



Hengyang Valin Steel Tube Co.,Ltd.



CATALOGUE OF OCTG / LINE PIPE



HYST 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, Chinery Co., Ltd, Beijing Tianhai Industry Co., Ltd, ZOOMLION and Sany etc.



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Company Profile

Hengyang Valin Steel Tube Co. Ltd. (hereinafter referred to as HYST) is a subsidiary of Hunan Valin Iron & Steel Group Co., Ltd. is one of the world's top five specialized seamless steel tube & pipe enterprises with total assets of 13.4 billion Yuan, which is a professional seamless steel tube & pipe manufacturing base containing iron, steel, tube & pipe and further processing. It has an annual tube & pipe capacity of 2 million MT with the most entire rolling mills, advanced equipment and complete product specifications.

HYST has now one set of 1080m³ blaster, three sets of curve caster with large, middle and small round billet sizes, five sets of tube & pipe rolling line named as $\phi 89$ MM Mill, $\phi 180$ PQF Mill, $\phi 219$ Assel Mill, $\phi 340$ MPM Mill and $\phi 720$ Hot Pilger Mill and two sets of tube & pipe upsetting line. Among which $\phi 89$ MM Mill, $\phi 180$ PQF Mill and $\phi 340$ MPM Mill are entire production lines with world advanced technology and equipment. And $\phi 720$ Hot Pilger Mill is the global current largest OD periodic mill.

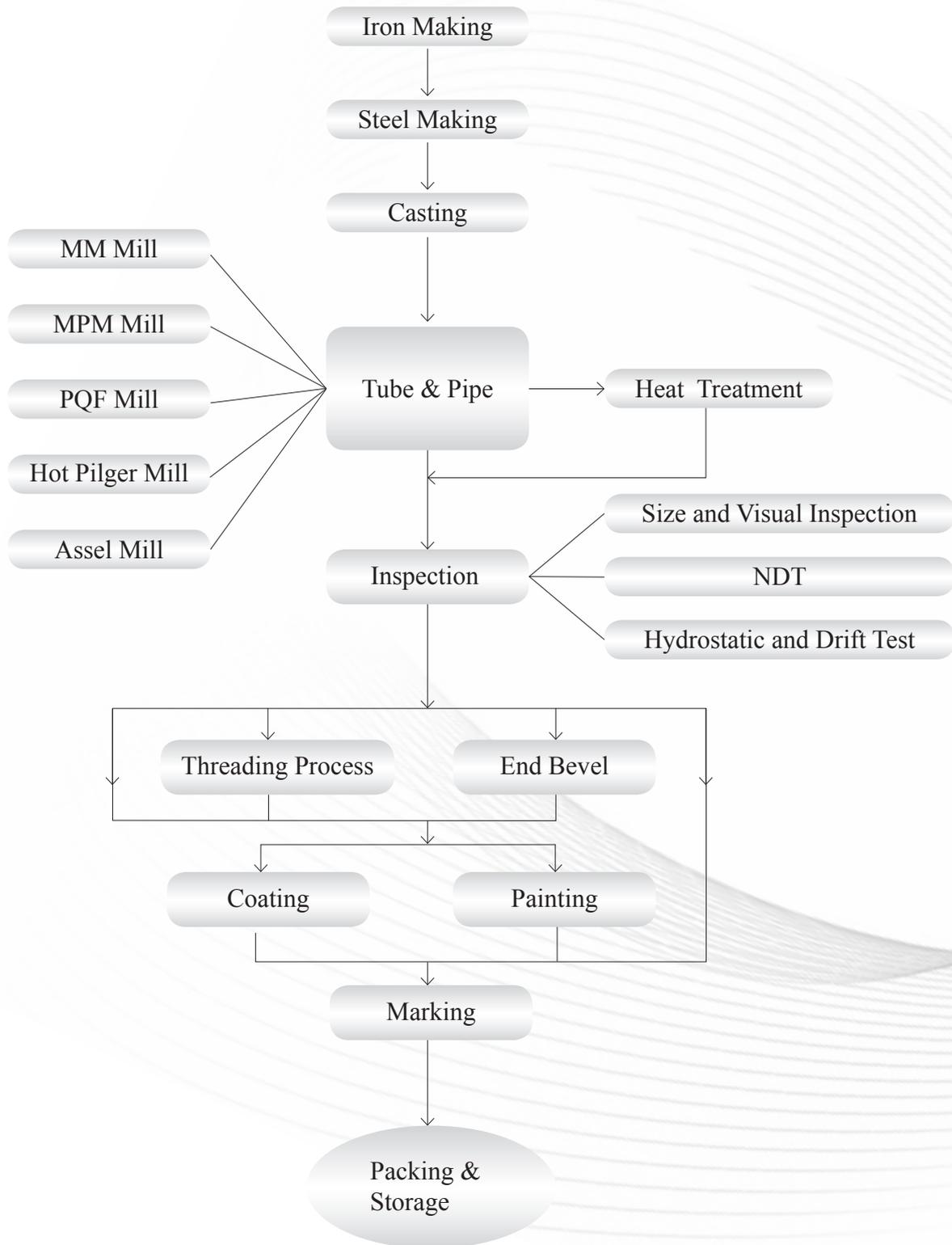
HYST is a seamless steel tube & pipe manufacturer with 50 years history, whose main products are OCTG, pressure vessel and mechanical processing with various specifications and sizes under OD800MM based on hot rolling and coating of anticorrosion technology.

HYST products are famous for his professional and special reputation both in domestic and oversea market, who is the main strategic supplier of Petro China, Sinopec, CNOOC, Shell, ExxonMobil, Zoomlion and etc. It has established his stable sales channels in domestic industries of petroleum, petrochemical, automobile, boiler, coal mining and chemical etc. His export markets cover over 80 global main regions and countries and export volume has continuously kept the leading position in China seamless tube & pipe industry for many years.

HYST keeps his development together with his customers and tries to transform himself from a manufacturer to an integrated server. It has achieved centralized management of production, supply and marketing to continuously improve the service capacity and customer's feedback. It has realized the Enterprise Resource Planning Management (ERP), an efficient & convenient e-commerce platform and a sales resource planning and on-time delivery system (DSP) so that it can run his dynamic integration control of company's capital flow, logistics and information.

At a new starting point HYST's objective is to become a global first class integrated server of specialized seamless steel tube & pipe with perfect and convenient systematic service.

Process Flow Chart



Technical Facilities

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



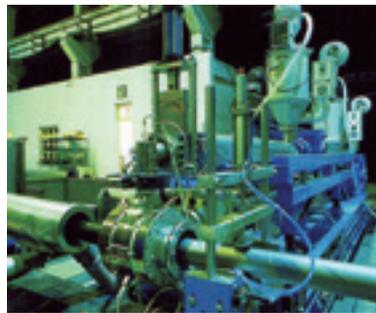
Φ180 PQF Mill



Φ219 Assel Mill



Heat Treatment Lines



Coating Line



Threading Lines

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							
	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	

API SPEC 5CT

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						
	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								
	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								
88.90(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	
	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								

API
SPEC
5CT

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 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 Sulfide-resistance Casing	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			
			HS80-1Cr			
			HS90-1Cr			
			HS110-1Cr			
Economical Anti-CO ₂ Casing	114.3~339.7	5.21~15.88	HS80S-3Cr	S/L/B/HSM-1/HSM-2	HK33-2011 or technical specification	CO ₂ Enviroment
			HS90S-3Cr			
			HS95S-3Cr			
			HS110S-3Cr			
Casing For Low-Temperature 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			
			HS125H			
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			
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			
			HS95-13Cr			
			HS95S-13Cr			
			HS110S-13Cr			

● Introduction

Line Pipe Specification&Application

OD: φ21.3mm~φ711mm

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					Gr.3
B/L245	BN/L245N	BNO/L245NO	BNS/L245NS	HSL245S/O	Gr.6
X42/L290	X42N/L290N	X42NO/L290NO	X42NS/L290NS	HSL290S/O	Gr.8
X52/L360	X52N/L360N	X52NO/L360NO	X52NS/L360NS	HSL360S/O	
	X52Q/L360Q	X52QO/L360QO	X52QS/L360QS	HSL360S/O	
X56/L390	X56N/L390N	X56NO/L360NO	X56NS/L390NS	HSL390S/O	
X60/L415	X60Q/L415Q	X60QO/L415QO	X60QS/L415QS	HSL415S/O	
	X60N/L415N	--	--	--	
X65/L450	X65Q/L450Q	X65QO/L450QO	X65QS/L450QS	HSL450S/O	
X70/L485	X70Q/L485Q X80Q/L555Q X90Q/L625Q X100Q/L690Q	X70QO/L485QO X80QO/L555QO X90QO/L625QO X100QO/L690QO	X70QS/L485QS	HSL485S/O	

Threading Grade & Specification

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

Other Specifications of Line Pipe

GB: GB/T 9711-2012

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	5"~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
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

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, Tadzshikistan, 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≤800	300≥μm	400≥μm	—	—	—	
Q/CNPC38-2002	Double FBE	DN≤800	Bottom Layer	250≥μm	300≥μm	—	—	—
			Surface Layer	370≥μm	500≥μm	—	—	—
			Total Thickness	620≥μm	800≥μm	—	—	—
GB/T23257-2009	3PE	DN≤100	120≥μm	170≥μm	≥1.8mm	≥2.5mm		
		100 < DN≤250			≥2.0mm	≥2.7mm		
		250 < DN≤500			≥2.2mm	≥2.9mm		
		500≤DN < 800			≥2.5mm	≥3.2mm		
		DN≥800			≥3.0mm	≥3.7mm		
DIN30670	2PE\3PE	DN≤100	—	—	—	≥1.8mm	≥2.5mm	
		100 < DN≤250	—	—	—	≥2.0mm	≥2.7mm	
		250 < DN≤500	—	—	—	≥2.2mm	≥2.9mm	
		500 < DN≤800	—	—	—	≥2.5mm	≥3.2mm	
		DN > 800	—	—	—	≥3.0mm	≥3.7mm	
DIN30678	2PP\3PP	OD≤100	—	—	—	≥1.8mm	—	
		125≤OD≤250	—	—	—	≥2.0mm	—	
		305≤OD≤500	—	—	—	≥2.2mm	—	
		OD≥600	—	—	—	≥2.5mm	—	

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.

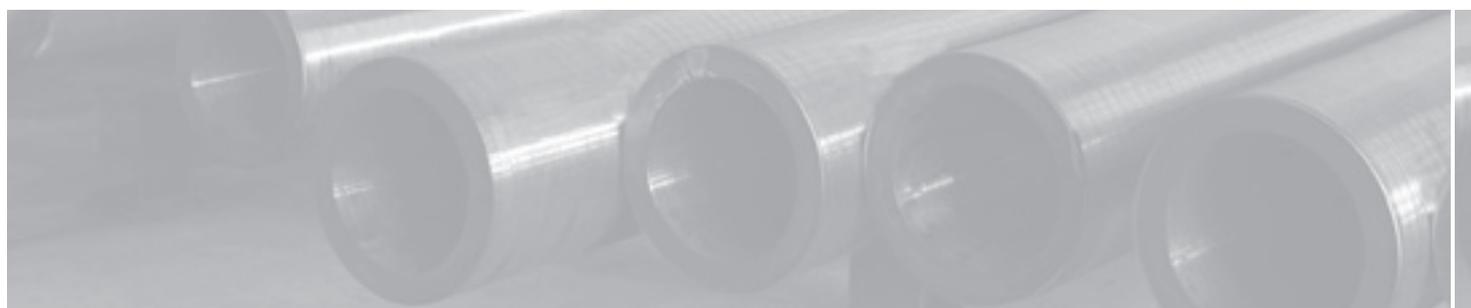
Quality Management

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

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

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 70 different countries such as Shell, Mobil, Total, Chevron Corporation, Alstom, Iraq, U.A.E, Petro China, Sinopec, CNOOC etc.



Inspection capability

HYST has his own Laboratory approved by China National Accreditation Service and with more than 170 sets of various inspection and test equipment. It can run his mechanical test, metallographic inspection and failure analysis of metal materials such as the metal room temperature tensile, high temperature tensile, impact, hardness, Flattening, flaring, expanding, tube & pipe ring tensile, bending, and flanging etc. It can also analysis the chemical contents of steel, alloy, iron ore, coke, coal and other auxiliary material. It has Anti-hydrogen sulfide corrosion test can be done on tube & pipe. It is available to have the measure meter, pressure gauge, thermoelectric couple, electricity, threading calibrated and set here.



Tensile Tester



Impact Tester



Hardness tester



Tube & Pipe technology Tester



Metallurgical microscope



Vertical Scanning Electron Microscope



X-ray fluorescence spectrometer



Plasma spectrometer



600T Flattening Tester



Hydrogen Analyzer



Oxygen & Nitrogen Analyzer



Direct-reading spectrometer



Stress ring



Thermocouple calibration device



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.
- Aramco
- KOC
- SONATRACH
- PTT
- PDO
- SAIPEM S.P.A
- JGC
- SKE&C
- Samsung
- Petrofac
- Maersk Sealand

