



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, 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 contained 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 1080m<sup>3</sup> 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.



# Technical Facilities

## Smelting Systems

One High Quality Iron Making 180m<sup>3</sup> Sinter+1080m<sup>3</sup> 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		
	OD Nom. (inch)	WT (mm)	K40	J55	K55	M65	L80-1, L80-10Cr, P95	N80-1, N80	C90	T95		C110	P110
114.30 (4-1/2")	5.21		S	S	S								
	5.69			S/R	S/B								
	6.35			S L B	L B	L B	L B	L B	L B	L B			
	7.37				L/B	L/B	L/B	L/B	L/B				
	8.55										L B	L B	
	9.59			S	S								
	10.43			S L B	S L B								
127.00 (5")	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		
	11.30				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		
	6.70	S	S	S									
	6.98			S L B	S L B								
139.70 (5-1/2")	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			
	10.52				L B	S L B	S L B	L B		S L B	S L B		
	7.32	S	S L B	S L B									API SPEC 5CT
168.28 (6-5/8")	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		
	9.72					S L B	S L B	L B		S L B	S L B		
193.68 (7-5/8")	8.73			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		
	15.85					L B	L B	L B		L B	L B		

Size		Steel Grade & Connection Type										Specification	
ODmm (inch)	WT/nim	H40	J55	K55	M65	L80-1, 13Cr	L80- R95	N80-1, N80Q	C90, T95	C110	P110		Q125
219.08 (8.58")	6.71		S	S	S								
	7.72	S	S-LB	S									
	8.93	S	S-LB	S-LB									
	10.16			S-LB	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		
244.28 (9.58")	8.93	S	S-LB	S-LB									
	10.02		S-LB	S-LB	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	L-B		
	15.11				L-B	L-B	L-B	L-B	L-B	L-B			
	8.89	S-B		S-B									
271.05 (10.54")	10.16	S-B	S-B	S-B									
	11.43	S-B	S-B	S-B	S-B	S-B	S-B	S-B	S-B	S-B			API SPEC 5CT
	12.57				S-B	S-B	S-B	S-B	S-B	S-B			
	13.84							S-B	S-B	S-B	S-B		
	15.11							S-B	S-B	S-B	S-B		
298.45 (11.54")	9.65												
	10.92					S-B				S-B			
	13.06					S-B				S-B	S-B		
	8.88	S											
339.72 (13.34")	9.65		S-B	S-B									
	10.92		S-B	S-B									
	12.19			S-B	S-B	S-B	S-B	S-B	S-B	S-B			
	13.06				S-B	S-B	S-B	S-B	S-B	S-B	S-B		
406.40 (16")	16.60												
508.00 (20")	16.13		S-LB										

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								
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
	7.82			N/U	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	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")	13.46								
	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									

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	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
	OD (mm)	WT (mm)				
Collapse-resistance Casing	114.3-139.7	5.21-15.88	H580T H580TT	S L B HSM-1 HSM-2	HK35-2011 or technical specification	Rock-salt layer, Deep and Complex Geological Condition
			H590T H590TT			
			H595T H595TT			
			H5110T H5110TT			
			H5125T H5125TT			
			H5140T H5140TT			
			H5150T H5150TT			
			H580S H580SS H580TS			
			H590S H590SS H590TS			
			H595S H595SS H595TS			
Hydrogen Sulfide resistance Casing	114.3-139.7	5.21-15.88	H5100S H5100SS	S L B HSM-1 HSM-2	HK34-2011 or technical specification	Hydrogen Sulfide Environment
			H5100FS			
			H5110S H5110SS			
			H5110FS			
			H580-1Cr			
			H590-1Cr			
			H595-1Cr			
			H5110-1Cr			
Economical Anti-CO <sub>2</sub> Casing	114.3-139.7	5.21-15.88	H580S-3Cr	S L B HSM-1 HSM-2	HK33-2011 or technical specification	CO <sub>2</sub> Environment
			H590S-3Cr			
			H595S-3Cr			
Casing for Low Temperature Environment	114.3-139.7	5.21-15.88	H580T	S L B HSM-1 HSM-2	Technical specification	Low temperature Environment
			H590T			
			H595L			
			H5110L			
Thermal Recovery Well Casing	114.3-139.7	5.21-15.88	H590H	S L B HSM-1 HSM-2 HSN	HK29-2011 or technical specification	Heavy Oil and Heat-resistance Environment
			H595H			
			H5110H			
			H5125H			
Deep Well Casing	114.3-139.7	5.21-15.88	H5140	S L B HSM-1 HSM-2	HK36-2011 or technical specification	Deep Well
			H5150			
			H5155			
Perforation Casing	60.3-127	5-15	H0kai		YK7-2011-2014 or technical specification	perforating gun
			H25kai			
Anti-CO <sub>2</sub> Compression tubing casing	73.02-177.80	5.51-14.0	H580-13Cr	S L B HSM-1 HSM-2	API 5CT or technical specification	CO <sub>2</sub> environment
			H585-13Cr			
			H595-13Cr			
			H595S-13Cr			
			H5110S-13Cr			

● Introduction:

**Line Pipe Specification & Application**

OD:  $\varnothing 21.3\text{mm} - \varnothing 71.1\text{mm}$

WT: 2.8mm - 59.5mm

Variety: Oil & Gas Transportation and offshore pipe line

**Product Mix**

PSL#	API 5L Series			HS Series Sour & Offshore Service	Low Temperature Series ASTM A333/A333M
	General Service	PSL2 Offshore Service	Sour Service		
A1L210					Gr.3
B1L245	B1L245N	B1N1L245N0	B1S1L245N5	HSL245S0	Gr.6
X42L290	X42N1L290N	X42N01L290N0	X42NS1L290N5	HSL290S0	Gr.8
X52L360	X52N1L360N	X52N01L360N0	X52NS1L360N5	HSL360S0	
	X52Q1L360Q	X52Q01L360Q0	X52QS1L360Q5	HSL360S0	
X56L390	X56N1L390N	X56N01L390N0	X56NS1L390N5	HSL390S0	
	X60Q1L415Q	X60Q01L415Q0	X60QS1L415Q5	HSL415S0	
X60L415	X60N1L415N				
X65L450	X65Q1L450Q	X65Q01L450Q0	X65QS1L450Q5	HSL450S0	
X70L485	X70Q1L485Q	X70Q01L485Q0			
	X80Q1L555Q	X80Q01L555Q0	X70QS1L485Q5	HSL485S0	
	X90Q1L625Q	X90Q01L625Q0			
	X100Q1L690Q	X100Q01L690Q0			

**Threading Grade & Specification**

Steel Grade	PSL	OD/mm	WT/mm	Specification
L175P/A25P L245/B X42L290 X52L360 X56L390 X60L415 X65L450 X70L485	PSL1	21.3-508.0	2.8-59.5	API 5B/API 5L or Technical Specification

**Other Specifications of Line Pipe**

GB: GB 19711-2012

ISO: 3183-2012/ENACE MR0175 ISO 15156

CNA: CSAZ245.1-14

KOC: KOC MS-001 P1.1 REV.2 (2009) /KOC-MS-018

DNV: DNV OS F101-2013

TOTAL: TOTAL GS F101R 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, Tadzikhistan, 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.





## 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







# 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	NV	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 <sub>2</sub> S CO <sub>2</sub>
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	HSTG80S H	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 Server



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