Nitrogen Analyzer



应力环
Stress ring



热电偶校验装置
Thermocouple calibration device



电能表校验装置
Energy meter calibration device



单项参数校验仪
Individual parameters calibration device

