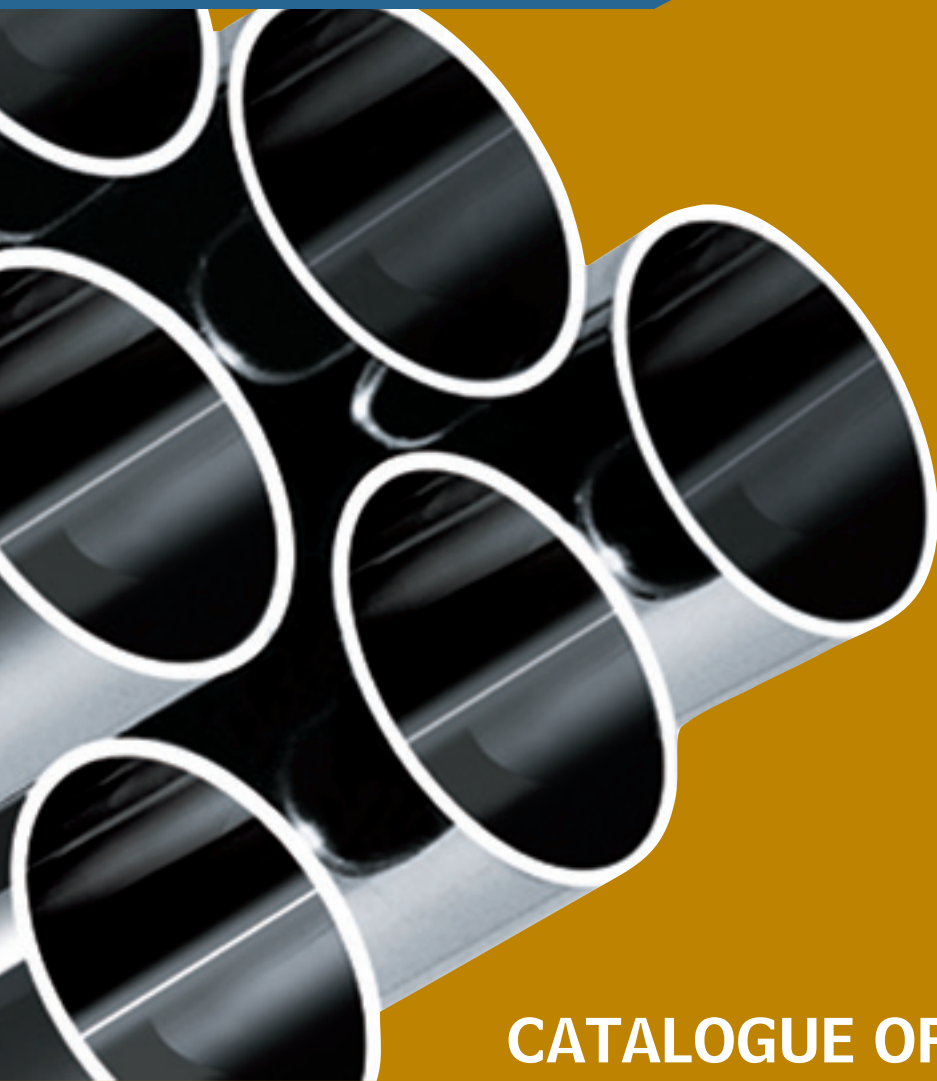


Hengyang Valin Steel Tube Co.,Ltd.



CATALOGUE OF OCTG / LINE PIPE





HYST owns the most entire rolling mills, advanced equipment and complete product specifications.

HYST is one of the largest seamless steel tube & pipe manufacturers of OCTG and pressure vessel in China.

HYST is the biggest enterprise sharing the largest export volume of seamless steel tube & pipe in China

HYST is one of the main strategic suppliers of Petro China, Sinopec, CNOOC, Shell, ExxonMobil, Shanghai Boiler, Dongfang Boiler, China National Nuclear Corporation, CGN,, Beijing Tianhai Industry Co.,Ltd, ZOOMLION and Sany etc.



Directory

-  02/ Company Profile
-  03/ Process Flow Chart
-  04/ Technical Facilities
-  06/ Product Mix
-  16/ Quality Management
-  20/ Health, Safety, Environment
-  22/ Marketing and Service
-  24/ Product Application





Company Profile

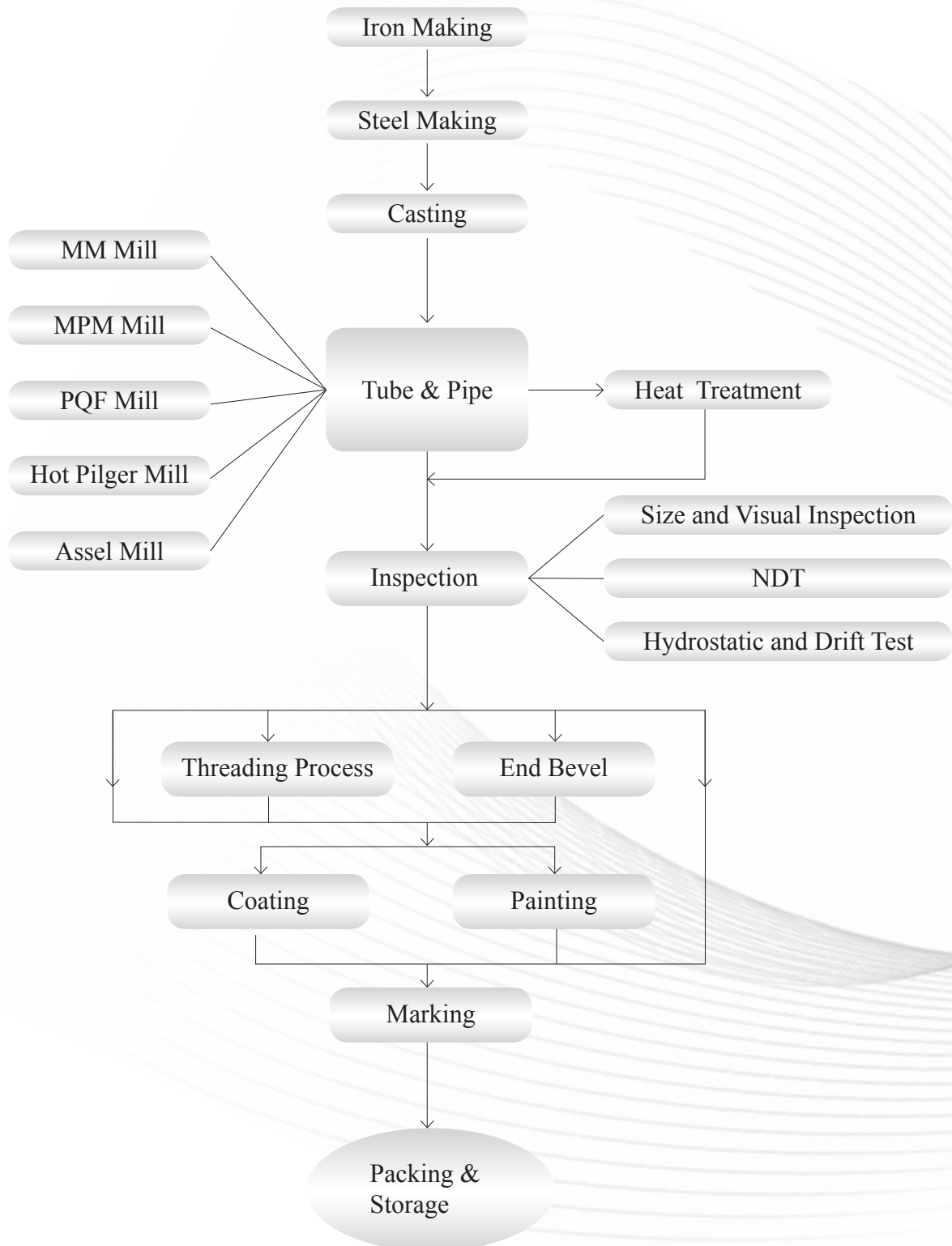
Hengyang Valin Steel Tube Co. Ltd. (hereinafter referred to as HYST) is a subsidiary of Hunan Valin Iron & Steel Group Co., Ltd. founded in 1958, is one of the seamless steel tube & pipe enterprises with the most entire rolling mills, advanced equipment and complete product specifications whose production scale has been ranked the globe fifth by “Metal Bulletin” US. Its export volume has continuously kept the leading position in China seamless tube & pipe industry for dozen years. It is a national high and new-tech enterprise which is the first to pass the State Intellectual Property Management System Certification and one of the first among 45 steel standardizes enterprises audited by “Steel Industry Standard Condition” of MIIT. It has 5400 employees with total assets of 15 billion Yuan.

HYST has an annual output capacity of 2 million tons of seamless steel tube & pipe with entire specialized production process of iron, steel, tube & pipe and further processing, which can produce variety of seamless steel tube & pipe of OD6—800mm and WT 1.5—120mm based on specifications. It has been built the three leading products of petroleum and natural gas, pressure vessels and mechanical tubing as well as HS series with independent intellectual property rights. Among them petroleum and natural gas product and service is mainly for complex geological environment mining, which has passed the test by customers and other inspection authorities such as ABS, CCS and affirmed by famous International oil companies like Chevron, Total, Maersk, and a strategic partner of Petro China, Sinopec, CNOOC. Product for power station has realized the localization of four main pipelines and its quality enjoys a higher reputation in petroleum, petrochemical, boiler, power generation, machinery, coal mining, chemical, nuclear power and other industries of both domestic and overseas market.

HYST has consistently insisted on further structural adjustment, extended the industrial chain and active transformation and upgrading who is the first enterprise to invest a tube & pipe further processing industry zone in Hunan Province, which a number of tube & pipe further processing enterprises has been brought into. It has been named as new industrialization demonstration base by MIIT whose sales income including HYST is keeping over 100 billion Yuan.

HYST's vision is to become “a world-class professional seamless steel tube & pipe enterprise ” and it insists on the green manufacturing, intelligent manufacturing and quality manufacturing through the path of professional development, vigorously promotion of structural adjustment and constantly elevation of the core competitiveness.

Process Flow Chart



Smelting Systems

One High Quality Iron Making 180m³ Sinter+1080m³ Blast Furnace
 Two Curve Continuous Casters for Round Billet
 φ140mm、φ150mm、φ180mm、φ220mm、φ250mm
 φ280mm、φ330mm
 One curve Continuous Caster for Large Round Billet
 φ500mm、φ600mm、φ700mm、φ800mm

Tube & Pipe Production Lines

φ89m MM Mill φ38mm~φ127mm ×3.5mm~12mm
 φ180m PQF Mill φ73mm~φ180mm ×4mm~22mm
 φ219m Assel Mill φ68mm~φ260mm ×8mm~55mm
 φ340m MPM Mill φ139mm~φ368mm ×5mm~42mm
 φ720m Hot Pilger Mill φ273mm~φ720mm ×8mm~120mm

Tube End Upsetting Lines

Tubing Upsetting Line φ48.3mm ~φ114.3mm
 Drill tube Upsetting Line φ60.3mm ~φ127.0mm

Heat Treatment Lines

φ89 Tubing Heat Treatment Line φ48.3mm ~φ127.0mm
 φ89 Tubing Intermediate Frequency Heat Treatment Line
 φ340 Casing Heat Treatment Line 1 φ139.7mm ~φ376mm
 φ340 Casing Heat Treatment Line 2 φ73mm ~φ244.5mm
 φ180 Heat Treatment Line φ114mm ~φ219mm
 φ720 Heat Treatment Line φ159mm ~φ720mm

Threading Lines

Threading Lines φ60.3mm ~φ508mm

Coating Lines

External Surface Abrasive Blasting Line φ21.0 mm
 ~φ800.0mm
 Internal Surface Abrasive Blasting Line φ114.0 mm
 ~φ800.0mm
 O-die Extrusion Process Line φ21.0mm-φ406.0/114.0mm-
 φ800.0mm
 Winding-up Extrusion Process Line φ159.0mm-φ800.0mm
 Internal Corrosion-resistant Painting Line φ114.0mm-
 φ800.0mm



φ340 MPM Mill



φ720 Hot Pilger Mill



Blast Furnace



Curve Casters of Round Billet



End upsetting Line



Φ89 MM Mill



Φ180 PQF Mill



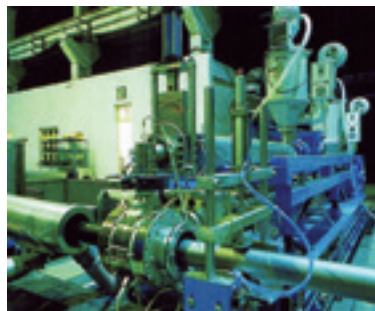
Φ219 Assel Mill



Threading Lines



Heat Treatment Lines



Coating Line

Product Mix



- API Casing
- API Tubing
- Drill Tube
- Non-API OCTG Series
- Line Pipe
- HS Premium Connection
- Ocean Engineering tube & pipe
- Coating Tube & Pipe





● OCTG Product Introduction

API Casing

Size		Steel Grade & Connection Type									Specification
ODmm (inch)	WT/mm	H40	J55、K55	M65	L80-1、L80-13Cr、R95	N80-1、N80Q	C90、T95	C110	P110	Q125	
114.30 (4-1/2")	5.21	S	S	S							API SPEC 5CT
	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	
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	
	11.10			L/B	L/B	L/B	L/B		L/B	L/B	
	12.14				L/B	L/B	L/B		L/B	L/B	
	12.70				L/B	L/B	L/B		L/B	L/B	
139.70 (5-1/2")	6.20	S	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		
	10.54			L/B	S/L/B	S/L/B	L/B		S/L/B	S/L/B	
168.28 (6-5/8")	7.32	S	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	
177.80 (7")	6.91	S	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		
	10.36			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	
193.68 (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		
	10.92			L/B	L/B	L/B	L/B		L/B		
	12.70				L/B	L/B	L/B		L/B	L/B	
	14.27				L/B	L/B	L/B		L/B	L/B	
	15.11				L/B	L/B	L/B		L/B	L/B	
	15.88				L/B	L/B	L/B		L/B	L/B	

Size		Steel Grade & Connection Type									Specification
ODmm (inch)	WT/mm	H40	J55、K55	M65	L80-1、L80-13Cr、R95	N80-1、N80Q	C90、T95	C110	P110	Q125	
219.08 (8-5/8")	6.71		S	S	S						API SPEC 5CT
	7.72	S	S/L/B	S							
	8.94	S	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	
244.48 (9-5/8")	8.94	S	S/L/B	S/L/B							
	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		
	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	
	15.11				L/B	L/B	L/B		L/B		
273.05 (10-3/4")	8.89	S/B		S/B							
	10.16	S/B	S/B	S/B							
	11.43	S/B	S/B	S/B	S/B	S/B	S/B		S/B		
	12.57				S/B	S/B	S/B		S/B		
	13.84						S/B		S/B	S/B	
	15.11						S/B		S/B	S/B	
298.45 (11-3/4")	9.65										
	10.92										
	12.19				S/B				S/B		
	13.06				S/B				S/B	S/B	
339.72 (13-3/8")	8.38	S									
	9.65		S/B	S/B							
	10.92		S/B	S/B							
	12.19			S/B	S/B	S/B	S/B		S/B		
	13.06				S/B	S/B	S/B		S/B	S/B	
406.40 (16")	16.66										
508.00 (20")	16.13		S/L/B								
Note:S-SC;L-LC;B-BC											

API Tubing

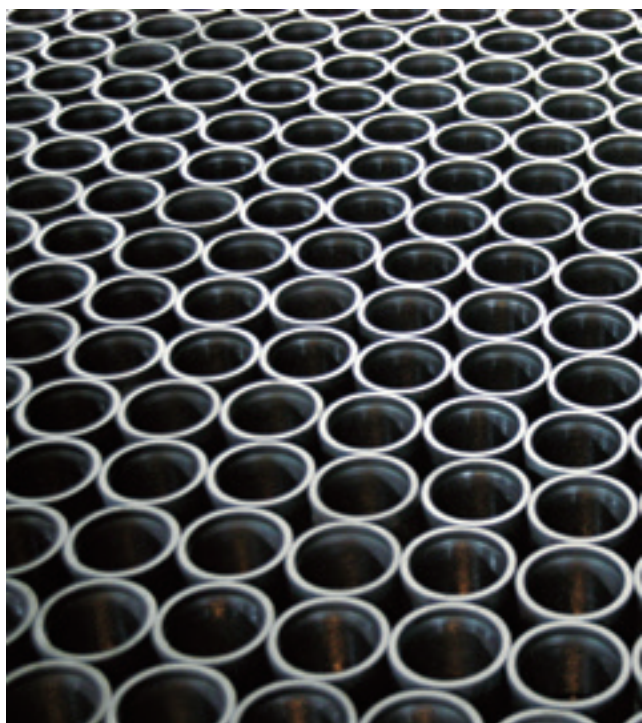
Size		Steel Grade & Connection Type							Specification
ODmm(inch)	W T/mm	H40	J55	L80-1、L80-13Cr、R95	N80-1、N80Q	C90	T95	P110	
42.16(1.660")	3.18								API SPEC 5CT
	3.56	N/U	N/U	N/U	N/U	N/U	N/U		
	4.85	U	U	U	U	U	U	U	
48.26(1.900")	3.18	N/U	N/U	N/U	N/U	N/U	N/U		
	3.68	N/U	N/U	N/U	N/U	N/U	N/U		
	5.08	U	U	U	U	U	U	U	
	6.35								
	7.62								
60.32(2-3/8")	4.24								
	4.83								
	6.45								
	7.49								
	8.53								
73.02(2-7/8")	5.51	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	
	7.82			N/U	N/U	N/U	N/U	N/U	
	8.64				U			U	
	9.96								
	11.18	U	N	N	N	N	N		
88.90(3-1/2")	5.49								
	6.45	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	
	10.92								
	12.09								
	13.46								
101.60(4")	5.74	N	N	N	N	N	N	N	
	6.65	U	U	U	U	U	U	U	
	8.38								
	10.54								
	12.70								
	15.49								
114.30(4-1/2")	6.88	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								

Note: N-NU; U-EU.

Ps: besides above mentioned products, plain end products either

Drill Tube & Pipe

No.	Size		Steel Grade	Type	Specification
	OD/mm(inch)	WT/mm			
1	60.32 (2-3/8")	7.11	E、X、G、S	EU	API 5DP
2	73.02 (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	EU	
			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	



Non-API OCTG Series

Variety	Size		Steel Grade	Connection Type	Specification	Typical Application
	DO(mm)	WT (mm)				
Collapse-resistance Casing	114.3~339.7	5.21~15.88	HS80T\HS80TT	S/L/B/HSM-1/HSM-2	HK35-2011 or technical specification	Rock-salt Layer, Deep and Complex Geological Condition
			HS90T\HS90TT			
			HS95T\HS95TT			
			HS110T\HS110TT			
			HS125T\HS125TT			
			HS140T\HS140TT			
			HS150T\HS150TT			
Hydrogen Sulfideresistance casing and tubing	114.3~339.7	5.21~15.88	HS80S\HS80SS\HS80TS	S/L/B/HSM-1/HSM-2	HK34-2011 or technical specification	Hydrogen Sulfide Environment
			HS90S\HS90SS\HS90TS			
			HS95S\HS95SS\HS95TS			
			HS100S\HS100SS\HS100TS			
			HS110S\HS110SS\HS110TS			
			HS125SS※			
Economical Anti-H ₂ S+CO ₂ Casing and tubing	114.3~339.7	5.21~15.88	HS80-1Cr	S/L/B/HSM-1/HSM-2	HK33-2011 or technical specification	CO ₂ Enviroment
			HS80S/SS-3Cr			
			HS90S/SS-3Cr			
			HS95S/SS-3Cr			
			HS110S-3Cr			
			HS110-S13Cr			
casing and tubing For LowTemperature Environment	114.3~339.7	5.21~15.88	HS80L	S/L/B/HSM-1/HSM-2	Technical specification	Low-temperature Environment
			HS90L			
			HS95L			
			HS110L			
Thermal Recovery Well Casing	114.3~339.7	5.21~15.88	HS80H	S/L/B/HSM-1/HSM-2/HSN	HK29-2011 or technical specification	Heavy Oil and Heat-resistance Environment
			HS90H			
			HS95H			
			HS110H			
Deep Well Casing	114.3~339.7	5.21~15.88	HS140	S/L/B/HSM-1/HSM-2	HK36-2011 or technical specification	Deep Well
			HS150			
			HS155			
Perforation Casing	60.3~127	5~15	110ksi		YB/T 4371-2014 or technical specification	perforating gun
			125ksi			
			130ksi			
			135ksi			
			140ksi			
Anti-CO ₂ Corrosion Tubing/casing	73.02~177.80	5.51~14.0	HS80-13Cr	S/L/B/HSM-1/HSM-2	API 5CT or technical specification	CO ₂ Enviroment
			HS85-13Cr			

● Introduction

Line Pipe Specification&Application

OD: $\phi 21.3\text{mm} \sim \phi 711\text{mm}$

WT: 2.8mm~59.5mm

Variety: Oil & Gas Transportation and offshore pipe line

Product Mix

API 5L Series				HS Series	Low Temperature Series
PSL1	PSL2			Sour & Offshore Service	ASTM A333/ A333M
	General Service	Offshore Service	Sour Service		
A/L210					
B/L245	BN/L245N	BNO/L245NO	BNS/L245NS	HSL245S/O	Gr3 Gr6
	BQ/L245Q	BQO/L245QO	BQS/L245QS		
X42/L290	X42N/L290N	X42NO/L290NO	X42NS/L290NS	HSL290S/O	
	X42Q/L290Q	X42QO/L290QO	X42QS/L290QS		
X46/L320	X46N/L320N	X46NO/L320NO	X46NS/L320NS	HSL320S/O	
	X46Q/L320Q	X46QO/L320QO	X46QS/L320QS		
X52/L360	X52N/L360N	X52NO/L360NO	X52NS/L360NS	HSL360S/O	
	X52Q/L360Q	X52QO/L360QO	X52QS/L360QS		
X56/L390	X56N/L390N	----	----	HSL390S/O	
	X56Q/L390Q	X56QO/L390QO	X56QS/L390QS		
X60/L415	X60N/L415N	----	----	HSL415S/O	
	X60Q/L415Q	X60QO/L415QO	X60QS/L415QS		
X65/L450	X65Q/L450Q	X65QO/L450QO	X65QS/L450QS	HSL450S/O	
X70/L485	X70Q/L485Q	X70QO/L485QO	X70QS/L485QS	HSL485S/O	Gr8
	X80Q/L555Q	X80QO/L555QO			
	X90Q/L625Q	X90QO/L625QO			
	X100Q/L690Q	X100QO/L690QO			

Threading Grade & Specification

Steel Grade	PSL	OD/mm	WT/mm	Specification
L175P/A25P	PSL1	21.3~508.0	2.8~59.5	API 5B API 5L or Technical Specification
L245/B				
X42/L290				
X52/L360				
X56/L390				
X60/L415				
X65/L450				
X70/L485				

Other Specifications of Line Pipe

GB: GB/T 9711-2011

ISO: 3183-2012,NACE MR0175/ISO 15156,

CSA: CSAZ245.1-14

KOC: KOC-MS-001 PT.1 REV.2 (2009) ,KOC-MS-018,

DNV: DNV-OS-F101-2013,

TOTAL: TOTAL GS EP PLR 201 REV.08,

And /Or Other Specification

● Premium Connection Introduction

HS Series

Variety	Size	Features	Application
HSM-1	2-3/8"~13-3/8"	Improved Buttress Thread、Reverse Angle Torque Shoulder、Metallic/ Cone Seal	Deep Well、High Pressure Gas Well
HSM-2	2-3/8"~13-3/8"	Hook Thread、Reverse Angle Torque Shoulder、Tapered Metal-to-metal Seal	Deep Well、Ultra Deep Well、Extended Reach Wells、Horizontal Well、High Pressure Gas Well and other Complex Conditions
HSM-3	2-3/8"~13-5/8"	Hook Thread、Reverse Angle Torque Shoulder、Tapered Metal-to-metal Seal	Deep Well、Ultra Deep Well、Extended Reach Wells、Horizontal Well、High Pressure Gas Well and other Complex Conditions
HSN	5"~13-3/8"	API Buttress Thread、90° Torque Shoulder	Rotating Casing Cementing, Casing Drilling, thermal Exploratory Well
HSFJ	2-7/8"~11-3/4"	Flush Joint, Hook Thread, Internal-External Shoulder, Internal-External Metal/Metallic Cone Seal	Well Repairing, Well Cementing by Small Gap
HSKS	13-3/8"~20"	Coarse Thread and Large taper、Easy Stabbing、Quick Running	Duct and Surface Casing
HSTS	2-3/8"~5-1/2"	flush、two step、metal/metal seal	working string

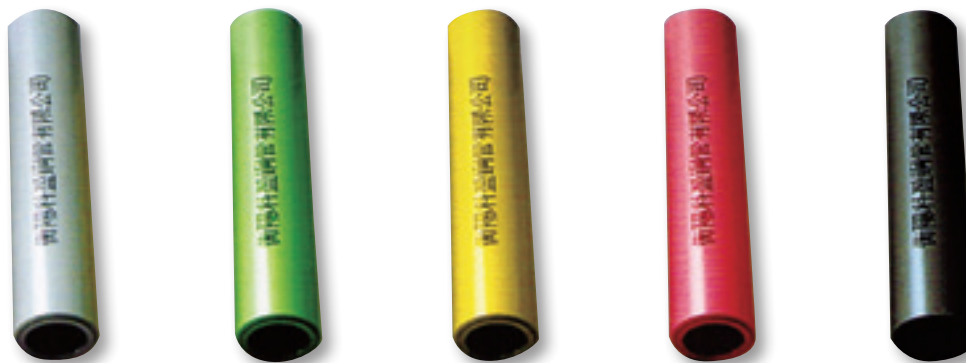
Ocean Engineering tube & pipe

Product	Size		Steel Grade	Specification	Features	Application
	OD (mm)	WT (mm)				
Legs	324~720	20~85	A517 Gr.Q	ASTM A517	Using hot rolling seamless tube & pipe instead of semi-circle plate; Using low finishing deformation temperature and large deformation quantity,more tiny uniform austenite grain size; Delivered by quenching+tempering condition to make the products obtain excellent tenacity and performance stability.	Jack-up ocean oil rig
Bracing & Pipe	114.3~720	5.0~85	X52Q X65Q X70Q X80Q X90Q X100Q	API 5L	To guarantee the basic strength, toughness and welding performance of the product by the composition of relative low C and high Mn content; To increase the material toughness and performance stability by using the micro alloy strengthening principle of elements Nb and Ti.	Jack-up ocean oil rig



Coating Tube & Pipe

It has an annual anti-corrosive processing capacity of 120 million square meters that the coating line has equipped with high level facilities and compatible small and large sizes in China. Main products: 2PE/3PE, 2PP/3PP, FBE/double FBE, internal coating with size range from $\phi 21.0\text{mm}$ ~ $\phi 800.0\text{mm}$. Such products are widely used in petro, nature gas, aviation and military oil transportation and exported to Sudan, Syria, Algeria, Tadzhikistan, Kuwait etc. for oil transmission projects.



Specification	Type of Anti-corrosion	OD	Min. Thickness of coating layer				
			EP		Adhesives	Total Thickness of Anti-corrosion Coating	
			General	Strong		General	Strong
SY/T0315-2005	FBE	DN $\leq$ 800	300 $\geq\mu\text{m}$	400 $\geq\mu\text{m}$	—	—	—
Q/CNPC38-2002	Double FBE	DN $\leq$ 800	Bottom Layer	250 $\geq\mu\text{m}$	300 $\geq\mu\text{m}$	—	—
			Surface Layer	370 $\geq\mu\text{m}$	500 $\geq\mu\text{m}$	—	—
			Total Thickness	620 $\geq\mu\text{m}$	800 $\geq\mu\text{m}$	—	—
GB/T23257-2009	3PE	DN $\leq$ 100	120 $\geq\mu\text{m}$		170 $\geq\mu\text{m}$	$\geq 1.8\text{mm}$	$\geq 2.5\text{mm}$
		100 < DN $\leq$ 250				$\geq 2.0\text{mm}$	$\geq 2.7\text{mm}$
		250 < DN $\leq$ 500				$\geq 2.2\text{mm}$	$\geq 2.9\text{mm}$
		500 $\leq$ DN < 800				$\geq 2.5\text{mm}$	$\geq 3.2\text{mm}$
		DN $\geq$ 800				$\geq 3.0\text{mm}$	$\geq 3.7\text{mm}$
DIN30670	2PE\3PE	DN $\leq$ 100	—	—	—	$\geq 1.8\text{mm}$	$\geq 2.5\text{mm}$
		100 < DN $\leq$ 250	—	—	—	$\geq 2.0\text{mm}$	$\geq 2.7\text{mm}$
		250 < DN $\leq$ 500	—	—	—	$\geq 2.2\text{mm}$	$\geq 2.9\text{mm}$
		500 < DN $\leq$ 800	—	—	—	$\geq 2.5\text{mm}$	$\geq 3.2\text{mm}$
		DN > 800	—	—	—	$\geq 3.0\text{mm}$	$\geq 3.7\text{mm}$
DIN30678	2PP\3PP	OD $\leq$ 100	—	—	—	$\geq 1.8\text{mm}$	—
		125 $\leq$ OD $\leq$ 250	—	—	—	$\geq 2.0\text{mm}$	—
		305 $\leq$ OD $\leq$ 500	—	—	—	$\geq 2.2\text{mm}$	—
		OD $\geq$ 600	—	—	—	$\geq 2.5\text{mm}$	—

Other specification: CNPC standard Q/CNPC38—2002; China industry specification: SY/T0413—2002, Canada specification: CSA Z245[1]. 20(21)—2014; German DIN30670.

Online inspection equipment: Coating thickness meter, thermometer, tensile meter, pinhole tester(with pictures); Test equipment: test piece making machine, impact checking machine, tensile testing machine, hardness meter, thermostat, drying cabin, low temperature cabin etc. the anti corrosion performances such as coating thickness, peel strength, shock resistance and tensile strength, yield strength, elongation etc with pictures.

Quality Management

HYST insists on his operation concept with “to seek the survival at his quality” and Management objective with “to focus on customers”. It develops the system and products certification as the propelling force and implements the quality policy by deepening the total quality management, process approach, continuous improvement of his product application and enhancement of the customers’ satisfaction. It improves the product’s stable quality by quality performance indicators to each individual person and standardization quality management.



System Certification

ISO9002:2000 approved in 1998; Quality Management Cert.in 1994;
ISO9001:2000 Change Edition in 2001; ISO9001:2008 Change Edition in 2008;
ISO10012:2003 Measurement Management System in 2008
Laboratory Cert. approved by China National Accreditation Service in 2008.



Product Certification

API 5CT、API 5L for OCTG and line pipe in 1999

TüV and ü Certificates for pressure vessel and building material products in 2000

API 5D for drill pipe in 2003

PED EU for pressure vessel products in 2003

Manufacturing license for pressure piping parts in 2006

CPD EU for Structural products in 2010

Vessel Classification Societies Certificates by China, United Kingdom, Germany, France, Norway, USA, Korea and Japan

Manufacturing license for civil nuclear safety equipment in 2013

API Logo Use Rights

API 5CT



API 5L



API 5DP



Second-part Qualification

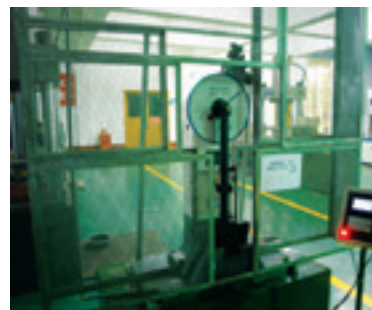
It was approved by famous oil companies from more than 100 different countries such as Shell, Mobil, Total, Chevron, Halliburton, Maersk, Petrofac, Alstom, Abu Dhabi, Petro China, Sinopec, CNOOC etc.

Inspection capability

HYST has his own laboratory approved by China National Accreditation Service and his approved inspection and calibration items cover 27 kinds of products with 129 parameters and 115 specifications, which cover four professional fields of materials testing, chemical analysis, NDT and calibration. There is a laboratory of metal material mechanical properties and physical properties, a chemical analysis laboratory, a corrosion resistant metal materials laboratory, a Full-size Test Lab for Casing and Tubing, measure and calibration laboratories, NDT laboratory, which equip with more than 170 sets of hydraulic pressure ,physical and chemical testing and other kinds of inspection/calibration equipment with 1000 million Yuan in fixed assets in total and the equipment level and test ability are in the leading position among domestic industry.



Tensile Tester



Impact Tester



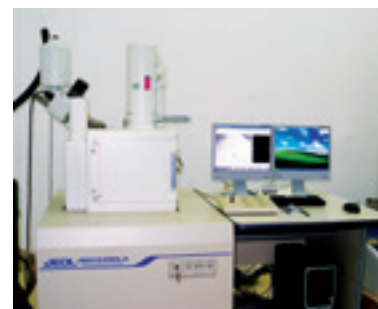
Hardness tester



Tube & Pipe technology Tester



Metallurgical microscope



Vertical Scanning Electron Microscope



Full-size Test Lab for Casing and Tubing



X-ray fluorescence spectrometer



Plasma spectrometer



Hydrogen Analyzer



Oxygen & Nitrogen Analyzer



600T Flattening Tester



Stress ring



Thermocouple calibration device



Direct-reading spectrometer



Energy meter calibration device



Individual parameters calibration device

Health, Safety, Environment

HYST always insists on his strategic development objective by "Green HYST" and it has fully reached the standard discharge on the industrial pollution sources in 2000. It has been approved by ISO14001 environmental management system certification, United Kingdom UKAS certification and OHSAS18001 occupational health and safety management system certification early in 2001 and 2002, which was one of the foregoers in the Chinese metallurgical industry. In June 2005 it was the first one published <HYST Environmental Protection White Book> in Hunan industrial enterprises.

In recent years, it has invested more than 650 million RMB to renovate and rebuild more than 70 major environmental pollution treatments and waste water recycling facilities, therefore it basically has reduced the industrial waste water to zero discharge, and the exhaust gas and noise to standard discharge. All industrial furnaces use the clean natural gas mixed with the self BF gas, harmless solid waste and reutilization is implemented at a 98% comprehensive utilization rate.

Many energy conservation and emission reduction technologies have been used such as the comprehensive utilization of BF gas, TRT (Blast Furnace Top Gas Recovery Turbine Unit), power generation, waste heat boilers, oxygen-enriched combustion, dry dust removal and sinter desulfurization etc.

In order to guarantee the effective operation of environmental protection facilities, HYST ensures a specialized environmental protection operations authority protects the sub-contract of the main facilities. The main pollutant of HYST has reached the international cleaner production level and/or the advanced domestic level and was the first one to pass the cleaner production auditing of Metallurgical industry in Hunan in September 2011.

It won "Hunan environmental century" Special Honorary Award in 2002, "Hunan environmental century" Industrial enterprise honorary award in 2007, "Hunan Two-create Model units", Hunan "garden style unit", and "Secondary safety production standardization Enterprise".

"National Advanced Unit for energy saving" in February 2013, "Advanced Unit of safe Production" and "Safety and Health Cup" awards for many years.





Marketing and Service

Main Customers

- CNPC
- SINOPEC
- CNOOC
- Shaanxi Yanchang Petroleum (Group) Corp.Ltd
- Shell
- Total
- Chevron Corporation
- Petroleo De Venezuela S.A.
- KOC
- SONATRACH
- PTT
- PDO
- SAIPEM S.P.A
- JGC
- SKE&C
- Samsung
- Petrofac
- Maersk oil company Denmark





Products Application

Products Application Aboard



Casing 139.7*9.19 L80-1 HSM-1 premium connection in Karshi oil field of Republic of Uzbekistan. Tubing 114.30x6.88 J55 Oman by Shell.

The sour-service line pipe in Project GC-24, EFP-120 of North Kuwait.

The sour-service and general condition line pipe in Project KOC and KNPC of Kuwait.

Line pipe for sour-service and general condition in Project BOROUGE 3 U & No. UO/10/B3/012 of U.A.E.



Line pipe in Project Bir Seba Field Development Phase of Algeria by JGC Japan.

Casing 368x22.5 K55 in PO#0000537 of Indonesia by Total.

Casing 339.72x10.92 K55 in PO4600003475 of Indonesia by Total.



Tubing & Casing OD 73.02, 88.9, 114.3, 139.70, 177.80, 244.48 J55/K55 in PO# DIPO130255 of Indonesia by Chevron.

Tubing & Casing OD 73.02, 88.9, 139.70, 177.80, 473.08 J55/K55 in PO# DIPO140005 of Indonesia by Chevron.



Products Application in China

Customer	Well Location	Size	Steel Grade	Connection Type	Well depth	Service Condition
Sinopec North-west Branch	YJ2-4#	244.48*11.99	P110S	BC	5118M	Anti-sulfur
Sinopec North-west Branch	TH12375#	193.7*12.7	P110S	BC	6113M	Anti-sulfur
Tarim oil field CNPC	TZ721-6H#	88.9*6.45	HS110SS	HSM-1	6052M	Anti-sulfur
Tarim oil field CNPC	TZ62-H16#	88.9*6.45	HS110SS	NU	5643M	Anti-sulfur
Tarim oil field CNPC	HA601-15#	200.03*10.92	HS110S	BC	6473M	Sour-service
Chuangqing explore CNPC	Menxi005-H3#	244.48*11.05	HS95S	BC	4989M	Anti-sulfur
Chuangqing explore CNPC	South Yolotan gas project of Turkmenistan	610*9.5	L360QS			Anti-H,S CO2
Tarim oil field CNPC	HA13-1	200.03*10.92	HS110SS	HSM-2	6720M	Sour-service
Chuangqing oil field CNPC	G46-012	177.8*9.19	HS95S	HSM-2	4192M	Sour-resistance
Shengli oil field Sinopec	Tuo 166-4	139.7*10.54	HS110H	HSN	2120M	Heavy oil thermal recovery
Tarim oil field CNPC	HA13-1#	177.8*10.36	HS110SS	BC	6850M	Sour-service
Liaohe oil field CNPC	Liao 155-2	177.8*9.19	HS110H	HSN	1500M	thermal recovery and anti-torsion
Xinjiang oil field CNPC	Chong18	177.8*8.05	HSTG80H	HSM-1	450M	200-300C0 Steam temperature
Chuangqing explore CNPC	Longshan 110	127.00.*9.19	HS95S	LC	3850M	Anti-sulfur
Tuha oil field CNPC	wenxi3-2322	139.7*9.17	HS110T	BC	2486M	Collapse-resistance
Tarim oil field CNPC	Mid-Tarim Gas No.1 Western project	323.9*10	L360QCS			Sour-resistance
Zhongyuan oil field Sinopec	Wei79-Side13#	101.6*7.8	P110	HSXC	3248M	
Zhongyuan oil field Sinopec		101.6*7.8	N80Q	HSXC		
Tianjin Company CNOOC	United west & south Bohai gas project	323.9*15.9	X70QO			Offshore

China Professional Seamless Steel Tube & Pipe Enterprise



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