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1.1 Introduction to Service Capacity



- The technical service of tubing and casing testing and repair is a complete set of testing and repair processes for used tubing and casing in accordance with API standards, such as cleaning, flaw detection, repairing and pressure testing. It prolongs the life cycle of tubing casing and is an important means to reduce the cost of oil field. Tubing and Casing Testing Branch is the earliest independent third-party testing institution in China to carry out the integrated service of tubing and casing testing and repair, and is also the only independent third-party inspection institution in China to put forward this project to the international market at present. Tubing and Casing Testing Company can provide tubing and casing agent sales, quality inspection, air seal testing, well entry service, processing and repair, coating anticorrosion, warehousing operation and other integrated services.
- The Tubing and Casing Testing Company has a total asset of 200 million yuan, has 2 production bases and 6 production lines, 2 on-site testing teams and more than 150 domestic leading testing and repair integrated equipment. It has 90 professional and technical staff, including 14 with thread testing qualification, 4 with China Nondestructive Inspection Society qualification, 45 with various special operation qualifications. The company covers an area of 300 mu with daily inspection capability of 3000 pieces/day and repair capacity of 500 pieces/day.

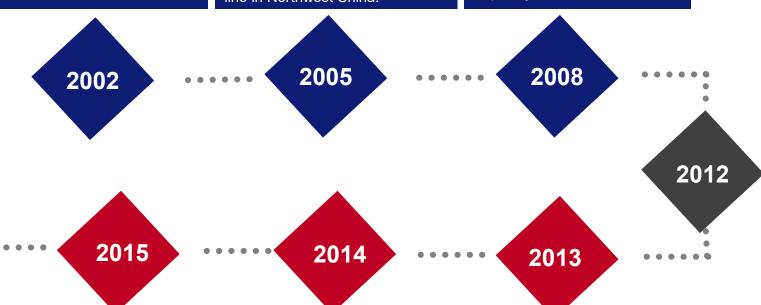
1.2 Development History

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Luntai construction 1 # tubing repair production line, becoming the first tubing repair service provider in the work area

Korla built two casing repair production lines, becoming the first casing repair service provider in the area, and the only inner coating anticorrosion production line in Northwest China.

Luntai construction 2 # tubing repair production line; Korla established tubing short piece processing capacity



Establish technical service capability for casing up-hole

The construction of API workshops in Hafaya, Iraq for repairing tubing and casing, and cleaning and repairing downhole tools and Christmas trees indicate that tubing and casing companies have officially gone abroad.

Luntai construction 3# tubing repair production line, becoming the most advanced special tubing repair production line in the area.

Korla established the service ability of downhole tool thread finishing.

1.3 Qualification Capability - Industry ANTON 安東





Certification Certificate Authority		Certification Scope	Certification Period
API 5CT Anton Petroleum	American Petroleum Society	Tubing and casing, short joints, couplings, tubing and casing accessories, thread lathes	2014.02-2017.02
API 7-1 Anton Petroleum	American Petroleum Society	Square drill pipe, crossover joint; rotary ledge connection thread	2014.02-2017.02
API 5CT Anton Tongao	American Petroleum Society	Tubing and casing, short joints, couplings, tubing and casing accessories, thread lathes	2016.09-2019.09
API 5CT Xinjiang Tongao	American Petroleum Society	Tubing and casing, short joints, couplings, tubing and casing accessories, thread processing and manufacturing	2014.12-2017.12

1.3 Qualification Capability - Industry ANTON 安東









Certificate	Certification Authority	Certification Scope	Certification Period
Quality management system certification	Beijing Zhongjing Kehuan Quality Certification Co., Ltd.	Repair and anti-corrosion of oil pipes	2017.01-2018.09
Environmental management system certificate	China Petroleum Health Safety Environment Audit Center of Beijing	Processing and manufacturing of special pipes for petroleum	2017.01-2018.09
China petroleum health, safety and environmental management system certificate	China Petroleum Health Safety Environment Audit Center of Beijing	Processing and manufacturing of special pipes for petroleum	2017.01-2019.01
Occupational health and safety management system certificate	China Petroleum Health Safety Environment Audit Center of Beijing	Processing and manufacturing of special pipes for petroleum	2017.01-2019.01

1.4 Qualification Capability - Authorizatio ANTON 安東







Authorized Manufacturer	Authorization Scope	Authorization Period	
Tianjin Steel Pipe Co., Ltd.	TP-JC, TP-CQ, TP-FJ, TP-TS Spigot	2015.06.30-2017.07.01	
Baosteel Co., Ltd.	BGT1, BGT2, BGC Spigot	2016.12-2017.12	
Japan JFE	BEAR Spigot, FOX Spigot	Long-term	

1.5 Qualification Capacity - Admittance ANTON 安東



Admitted Unit	Admitted Scope	Effective Period
PetroChina Energy Network 1	Straight seam casing, seamless casing tubing and casing short joints and other 35 items	2016.04.30-2017.04.30
CNOOC Material Admittance	Tubing and casing, tubing and casing coupling, tubing and casing short joints	Long-term
PetroChina Tarim Oilfield Straight seam casing, seamless casing tubing and casing short joints and other 34 items		2016.04.30-2017.04.30

1.5 Qualification Capacity - Admittance ANTON 安東





New Vendor Registration Form 斯伦贝谢供应商注册登记表

To be filled by New Ver	ndor: (由供应商填写)		Ver.1.0		
Full name of Vendor (English):	Anton Tongao technology industry Limited by Share Ltd				
*公司名称 (中文):	安东通奥科技产业股份有限公司				
Address (English):	Xinjiang Korla economic and Technologic	al Development Zone Anch	en Road No. 397		
*公司地址 (中文):	新疆库尔勒市经济技术开发区安晨大道38)7号			
*Contact 联系人:	孙晓明	Post code 邮编:	841000		
*Telephone No. 电话:	18083998333	*Fax No. 传真:	0996-2252806		
*Email 电子邮件:	sunxiaoming@antonoil.com				
*VAT or TAX No. 税务 登记证号:	652801 7817 84193				
Payment Currency 付 款货币:	人民币				
Bank Code 银行代码	105888000119 *Destination. 汇入 新疆省库尔勒市县				
*Bank account name	Anton Tongao teo	Anton Tongao technology industry Limited by Share Ltd			
*账户开户名称:	安东通奥科技产业股份有限公司				
*Bank Name	Branch of China Co truction Bank Corp of Korla economic and Technological Development Zone				
*银行名称:	中国建设银行股份有限公司库尔勒经济技术开发区支行				
*Bank address	Korla economic and Technological Development Zone				
*银行协计:	医尔勒经济技术开发区				

Admitted Unit	Admitted Scope	Effective Period	
PetroChina Tarim Oilfield	Pipe cleaning, testing, pressure testing, repairing and processing; anti-wear and anti-corrosion technical service for pipes	2016.08.17-2017.07.31	
Sinopec Northwest Bureau	Cleaning, testing and repairing of tubing and sucker rod; anticorrosive inner coating of tubing inner wall	2016.09.19-2017.09.18	
Schlumberger, Beckhughes, NOV	Downhole tool processing	Long-term	

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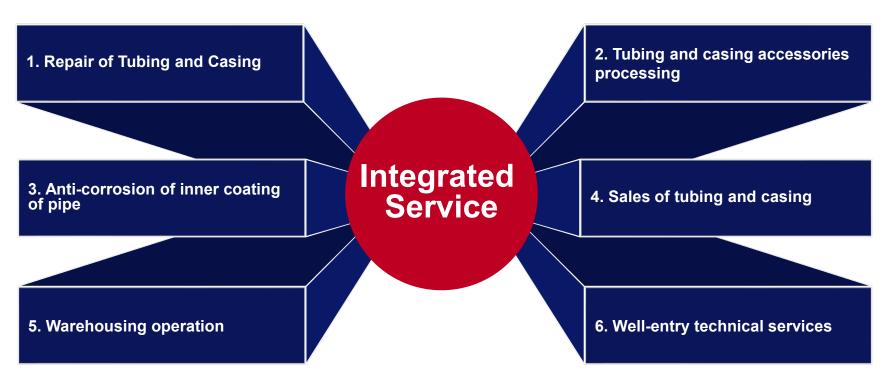
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2.1 Integrated Service of Tubing and CasiAgNTON 安東



Description: The technical service of tubing and casing testing mainly focuses on three major businesses: tubing and casing repair, tubing and casing accessories processing and anticorrosion of inner coating of pipe materials, please refer to the following introduction. According to business requirements, service of tubing and casing sales, quality testing, air sealing testing, well-entry service and storage operation can also be provided.

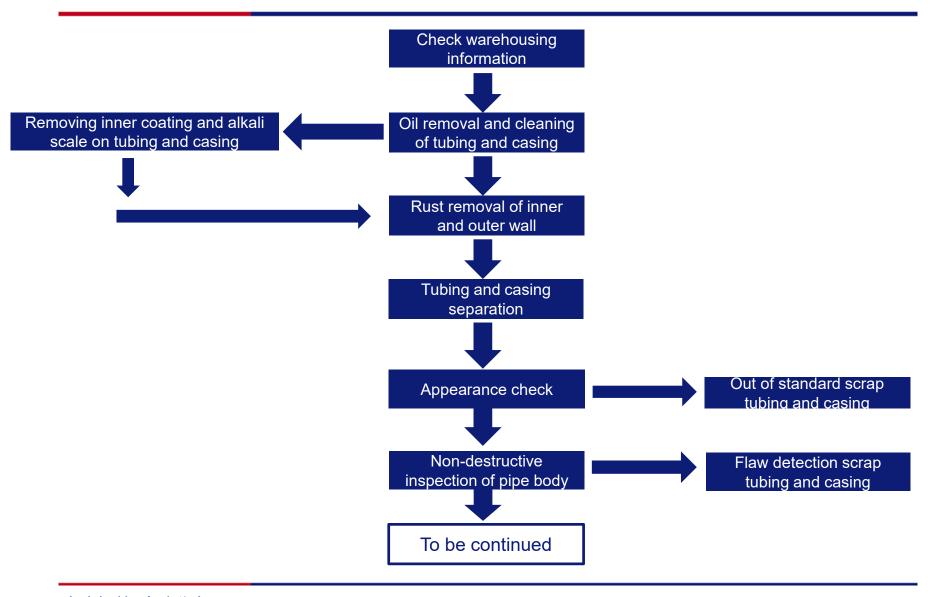
2.2 Repair of Tubing and Casing

- Service Scope
- Process Flow
- Main Equipment

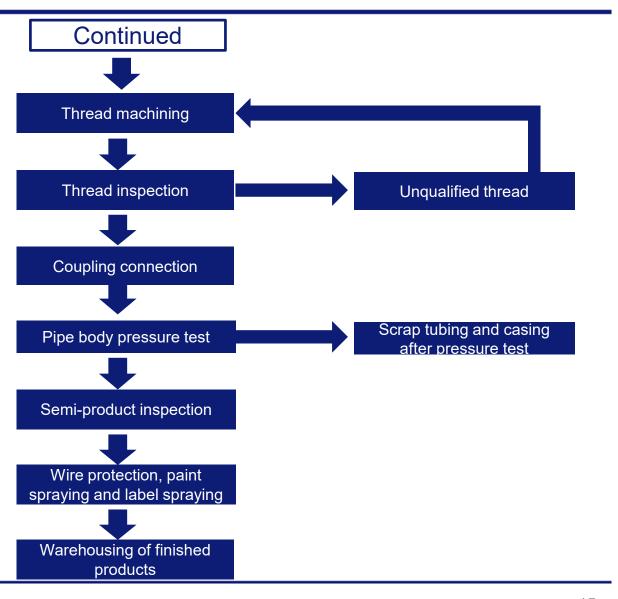
2.2.1 Service Scope

Item	Category	Specification	Steel Grade	Material	Thread Model	Production Capacity
	Tubing	2-3/8" ~ 4-1/2"	J55, N80, P110, C110、 140V, 155V	Carbon steel, sulphur- proof, 3Cr, 5Cr, 9Cr, 13Cr, nickel- based alloys	EU, NU, TP-JC, BGT1, BGT2, FOX, BEAR	Cleaning: 300,000 pcs/year Repair: 150,000 pcs/year
Content	Casing	4-1/2" ~ 20"			SLC, LC, BC, TP-CQ, BGC, BGT2	Cleaning: 150,000 pcs/year Repair: 200,000 pcs/year
Other special specifications, grades, materials and special threads of stee factory can be customized				ds of steel		

2.2.2 Process Flow



2.2.2 Process Flow



2.2.3 Equipment Cleaning



High-pressure cleaning machine: Adjustable and controllable pressure 10-40 MPa, cleaning effect of tubing and casing is remarkable with high efficiency.



Internal and external wall rust removal: Self-designed internal and external wall rust removal machine, 350 pcs/shift



Boiling cleaning device: Heavy oil cleaning, steam boiler circulating heating 80-110 C, 150-180 pcs/4h per pool



Alkali scale cleaning equipment: Unique design of knife head, effective response to thick alkali scale, 1 pcs/2 min

2.2.3 Testing Equipment



ZDJC-180 nondestructive flaw detection machine: (73~177.8mm) 1 set

HY-MT-114 PB flaw detection machine: (73-114.3mm) 1 set







BCH/SY-114 hydrostatic pressure tester: 2 sets

2.2.3 Repair Equipment



CNC lathe: (73.02~177.8mm) Quantity: 3 sets



Ordinary lathe: (50.8-219 mm) Quantity: 3 sets



Twister: (60.33-140 mm) Quantity: 4 sets



No tooth mark twister SLD4 12-25: Realize nondestructive twisting 1 Set

2.3 Tubing and Casing Accessories ProcesingON 安東

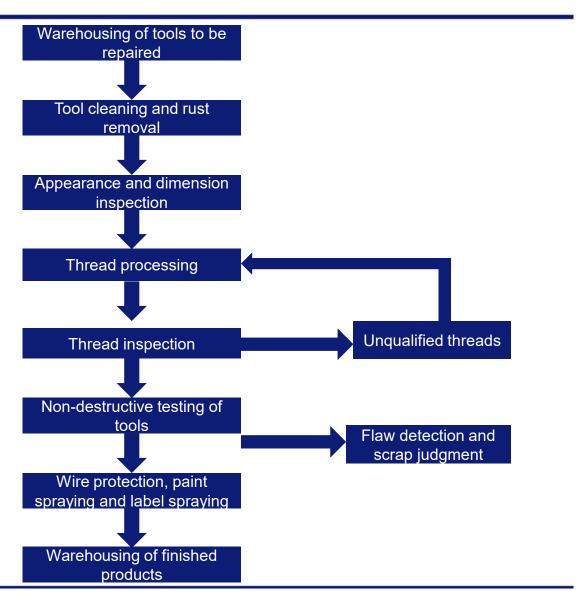
- Service Scope
- Process Flow
- Main Equipment

2.3.1 Service Scope



Item	Specification	Steel Grade	Material	Type of Thread	Production Capacity	
Content	2 ", 4" , 6 ", 8" , 10" ~20"	J55, N80, P110, C110, 140V, 155V	Carbon steel, sulfur-proof, 3Cr, 5Cr, 9Cr, 13Cr, nickel-based alloy	EU, NU, LC, STC, BC, BGT1, BGT2, BGC, BG-BC, BG- FJ, TP-JC, TP-CQ, BEAR, FOX, NC, REG, FH, IF, HT, LET	Processing: 40,000 pcs/year	
Remark	Cutting screen pipe, release sub, casing section mill, pressure limiting joint, spiral sand sinking pipe; precision processing and customization of various special downhole tool threads, such as logging, perforation, salvage, etc.					

2.2.2 Process Flow



2.3.3 Repairing Equipment



CNC lathe: HTC5020B (60.32-114.3mm) quantity: 2 sets, mainly for tubing short joint processing, coupling processing.



Shot blasting machine: LW/PS1-YG7 can realize surface treatment of tool threads below 10"to meet the technical requirements of surface treatment.

2.3.3 Testing Equipment



Nondestructive testing equipment: Ultrasound flaw detection machine is specially designed for the flaw detection of tubing and casing short joints.



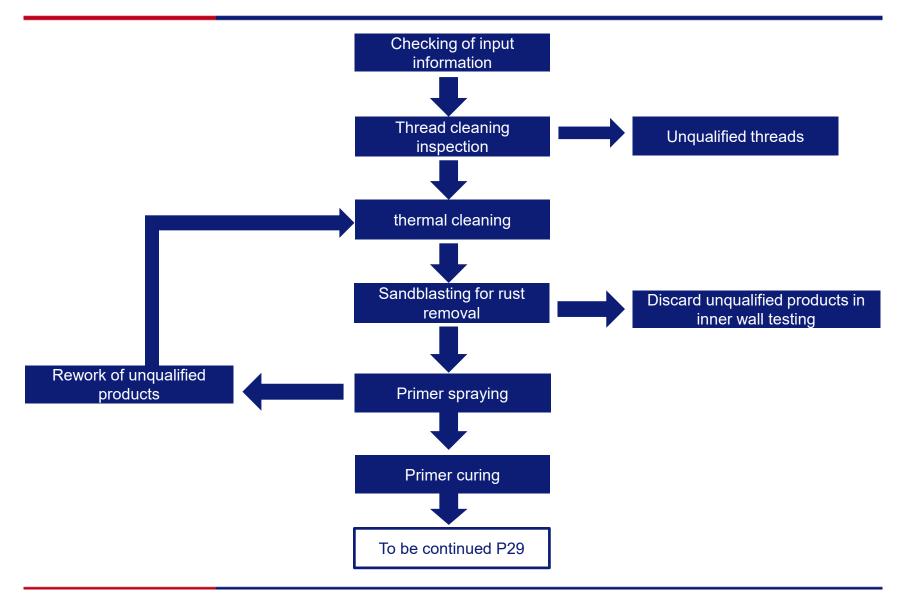
Nondestructive testing equipment: The magnetic particle flaw detection machine is specially designed for the detection of threads at both ends of tubing and casing short joints.

2.4 Anticorrosive Coating for Pipes

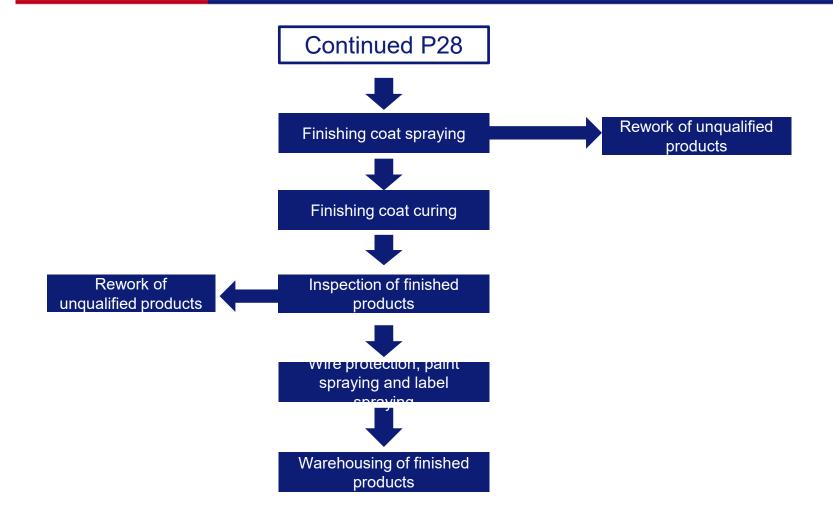
- Service Scope
- Process Flow
- Main Equipment
- Inner Coating Display

Item	Specification	Steel Grade	Material	Thread Model	Production Capacity	
Content	2-7/8" ~ 5-1/2"	Not limited	Not limited	Not limited	Processing: 300,000 meters/year	
Remark	1. Conventional service can produce 2-7/8"~4-1/2" tubing and 3-1/2"~5-1/2" drill pipe. 2. 13Cr and other special material pipes can be produced after equipment modification according to business volume.					

2.4.2 Process Flow



2.4.2 Process Flow



2.4.3 Production Equipment



thermal cleaning Furnace: Radiation heating 200-400 °C, carbonized loosening on heavy oil and alkali layer, 300 pcs/furnace



Sandblasting machine: Sand blasting on the inner wall of pipes, treatment of oxide and alkali layer on the inner wall, 80 pcs/shift



Spraying equipment: Inner wall spraying, uniform coverage of pipe wall, 100 pcs/shift



Horizontal chain furnace: Pipe primer curing, accelerate setting and adhesion of coating, 150 pcs/shift

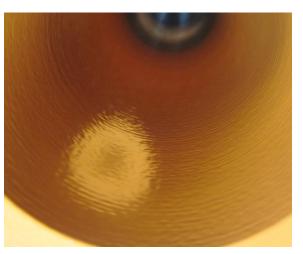


Finished product curing furnace: Pipe finish curing, adjust temperature, accelerate condensation of coating, 300 pcs/furnace

2.4.4 Inner Coating Display



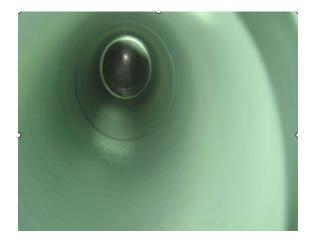
After sandblasting



After spraying primer



After curing of primer



After spraying finishing coat



After curing of finishing coat

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- 1. Compared with competitors, it has the ability of thermal cleaning and sand blasting equipment on the inner wall. It has unique advantages in handling heavy oil, alkali and wax deposits. Thermal cleaning can also eliminate stress generated during the use of repaired pipes.
- 2. Autonomous design of cleaning equipment and automatic maintenance production line with reliable, fast and efficient production capacity;
- 3. Iraqi Hafaya EPCC (design, purchase, construction, operation) project has been successfully carried out and accumulated rich experience. The tubing and casing testing business has EPCC general contracting service capability and realizes the integrated service of tubing and casing testing.
- 4. It has a professional technical team to help customers prepare 13Cr Special Threaded Joint Tubing Repair Technical Regulations Q/SY TZ 0474-2016, PetroChina Company Limited API Tubing Repairing Enterprise Standard Q/SY TZ 0267-2015, and Sinopec 13Cr-BGT2 Tubing Maintenance and Repairing Standard.

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THANKS!

Helping others succeed...