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中国友缘集团

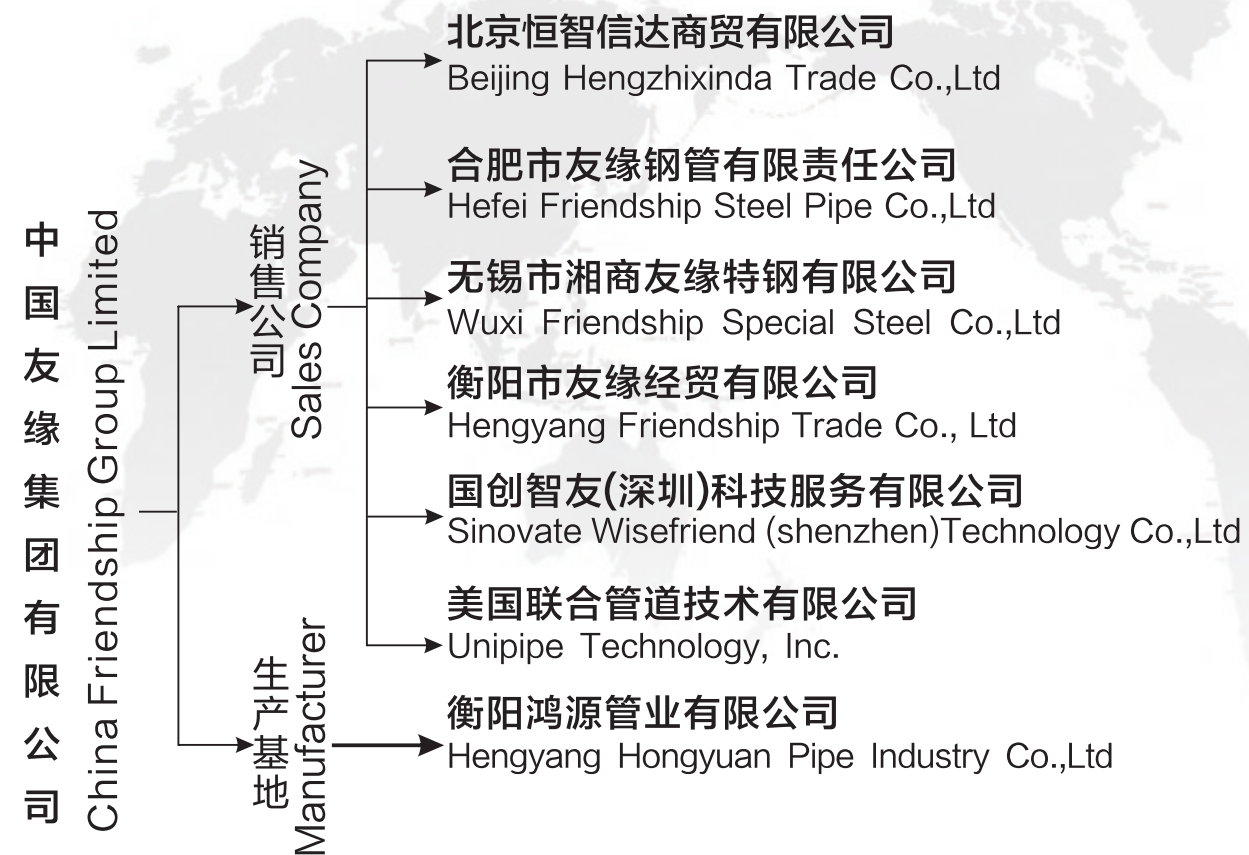
CHINA FRIENDSHIP GROUP



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

Our USP: Always focus in the field of seamless steel pipe.

愿景: 成为全球无缝钢管服务细分市场引领者

Our vision: Become a professional seamless steel pipe supplier.

价值观: 毅力 包容 改变

Our value: Persistence Comprehensive Transforming.

使命: 让客户省心, 创造价值

Our Mission: Create value.



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、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 $\phi 219 \sim 1200\text{mm}$ 大口径热扩无缝钢管生产线四条、 $\phi 102 \sim 900\text{mm}$ 大口径精密冷拔无缝钢管生产线二条、 $\phi 17 \sim 220\text{mm}$ 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。

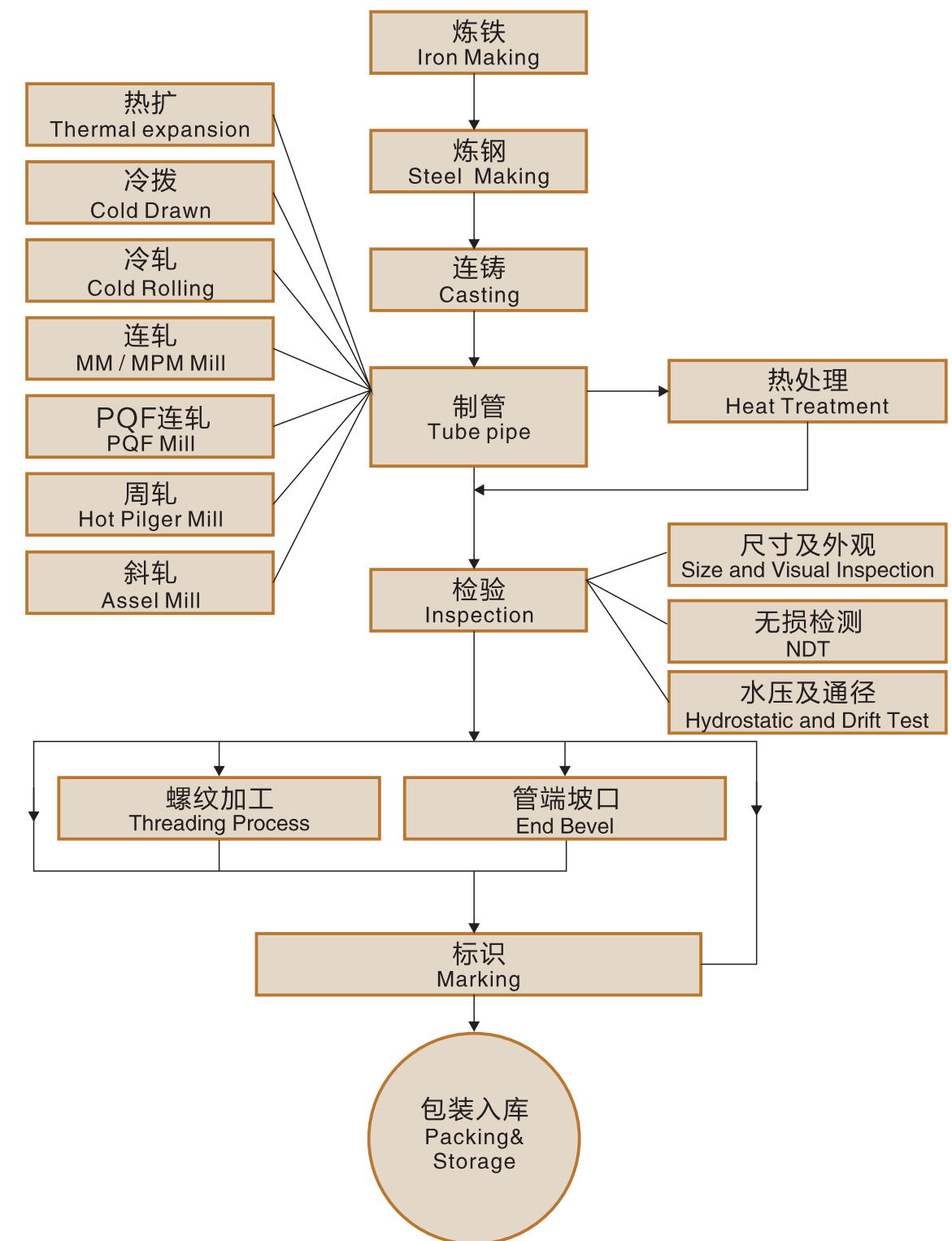
站在新的起点，友缘集团的目标是建设世界一流的专业化无缝钢管综合服务企业，为客户提供更为完善，更为便捷的配套服务。

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 GROUP,CNPC,SINOPEC,CNOOC,CSIC,CRRC,CHINA SALT, SFHI,CFHI,STATE GRID,WEATHERFORD,SINOMAand 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

冶炼系统 Smelting Systems

1条优质铁水生产线180m² 烧结+1080m³高炉
One High Quality Iron Making 180m² Sinter+1080m³Blast Furnace
2条弧形连铸圆管坯生产线
Two Curve Continuous Casters for Round Billet
φ150mm、φ180mm、φ220mm、φ250mm、φ280mm、φ330mm
1条弧形连铸特大圆管坯生产线
One curve Continuous Casters for Large Round Billet
φ500mm、φ600mm、φ700mm、φ800mm

管材生产线 Tube & Pipe Production Lines

EZG-11B 800吨液压二步推进制管机: φ559mm~φ1200mm
EZG-11B hot-expanse mill: φ559mm~φ1200mm
EZG-11B 500吨液压二步推进制管机: φ273mm~φ830mm
EZG-11B hot-expanse mill: φ273mm~φ830mm
EZG-11B 300吨液压二步推进制管机: φ219mm~φ559mm
EZG-11B hot-expanse mill: φ219mm~φ559mm
JLB1250T精密冷拔机组: φ219mm~φ860mm
JLB1250T-14500 precision hydraulic cold drawing mill: φ219mm~φ860mm
JLB600T 精密冷拔机组: φ102mm~φ559mm
JLB600T precision hydraulic cold drawing mill: φ102mm~φ559mm
LG-50B-H 冷轧机组: φ17mm~φ60mm×2mm~8mm
LG-50B-H Cold rolling Mill: φ17mm~φ60mm×2mm~8mm
LG-80-H 冷轧机组: φ28mm~φ105mm×3mm~30mm
LG-80-H Cold rolling Mill: φ28mm~φ105mm×3mm~30mm
LG-90-H 冷轧机组: φ60mm~φ121mm×3mm~35mm
LG-90-H Cold rolling Mill: φ60mm~φ121mm×3mm~35mm
LG-150-H 冷轧机组: φ70mm~φ220mm×6mm~40mm
LG-150-H Cold rolling Mill: φ70mm~φ220mm×6mm~40mm
φ89m 连轧机组 φ51mm~φ127mm×3.5mm~12mm
φ89m MM Mill φ51mm~φ127mm×3.5mm~12mm
φ180m 连轧管机组 φ73mm~φ180mm×4mm~22mm
φ180m PQF Mill φ73mm~φ180mm×4mm~22mm
φ219m 三辊轧管机组 φ68mm~φ260mm×8mm~55mm
φ219m Assel Mill φ68mm~φ260mm×8mm~55mm
φ340m 连轧管机组 φ139mm~φ368mm×5mm~42mm
φ340m MPM Mill φ139mm~φ368mm×5mm~42mm
φ720m 周期轧管 φ273mm~φ720mm×8mm~120mm
φ720m Hot Pilger Mill φ273mm~φ720mm×8mm~120mm

螺纹加工线 Threading process Line

车丝线 φ60.3mm~φ508mm
Threading process Line φ60.3mm~φ508mm

热处理生产线 Heat Treatment Lines

3.6m台车炉 φ300mm~φ1000mm
3.6mGWL-TC φ300mm~φ1000mm
2.6m台车炉 φ300mm~φ1000mm
2.6mWL-TC φ300mm~φ1000mm
19m 均温炉 φ300mm~φ1000mm
19m Mean Temperature furnace φ300mm~φ1000mm
多功能热处理炉 φ300mm~φ1000mm
Multi-functiom heat treatment furnace φ300mm~φ1000mm
大口径钢管感应加热炉 φ300mm~φ1000mm
Large diameter induction heating furnace φ300mm~φ1000mm
小口径钢管感应加热炉 φ50mm~φ219mm
Small diameter induction heating furnace φ50mm~φ219mm
φ89油管热处理线 φ48.3mm~φ127.0mm
φ89Tubing Heat Treatment Line φ48.3mm~φ127.0mm
φ89mm 油管中频热处理线 φ60.3mm~φ114.3mm
φ89mm Tubing Intermediate Frequency Heat Treatment Line φ60.3mm~φ114.3mm
φ340 1#套管热处理线 φ139.7mm~φ376mm
φ340 Casing Heat Treatment Line1 φ139.7mm~φ376mm
φ340 2#套管热处理线 φ73mm~φ244.5mm
φ340 Casing Heat Treatment Line2 φ73mm~φ244.5mm
φ180 热处理线 φ114mm~φ219mm
φ180 Heat Treatment Line φ114mm~φ219mm
φ720 热处理线 φ159mm~φ720mm
φ720 Heat Treatment Line φ159mm~φ720mm
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 Speciflcation 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

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	纵向塑性应变能力要求 Sour & offshore service	
A/L210					Gr3 Gr6 Gr8
B/L245	BN/L245N	BNO/L245NO	BNS/L245NS	BNP/L245NP	
	BQ/L245Q	BQO/L245QO	BQS/L245QS	BQP/L245QP	
X42/L290	X42N/L290N	X42NO/L290NO	X42N/L290NS	X42NP/L290NP	
	X42Q/L290N	X42QO/L290QO	X42Q/L290QS	X42QP/L290QP	
X46/L320	X46N/L320N	X46NO/L320NO	X46N/L320NS	X46NP/L320NP	
	X46Q/L320N	X46QO/L320QO	X46Q/L320QS	X46QP/L320QP	
X52/L360	X52N/L360N	X52NO/L360NO	X52N/L360NS	X52NP/L360NP	
	X52Q/L360N	X52QO/L360QO	X52Q/L360QS	X52QP/L360QP	
X56/L390	X56Q/L390N	X56QO/L390QO	X56Q/L390QS	X56QP/L390QP	
	X56Q/L390N				
X60/L415	X60Q/L415N	X60QO/L415QO	X60Q/L415QS	X60QP/L415QP	
	X60Q/L415N				
X65/L450	X65Q/L450N	X65QO/L450QO	X65Q/L450QS	X65QP/L450QP	
X70/L485	X70Q/L485N	X70QO/L485QO	X70Q/L485QS	X70QP/L485QP	
	X80Q/L555N	X80QO/L555QO		X80QP/L555QP	
	X90Q/L625N	X90QO/L625QO			
	X100Q/L690N	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



炼铁炼钢生产线 Blast Furnace
 弧形连铸圆管坯生产线 Curve Continuous Casters for Round Billet
 Φ720周期轧管机组 Φ720 Hot Pilger Mill



100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
 Φ180PQF连轧管机组 Φ180 PQF 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-14500Precision hydraulic cold drawing mill
 EZG- II B 830X60液压二步推进制管机 EZG- II B Φ830 × 60hot-expanded mill

API 系列套管 API Casing

API 系列油管 API Tubing										
规格 Size		钢级及钢号 Steel grade & connection type								执行行标准 Specification
外径 mm(inch) ODmm(inch)	壁厚/mm WT/mm	H40	J55、K55	L80-1、L80-9/13Cr、R95	N80-1、N80Q	C90	T95	P110	Q125	
42.16(1.660")	3.18									API SPEC 5CT PSL1, PSL2, PSL3,
	3.56	N/U	N/U	N/U	N/U	N/U	N/U			
	4.85	U	U	U	U	U	U	U	U	
48.26(1.900")	3.18	N/U	N/U	N/U	N/U	N/U	N/U			
	3.68	N/U	N/U	N/U	N/U	N/U	N/U			
	5.08	U	U	U	U	U	U	U	U	
	6.35									
60.32(2-3/8")	7.62									
	4.24									
	4.83									
	6.45									
	7.49									
73.02(2-7/8")	8.53									
	5.51	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U	
	7.01			N/U	N/U	N/U	N/U	N/U	N/U	
	7.78			N/U	N/U	N/U	N/U	N/U	N/U	
	8.64			U				U	U	
	9.96									
89.90(3-1/2")	11.18	U	N	N	N	N	N			
	5.49									
	6.45	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U	
	7.34	N	N	N	N	N	N			
	9.52			N/U	N/U	N/U	N/U	N/U	N/U	
	10.92									
	12.09									
101.60(4")	13.64									
	5.74	N	N	N	N	N	N	N	N	
	6.65	U	U	U	U	U	U	U	U	
	8.38									
	10.54									
	12.70									
114.30 (4-1/2")	15.49									
	6.88	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U	
	8.56									
	9.65									
	10.92									
	12.70									
	14.22									
16.00										
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										

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

规格 Size		钢级及钢号 Steel grade & connection type									执行标准 Specification
外径mm(inch)	壁厚/mm WT/mm	J55、K55	M65	L80-1、L80-9/13Cr、R95	N80-1、N80Q	C90、T95	C110	P110	Q125	V150	
114.30(4-1/2")	5.21	S	S							S/B	API SPEC 5CT PSL1, PSL2, PSL3,
	5.69	S/B	S/B								
	6.35	S/L/B	L/B	L/B	L/B	L/B		L/B			
	7.37		L/B	L/B	L/B	L/B		L/B			
	8.56							L/B	L/B	L/B	
127.00(5")	5.59	S	S								
	6.43	S/L/B	S/L/B								
	7.52	S/L/B	L/B	S/L/B	S/L/B	L/B		S/L/B			
	9.19		L/B	S/L/B	S/L/B	L/B		S/L/B	L/B	L/B	
	10.10		L/B	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								
	6.98	S/L/B	S/L/B								
	7.72	S/L/B	L/B	S/L/B	S/L/B	L/B		S/L/B			
	9.17		L/B	S/L/B	S/L/B	L/B		S/L/B			
168.28(6-5/8")	10.54		L/B	S/L/B	S/L/B	L/B		S/L/B	S/L/B	S	
	7.32	S/L/B	S/L/B								
	8.94	S/L/B	L/B	S/L/B	S/L/B	L/B		S/L/B			
	10.59		L/B	S/L/B	S/L/B	L/B		S/L/B			
	12.06			S/L/B	S/L/B	L/B		S/L/B	L/B	L/B	
117.80(7")	6.91	S	S								
	8.05	S/L/B	L/B	S/L/B	S/L/B	L/B					
	9.19		L/B	S/L/B	S/L/B	L/B		S/L/B			
	10.60		L/B	S/L/B	S/L/B	L/B		S/L/B			
	11.51		L/B	S/L/B	S/L/B	L/B		S/L/B			
	12.65			S/L/B	S/L/B	L/B		S/L/B	S/L/B		
	13.72			S/L/B	S/L/B	L/B		S/L/B	S/L/B		
193.67(7-5/8")	8.33	S/L/B	S/L/B	L/B	L/B	L/B					
	9.52		L/B	L/B	L/B	L/B		L/B			
	10.95		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	
	15.88			L/B	L/B	L/B		L/B	L/B	L/B	
219.08(8-5/8")	6.71	S	S	S							
	7.72	S/L/B	S								
	8.94	S/L/B	S/L/B								
	10.16		S/L/B	L/B	L/B	L/B		L/B			
	11.43		L/B	L/B	L/B	L/B		L/B			
	12.70			L/B	L/B	L/B		L/B			
	14.15			L/B	L/B	L/B		L/B	L/B	L/B	

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	M65	L80-1、L80-13Cr、R95	N80-1、N80Q	C90、T95	C110	P110	Q125	V150	
244.48 (9-8/5")	8.94	S/L/B	S/L/B								API SPEC 5CT PSL1、PSL2 PSL3
	10.03	S/L/B	S/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	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			
273.05 (10-3/4")	8.89		S/B								
	10.16	S/B	S/B								
	11.43	S/B	S/B								
	12.57			S/B	S/B	S/B		S/B			
	13.84			S/B	S/B	S/B		S/B			
298.45 (11-3/4")	15.11					S/B		S/B	S/B	S/B	
	9.65					S/B		S/B	S/B	S/B	
	10.92										
	12.19			S/B				S/B	S/B		
339.72 (13-3/8")	13.06			S/B				S/B	S/B	S/B	
	8.38										
	9.65	S/B	S/B								
	10.92	S/B	S/B								
406.00(16")	12.19		S/B	S/B	S/B	S/B		S/B			
	13.06			S/B	S/B	S/B		S/B	S/B	S/B	
406.00(16")	16.66			S/B	S/B	S/B		S/B	S/B		
508.00(20")	11.13			S/B	S/B	S/B		S/B	S/B		
610.00(24")	12.70	S/L/B									
	16.66	S/L/B									
762.00(24")	16.13	S/L/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 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	典型用型 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		
抗H ₂ S油套管系列 H ₂ S-resistant casing and tubing	38.1~762	5.21~31.80	P110T	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
			HS80S\HS80SS		
			HS90S\HS90SS		
			HS95S\HS95SS		
			HS110S\HS110SS		
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	HS110S\HS110SS	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
			HS125S\HS125SS		
			HS80S/SS-3Cr		
			HS90S/SS-3Cr		
抗CO ₂ 腐蚀油套管 CO ₂ Corrosion-resistant casing and tubing	48.3~508	4.83~26.24	HS95S/SS-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
			HS110S-3Cr		
			HS80-3Cr		
			HS90-3Cr		
			HS95-3Cr		
			HS110-3Cr		
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	HS80-13Cr	HK33-2019 或技术协议 HK33-2019 or technical agreement	用于含CO ₂ 的环境 Environment containing CO ₂
			HS85-13Cr		
			HS95-13Cr		
			HS95S-13Cr		
			HS110S-13Cr		
低温柔套管 Casing for low-temperature environment	26.10~762	5.21~31.80	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		
热采井套管系列 Thermal recovery well casing	114.3~762	5.21~26.24	HS110TS	技术协议 Technical agreement	用于低温环境 Low temperature environment
			P110TS		
			HS80L		
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	HS90L	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
			HS95L		
			HS110L		
			HS80H		
海上风电平台用管系列 Pipe series for offshore wind power platform	200~500	10.00~30.00	HS90H	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
			HS95H		
			HS110H		
			HS90HT-3Cr		
			P110TS		
			HS140		
			HS150		
海上风电平台用管系列 Pipe series for offshore wind power platform	200~500	10.00~30.00	HS155	API 5L	海上平台、船体和组块用管 Tubes for offshore platforms, hulls and assemblies
			X52		
			X60		
			X80Q		
			X100Q		
			Q550E		
			L80-1Cr		
			L110-13Cr		

HS 系列特殊螺纹接头 HS premium connection

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-erch 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 temperatureand 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 structre;Flush joint	适于对环空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隙有要求等复杂井况 Salt-rock layer,gymsum-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 ,intermendiate 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 tall pipe for cementing and well conditions requiring the connection to be interchanged with API BC connection

海洋工程用管 Ocean Engineering tube &pipe

产品 Prouct	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 oceanoil rig
钻井隔水管 Drilling riser	324-1200	10-1200	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 resi starce of the inner and outer surfuces of the pipe can withseard crushing pressure and lifting load	用于隔绝海水 作用 To insulate seawater
高压泥浆 循环用管 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 capality, offer corrosian resist ance	高压循环注浆管 High-Pressure Circulating groutingpipe

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		
			P355N	DIN 17175	
			St35.8、St45.8、St52		
			15Mo3		
			13CrMo44		

※ 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		
			TUE250B	RCC-M2000年 版（02）补遗 RCC-M2000 edition(02) addendum	
			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 6479	高压化肥设备和管道 High pressure chemical fertilizer and pipeline
			20		
			Q345B、C、D、E		
			10MoWVNb		
			12CrMo	ASME SA213 ASME SA335	
			15CrMo		
			12Cr5Mo		
			12Cr2Mo		
			T/P5		
			T/P9		
石油裂化管 Petroleum Cracking	19.00~720.00	2.00~120.00	10	GB 9948	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	55-220I	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 Cas Cylinder	38.00~1200.00	2.00~120.00 3.50~120.00	37Mn	GB 18248 GB 28884 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	410Ⅰ 410Ⅱ	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	
			410Ⅰ 410Ⅱ	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	Gr1	ASTM A333/A333M ASME A333/A333M	-40℃低到-196℃的低温容器管道 及低温热交换器管道 -40℃-196℃ Low temperature pressure Vessel piping and heat exchanger pipe
			Gr3		
			Gr6		
			Gr8		
			Gr10		

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 4137、4142、4145、4130X、4130XMOD、 4145H、4145HMOD	GB/T 8162 ASTM A519	机械加工零件、结构件、管件等 Machining parts ,structuralparts and fittings
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
非合金、 细晶粒结构管 Non-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
地质钻探管 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
管模用管 Mold Tube & Pipe	DN200	DN600	21CrMo10	Technical agreement	制造离心铸管管模 Centrifugal cast mold
高端建筑用管 High-end building Tube & pipe	471.00 x 471.00	10.00 ~ 450.00	Q345、Q390、Q420	Technical agreement	建筑构性 High-end building component
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 & Piope	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					

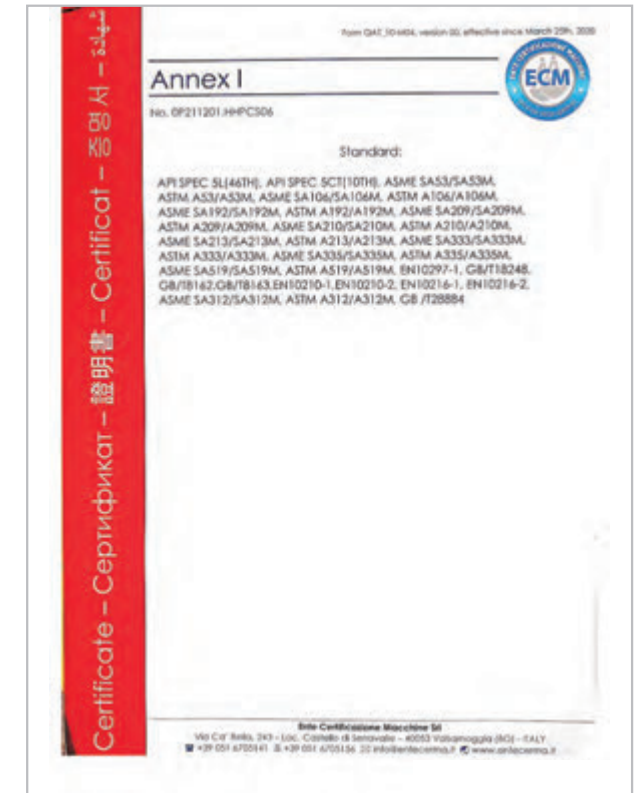
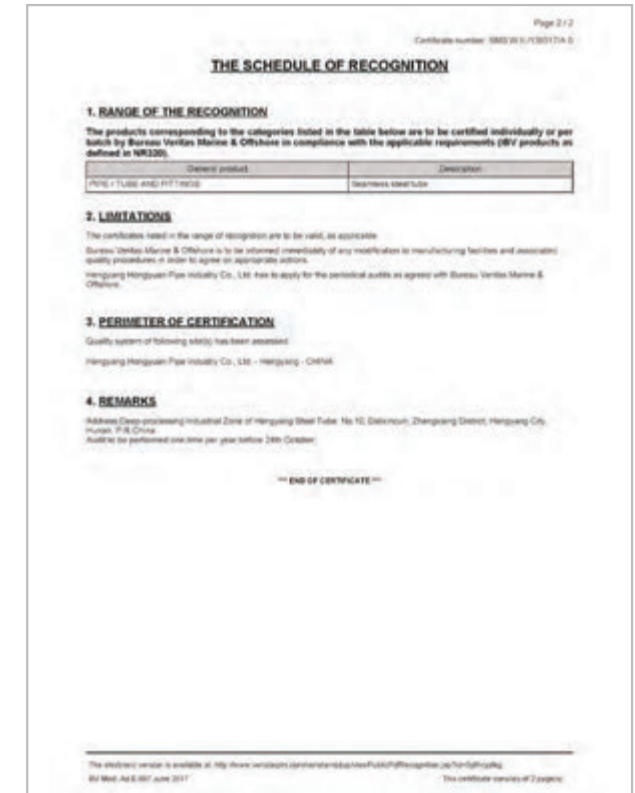
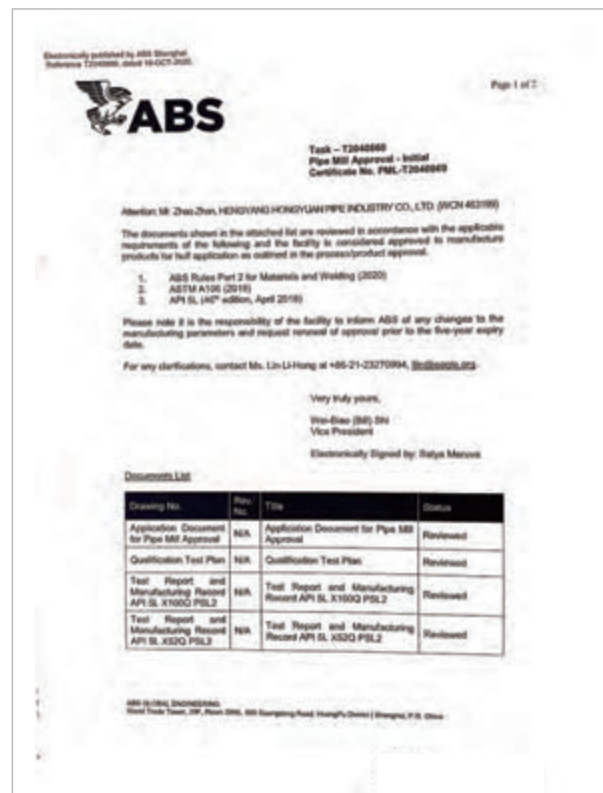
高强度合金钢锚杆 High strength alloy steel anchor bar

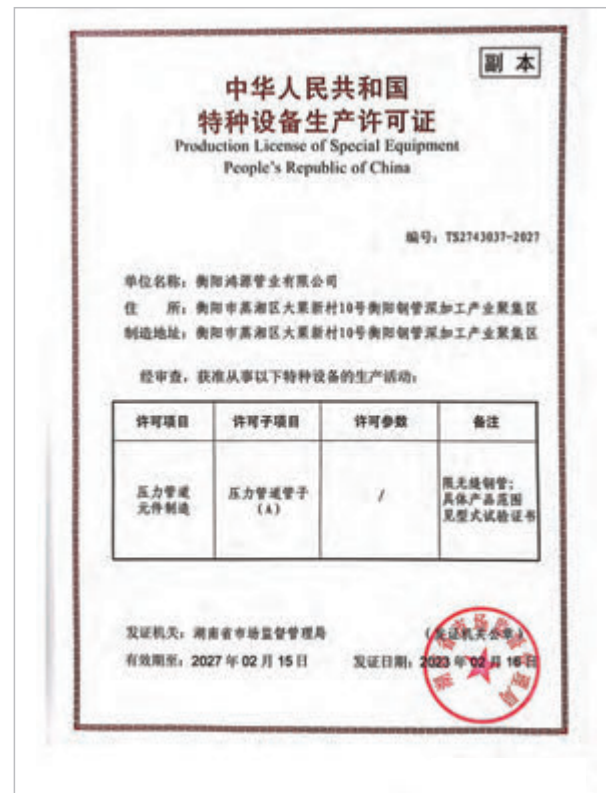
品种 Variety	规格 Size	外径 mm OD mm	抗压强度N/mm ² Tensile strength	螺纹方向 (thread) The direction of	典型用途 Typical application
普通中空注浆锚杆 Hollow grouting anchor bar	TR25 TR28 TR32	25 28 32	≥550	左旋 Levorotatory	用于公路、铁路、隧道、水利水 电工程、地下洞室的超前管棚支 护、边坡支护 Tube shed or pipe support of highway railway tunnel Water Resources 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 32 32 38 51 51 76 76	690 650 690 650 620 750 840 760	左旋 Levorotatory	

质量管理 Quality Management

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







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