



MESHINE
For a better life

SHANDONG MESHINE THERMAL TECH CO.,LTD.

2024

WORLD-LEADING THERMAL TECH&EQUIP PRODUCTION R&D BASE



CONTENTS

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SHANDONG MESHINE THERMAL TECH CO.,LTD.



Locates in Gaoqing , ZIBO City, Shandong Province, China;



Plant area **92000m²** , Workshop area **40000m²**



Fixed assets **22 million USD** , and **5** advanced International auto-production lines;

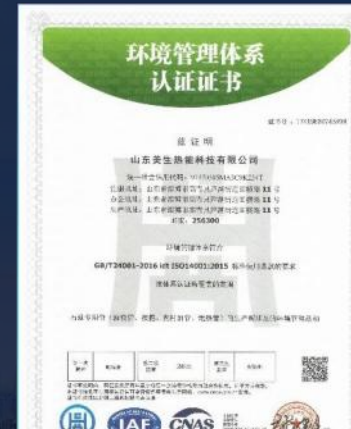
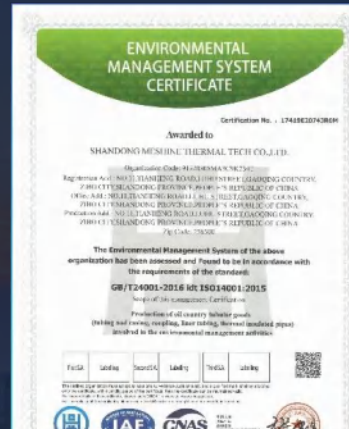


Staff over 80 of 20% intermediate and senior technical personnel;



API 5CT ,API Q1&ISO9001 QMS and HSE certificate;







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MESHINE THERMAL



Devoting to

**Petroleum Extraction
& geothermal energy
Exploitation Territory**

Hi-end Equip Manufacturing



Defining as

**Leading Thermal
Development Hi-end
Equipment**

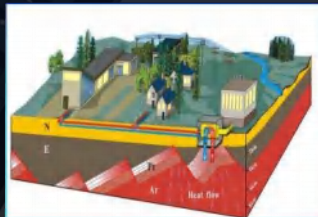
Direction



Building

**World-class Thermal
Development Equipment
Manufacturing R&D Base**

Objective





Main Products

ANNUAL OUTPUT **0.6million** M

VIT&VIC&AIT

ANNUAL OUTPUT **60,000** T

TUBING&DRILL PIPE UPSET

ANNUAL OUTPUT
0.1million T

API TUBING & CASING

ANNUAL OUTPUT **200,000** M

HDPE/EXPE TUBING

ANNUAL OUTPUT **0.5million** PCS

COUPLING

ANNUAL OUTPUT **20,000** T

NON-API TUBING&CASING&COUPLING



Thermal Development Institute

Heavy oil thermal
recovery equipment
R&D centre

- New VIT&VIC R&D
- Heavy oil thermal Recovery technology
- Heavy oil thermal recovery equipment

Geothermal
development
equipment R&D centre

National
Patent

National
computer
software
copyright

Ten more
new
products

Total 16 items,including 2
invention patents

7 Items

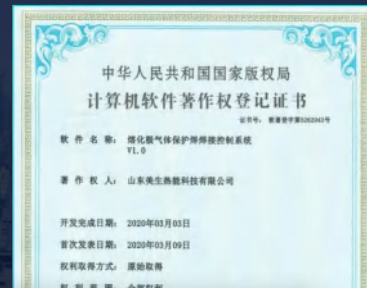
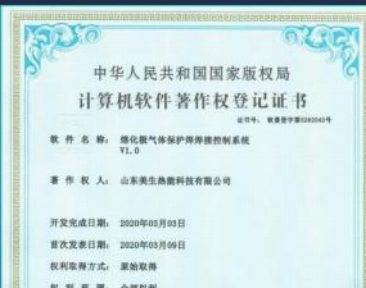
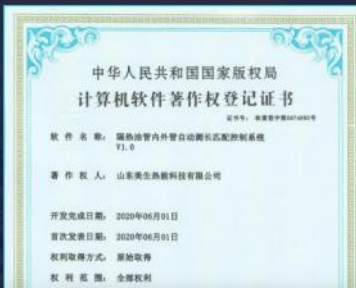
- VIT&AIT&GIT
- Ground thermal transfer pipeline

- A professional technical team;
- 30 Years experience in heavy oil thermal recovery and VIT R&D;



16 National patents;
2 Invention patents;

7 Computer software
copyright patents;



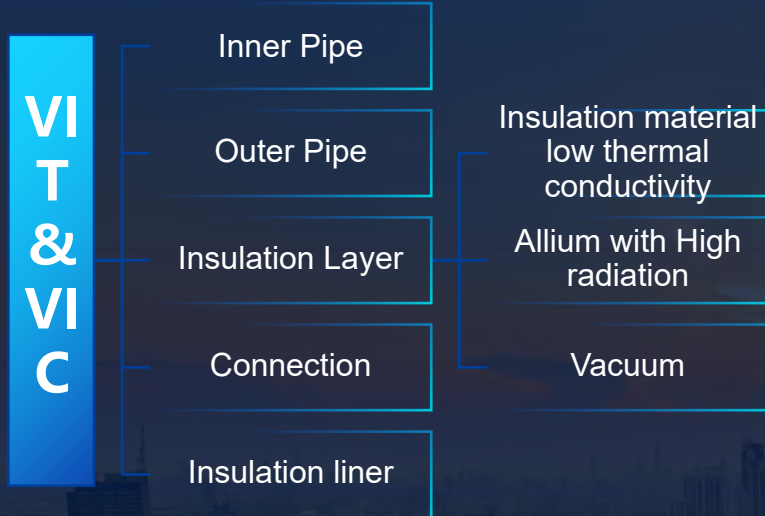


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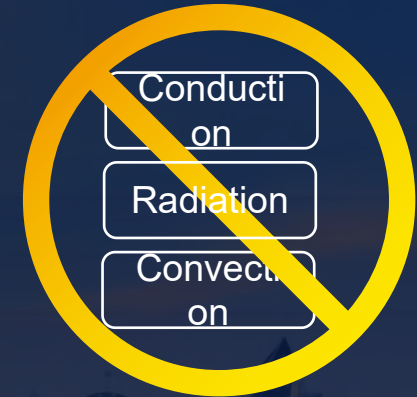
SHANDONG MESHINE THERMAL TECH CO.,LTD.

PRODUCT INTRODUCTION

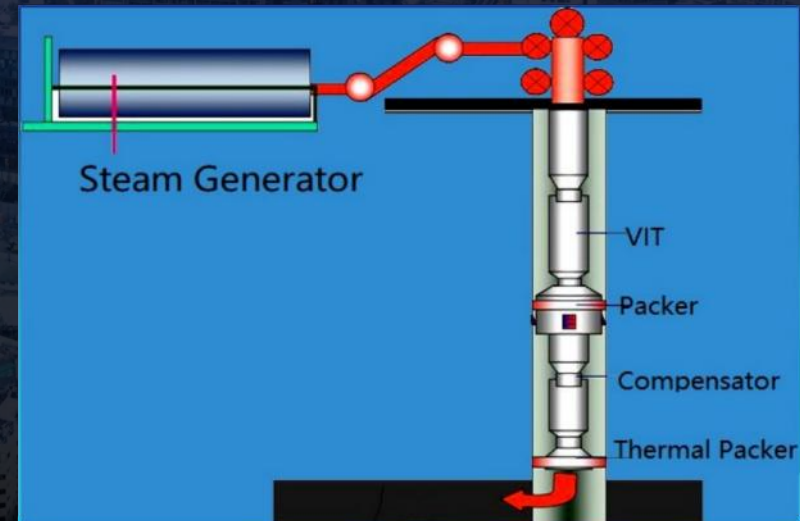
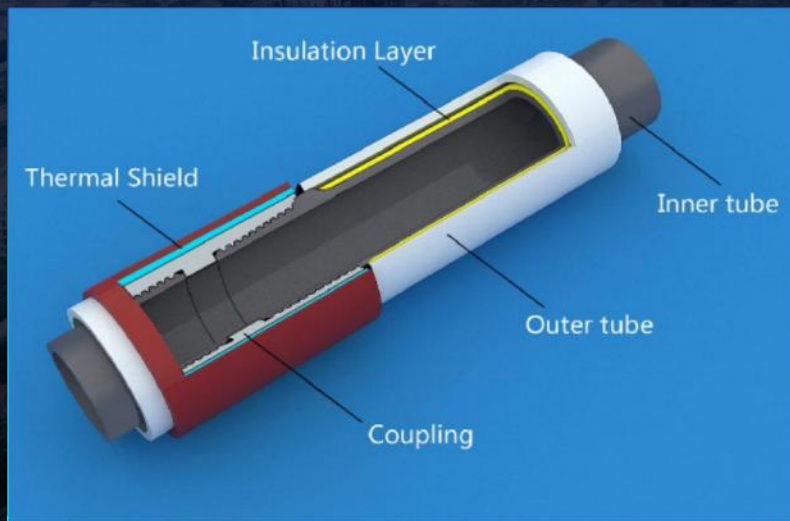
Core Products--- Vacuum Insulated Tubing and Casing



Effectively Block

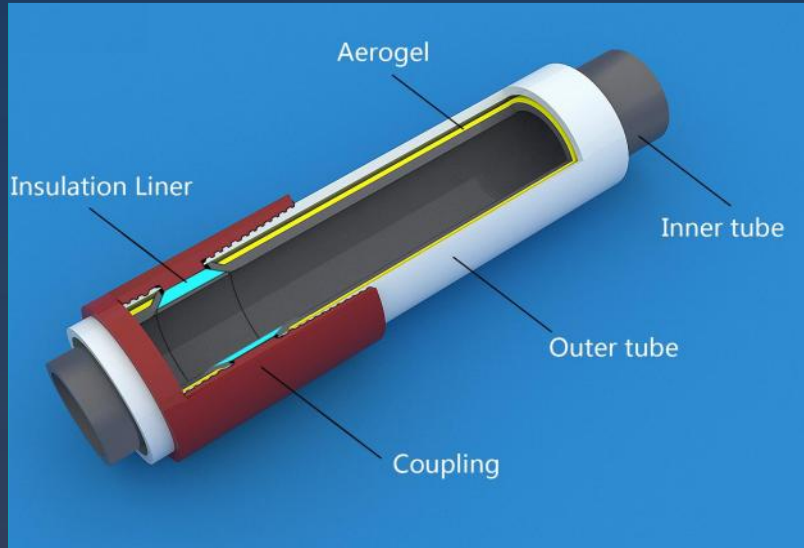


VIT and thermal transfer pipeline based on this technology, reached the international advanced level.

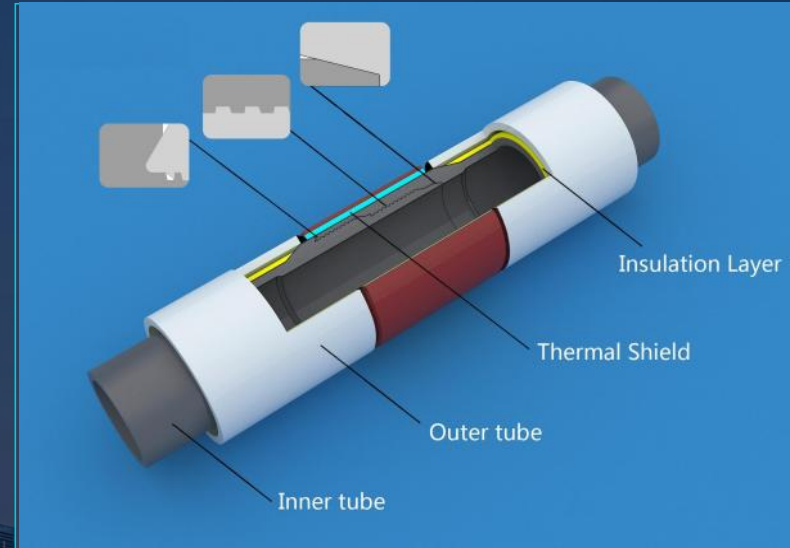


VIT product type:

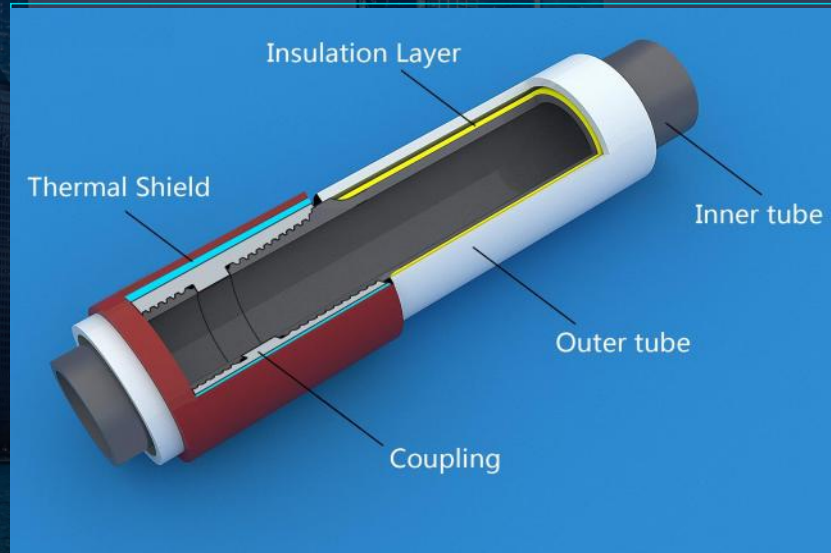
Spec.	73*40	89*50	114*62	114*76	127*76	139*101
	177*124	219*161	244*177	298*244		
Grade	J55	N80-1	N80-Q	L80-1	P110	Anti-CO2/H2S material
Structure	Outer CPLG connector		Inner CPLG connector		Inner Integral connector	
Connection	BC	EU	LC	SC	MS-HT	VAM series
	Integral TS-HP					
Insulation	VIT&VIC		AIT			
Others	Based on customer requirements, research and design of different specifications, steel grade (material), structure of VIT&VIC					
S&T Project	Undertake Science Technology projects and test bases for S&T projects					



Outer CPLG VIT



Inner integral VIT



Inner CPLG VIT



Maximum and most comprehensive

The maximum and
most comprehensive
specification of VIT
bushing in the world



R&D and Customized

Develop and design the
corresponding VIT
according to the
customer's well condition,
process and demand

VIT&VIC

Reducing heat loss

Improving injection steam quality

Extending operation cycle

Improving OSR

**Heavy oil thermal recovery;
CSS;
Steam flooding;
SAGD;
Offshore oil production;**

Lower casing temp&reducing thermal expansion

Avoiding thermal well casing damage

Maintaining transfer oil temp

Effectively inhibit paraffin crystallization and frosting





Unique internal and external product identification transformation system to ensure the traceability of product quality;



The internal and external pipe auto-matching system with independent intellectual property rights ensures the accuracy and precision of matching;





Automatic blasting equipment recorded by computer of the total blasting time to determine the quality



Blasting and rust removal level up to SA2.5 to ensure the radiance of the product surface



Self-developed blasting quality control system software declared the national computer software copyright





Inner and outer pipe and insulation material heating and degassing treatment



To ensure that there is no adsorbed gas, oil and vacuum pollution in the process of application



Furnace temperature control system with functions of multi-point temperature control, slow rise and fall and temperature recording, and precise heating control





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PRODUCT INTRODUCTION

AU
TO

Automatic insulation layer wrapping machine;

Effectively improve work efficiency, improve the cleanliness of insulation layer;





The girth weld welding equipment is independently developed for the combined weld type



The welding operation control system is independently developed and obtained the national computer software copyright



Welding machine and wire feeder adopted international advance EWM



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计算机软件著作权登记证书

证书号：软著登字第262043号

软件名称：熔化极气体保护焊接控制系统
V1.0

著作权人：山东美生热能科技有限公司

开发完成日期：2020年03月03日

首次发表日期：2020年03月09日

权利取得方式：原始取得

权利范围：全部权利

登记号：2020SR0383347

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No. 05804431



2020年04月27日



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PRODUCT INTRODUCTION

Jointly developed with Chinese Academy of Sciences the special "mechanical pump + Roots pump + molecular pump" high-end vacuum unit

The three-stage vacuum operation system declared the national computer software copyright

Vacuum equipment with strong capacity and stable performance.
Vacuum capacity reach 10⁻⁵Pa

The first vacuum system and pipes in China are made of stainless steel, which improves the vacuum degree of the product.





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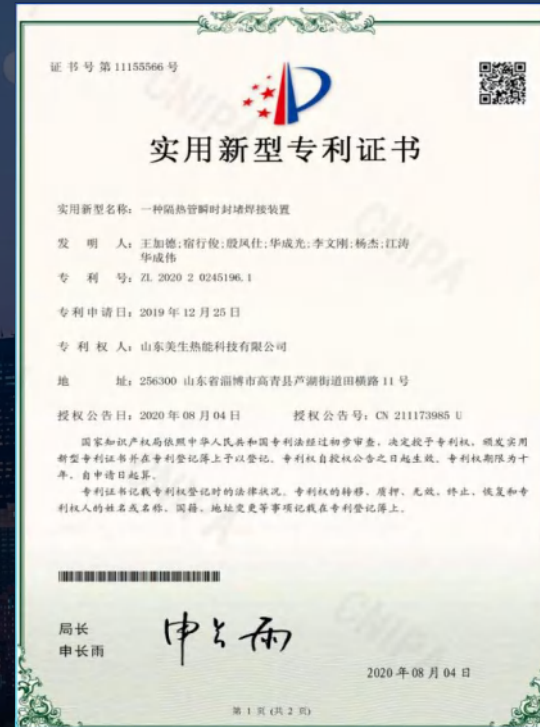
SHANDONG MESHINE THERMAL TECH CO.,LTD.

PRODUCT INTRODUCTION

The self-designed "vacuum instantaneous plugging technology" won the national utility model patent, which can effectively improve the qualified rate of product plugging and solve the problem of "stalling and failure" in the drilling operation of pipe string



Plug welding with PT inspection for 100%

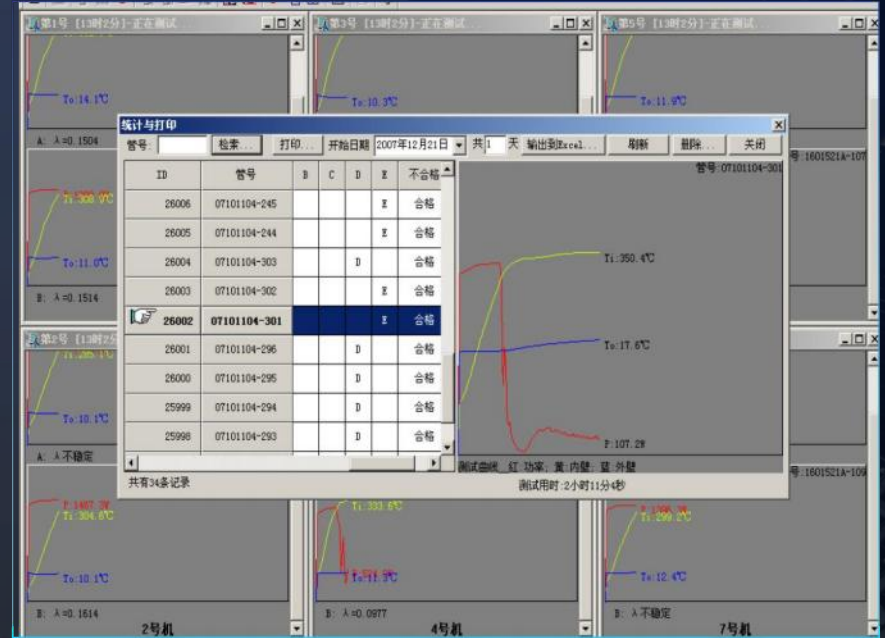




Auto apparent thermal conductivity device detects the insulation performance, real-time display of inner & outer wall temperature, heating power & apparent thermal conductivity



100% apparent thermal conductivity test, and achieve permanent traceability





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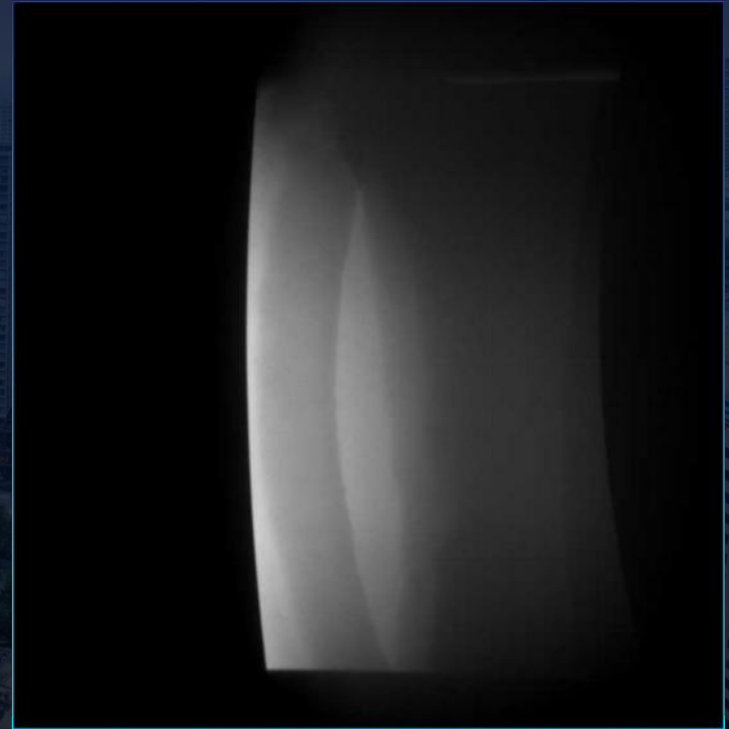
SHANDONG MESHINE THERMAL TECH CO.,LTD.

PRODUCT INTRODUCTION

Girth weld inspection apply US
PELLMAN & French THALE technology;
Strictly following GB/T3323.2(EN1435);



X-Ray online inspection
With 100% and 360°





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PRODUCT INTRODUCTION

Core Products--- Tubing and Casing



API OCTG Products

Production Lines:

Upset line, Coupling and parkerising line, OCTG threading line;

Spec.: Tubing: 1.9 -- 4-1/2in; Casing: 4-1/2--9-5/8in;

Grade: J/K55, N80 1/Q, L80-1, L80-13Cr, P110 as per API PSL1/2;

Standard: API 5CT, API 5B and customer requirements;



Auto OCTG processing line

Meet the requirement of API OCTG, and ensure the production and processing of VIT



Manufacturing facility



Inspection Facility

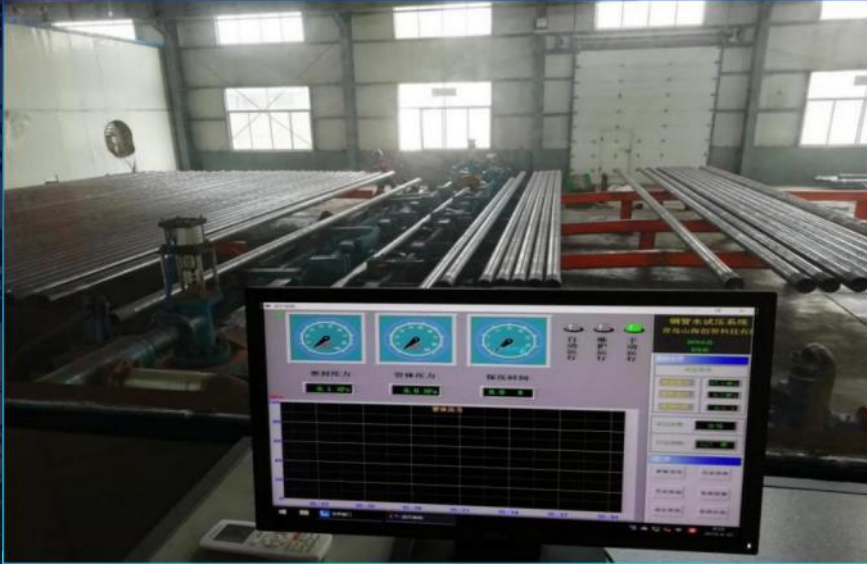




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PRODUCT INTRODUCTION

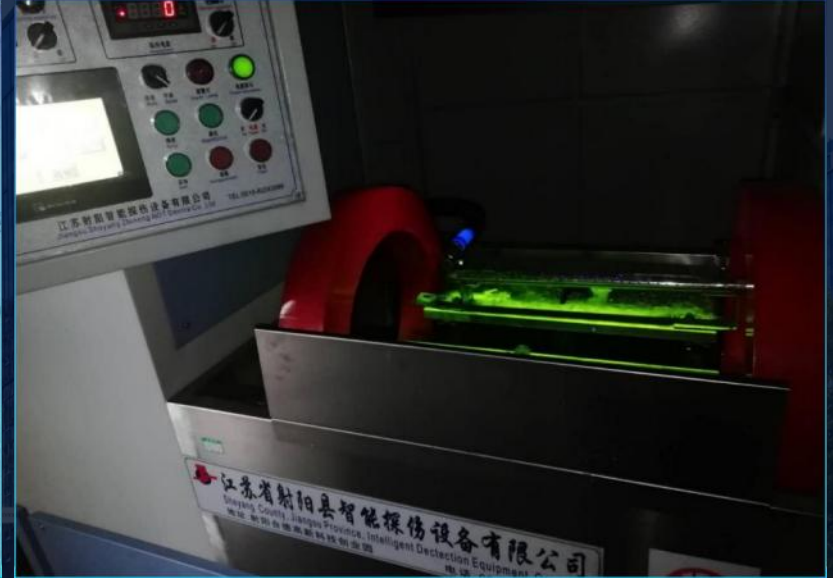




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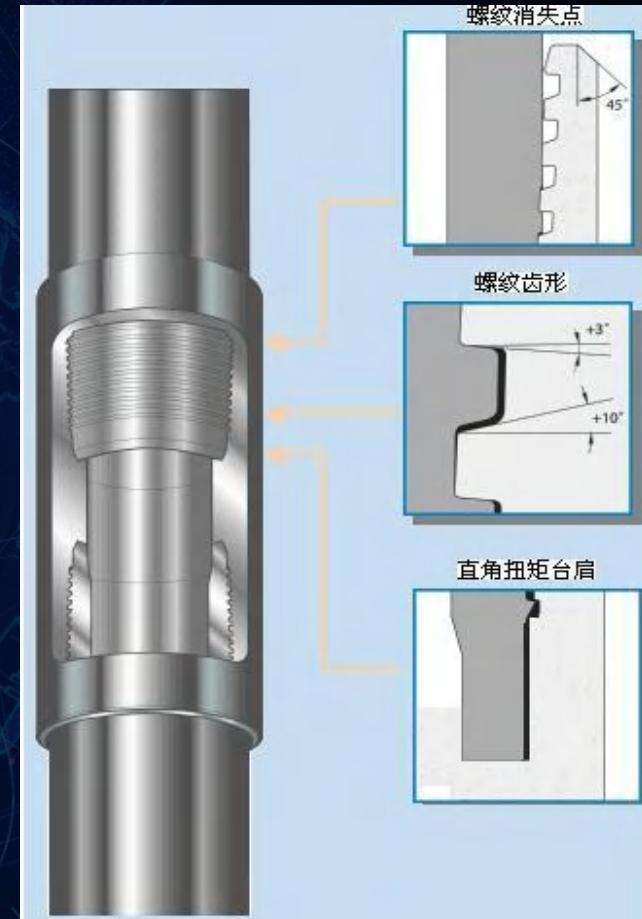
PRODUCT INTRODUCTION





Premium Connection Tubing—MS-1T(BC-HT)

- 1)The right Angle torque shoulder can realize accurate control of the buckling torque and reduce the circumferential stress of the threaded joint;
- 2)The thread can withstand large torque, and the sleeve can be rotated to make it run smoothly;
- 3)The tooth shape of the thread is the same as the API partial ladder thread, which can be exchanged with BC;
- 4)Unique thread interference fit design, thread sealing performance and strong anti-sticking ability.

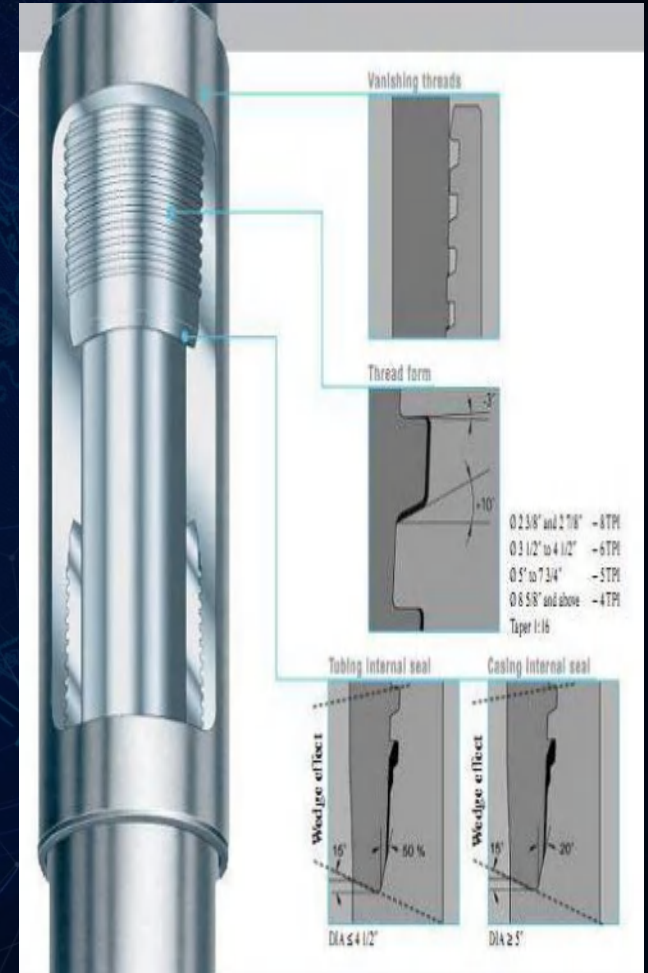


Premium Connection Tubing—MS-2T(VAM TOP)

MS-2T is multiple connection and interchangeable with vam top;

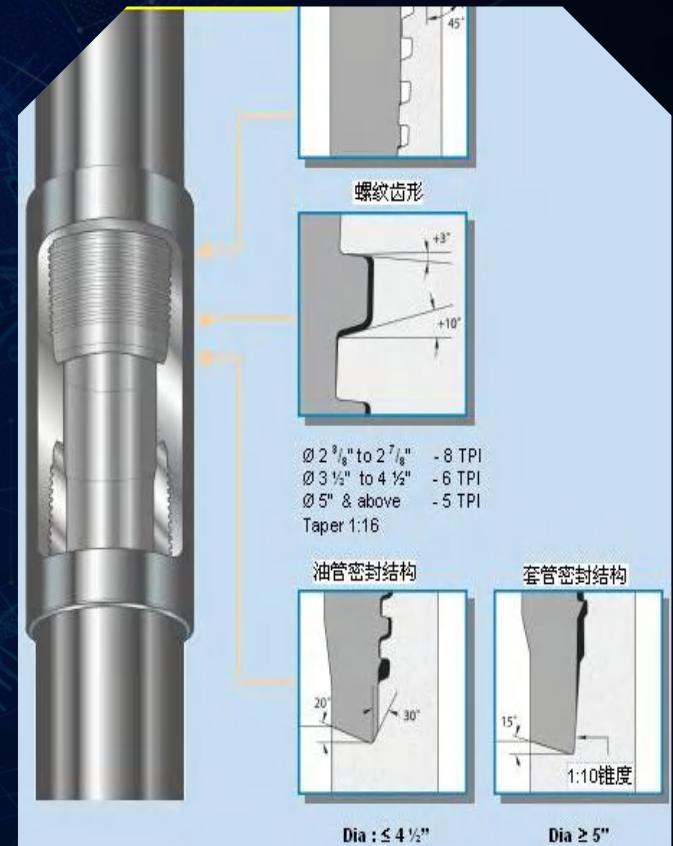
Main advantages:

1. Good anti-bending and anti-compression and good torque performance;
2. The gas seal performance is stable and reliable under various compound loads;
3. Easy for application and repairment;



Premium Connection Tubing—MS-3T(NEW VAM)

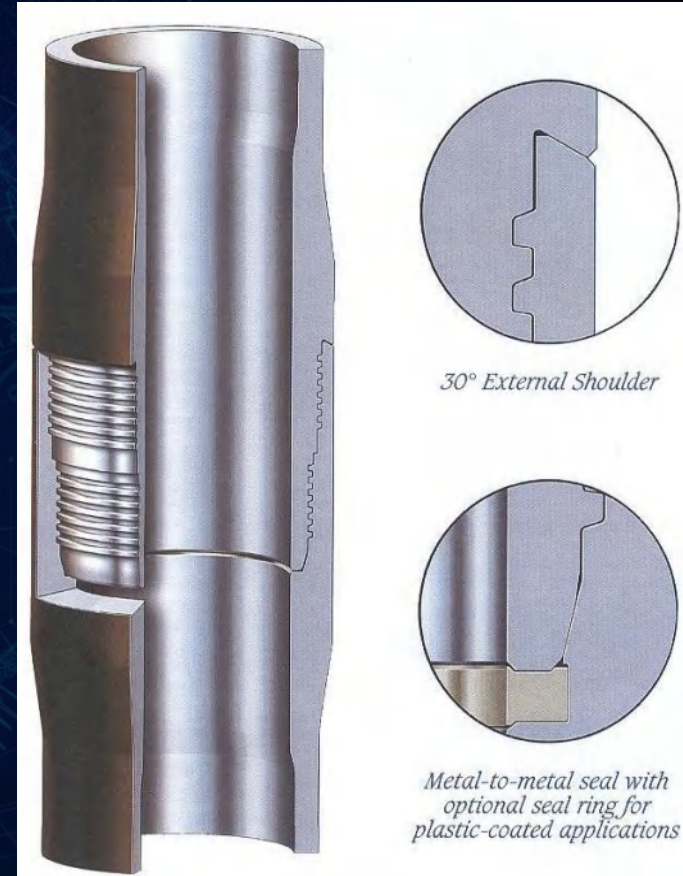
- 1)MS-3T is a versatile threaded tubing connector that is interchangeable with the NEW VAM;
- 2)It has high connection strength and good sealing performance;
- 3)This type of design has been widely used in oil fields around the world;





Premium Connection Tubing—MS-5T(HYDRIL CS)

- 1)The performance of MS-5T is similar to Tenaris' Hydril CS and Hunting TS-HP;
- 2)The sealing structure of MS-5T is interference fit of metal surface, and the structure of internal and external sealing surface ensures good sealing effect under extremely harsh conditions;
- 3)The double 90° shoulder design of the MS-5T gives the thread excellent torsional and bending resistance.
- 4) MS-5T has the advantages of fast and convenient make up and break out, high tensile strength, and good tensile, compressive and bending performance.





Coated Tubing—EXPE Tubing

Wear-resistant anticorrosive tubing is a composite tubing made by lining the inner wall of tubing with ultra-high molecular weight poly, through the special process of cold rolling and reducing diameter and traction into the inner cavity of API tubing, and then through thermal failure, so as to completely fill the annular gap between the tubing and the liner to form interference connection.

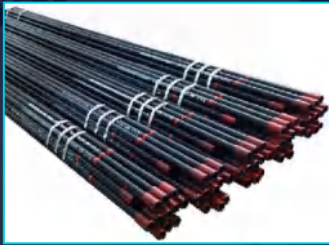
The wear-resistant anticorrosive lining tubing has excellent wear resistance and excellent flexibility, which can effectively prevent the damage of the lining pipe by oil well operation or cable. It can not only be used in all oil Wells where there are problems of tube and rod offset wear or corrosion, but also in all kinds of oil, water and gas Wells.





Other Products

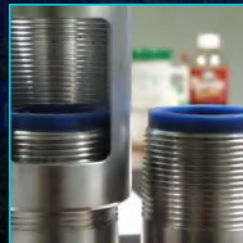
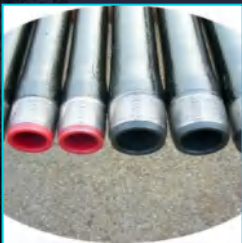
OCTG



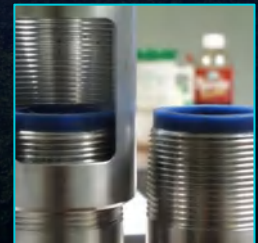
COUPLING



HDPE



UPSET



PRODUCT QUALITY CONTROL

Source Control

As per API Q1&ISO9001 to do supplier certificate review and annual audit

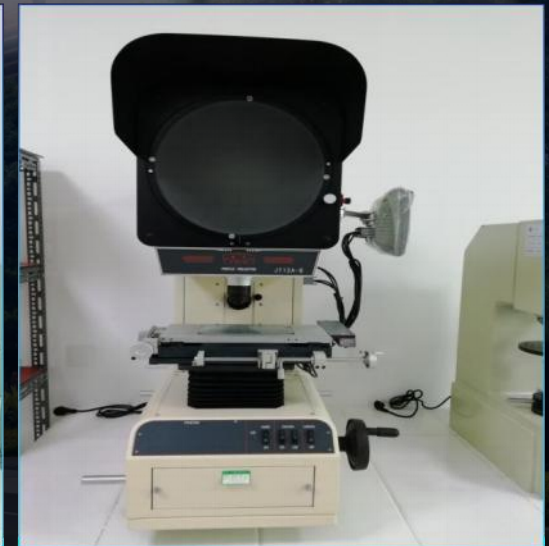
Process Control

Key resources purchasing process under control by company staff

Incoming Control

Spectral analyzer, automatic impact testing machine mechanical performance universal testing machine, hardness tester, optical projector and so on a variety of testing and analysis equipment







VIT&VIC

International

EUROPE
AMERICA
MIDDLE EAST

Domestic

CNPC
CNOOC
SINOPEC
GEOTHERMAL

Domestic and oversea

CNPC
CNOOC
SINOPEC
NORTH AMERICA

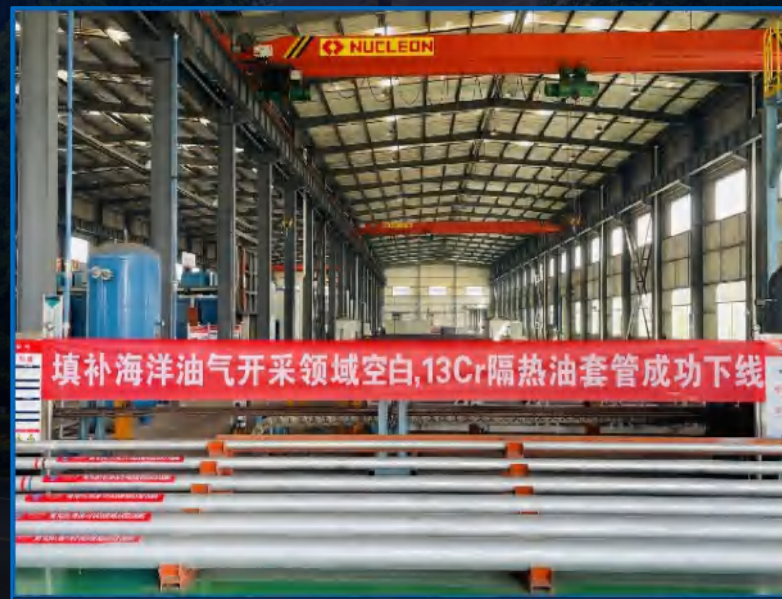
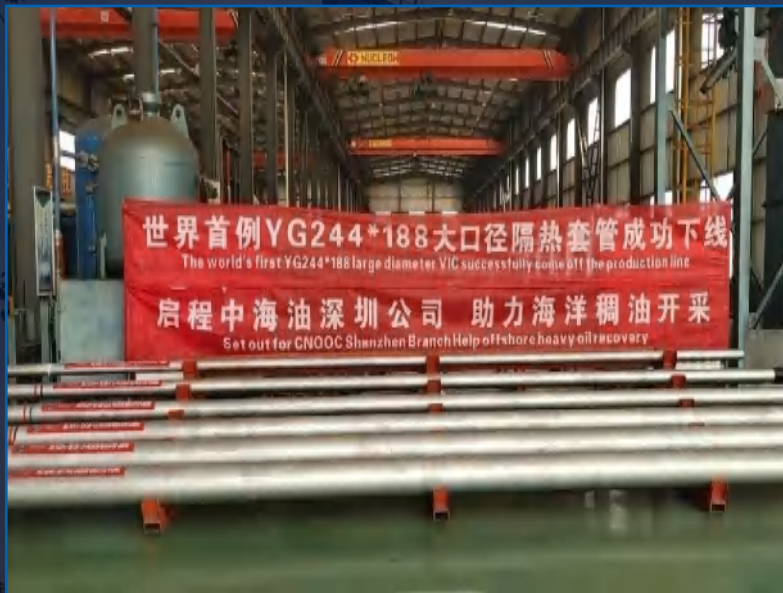




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AFTER-SALE SERVICE





- Pass Sinopec qualification---become SINOPEC VIT/VIC qualified supplier;
- Win the bidding of CNOOC 2020-2023 Procurement framework and becoming CNOOC TIANJIN VIT/VIC preferred supplier;
- Win the bidding of CNOOC SHENZHEN 244*188 VIC and 13Cr-L80 VIT of filling in the gaps in the field of China;
- South America:Columbia and Venezuela;
- North America:SAGD of Canada oil sand;



Technical Sales Service

Professional service team with technicians and sales providing fully service for clients

Providing site technical service and training If needed;

Providing suggestion for products application plan if needed

Feedback within 12 hour and arrive site to solve within 24 hours in China;



THANK YOU

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