



YUANKE

Hebei Yuanke Pipeline Manufacture Co., Ltd.

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Hebei Yuanke Pipeline Manufacture Co., Ltd.  
河北源科管道制造有限公司



YUANKE PIPELINE



## YUANKE PIPELINE IN BRIEF

Hebei Yuanke Pipe Manufacturing Co., Ltd. is a pipe manufacturer integrating production and import and export sales. Its production plant is located in Yanshan County, Hebei Province, China's largest pipe fittings base. It has the right to import and export. In addition to supplying domestic large-scale enterprises such as oil, offshore oil, shipyards, chemicals, power plants, urban heating, and water treatment, its products are also exported to Italy, Chile, Argentina, Australia, Singapore, Thailand, Bangladesh, Russia, the United Arab Emirates, Iran, Iraq, Kazakhstan, Turkmenistan, Nigeria, Brazil and other countries and regions.

Our company's products mainly include elbow, tee, cross, reducer, cap, buttwelding fittings, flange, steel pipe, socket fittings, pipe spools, joints and other products. Materials include carbon steel, pipeline steel, alloy steel, stainless steel, duplex stainless steel, special steel, etc. Production standards include GB, HG, SY, SH, GD, DL, ASME, ANSI, MSS-SP, API, AWWA, DIN, BS, EN, JIS, GOST, AS, NORSOK, ISO and other non-standard pipe fittings according to drawings. Our company holds qualification certificates such as Production License of Special Equipment and ISO 9001 certification.

Our company's main advantageous products: pipe fittings and flange products for sour environment service that meet NACE MR0175 standard and can provide HIC and SSCC tests; corrosion-resistant duplex stainless steel and high-grade stainless steel pipe fittings and flange products; thick-walled 16MO3\P11\P22\P1\P5\P9\P91\92\WB36 and other pipe fittings and flange products; WPHY 42/52/60/65/70/80, WPL3/WPL6 and other oil pipeline and low-temperature pipe fittings and flange products; API 6A 6B flanges, compact flanges, swivel flanges, anchor flanges, split flanges, insulating flanges, spectacle blind flanges, etc.

- ▶ *Focus on quality and safety*
- ▶ *On time delivery*
- ▶ *Excellence in service*
- ▶ *Lean production approach*
- ▶ *Continuous investment in hi- tech machinery*

Now our main scope is full range of Butt Weld Fittings. All the Fittings comply with international standards or specially designed as per clients' requirement.

According to our production technique, the forming process includes Hot Forming, Hot Forming by Mandrel, Cold Forming etc.

The material grades for Butt Weld Fittings include all types of carbon steel, stainless steel, alloy steel, duplex steel, cladding steel.



#### DESIGN CODES:

ASME B31.1   ASME B31.3   ASME B31.4   ASME B31.8   ASME VIII

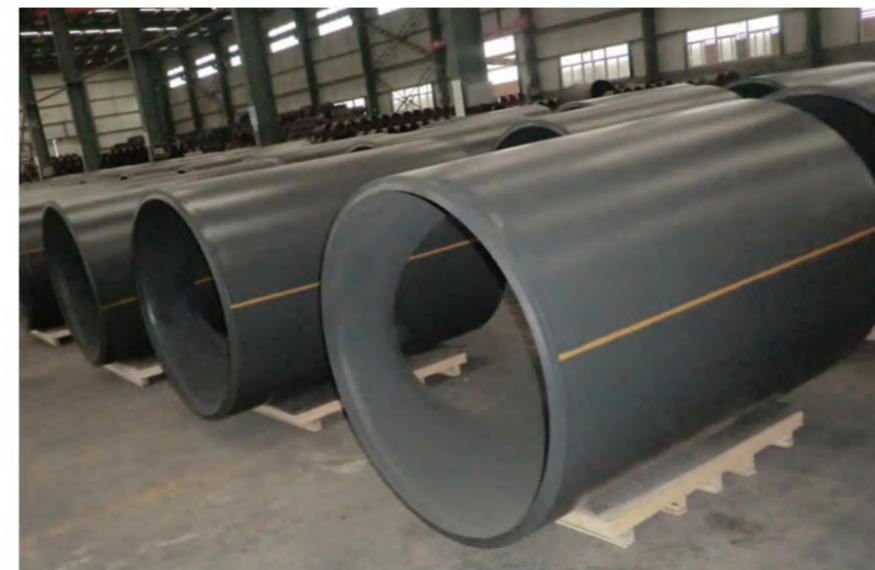
#### MANUFACTURING STANDARDS:

ASME B16.9   ASME B16.25   MSS SP75   EN10253

MATERIAL TYPE	MATERIAL GRADE
CARBON STEEL	ASTM / ASME A / SA 234 WPB/WPC
LOW TEMP. CARBON STEEL	ASTM / ASME A / SA 420 WPL6
HIGH YIELD CARBON STEEL	ASTM / ASME A / SA 860 WPHY42/46/52/60/70/75/80
ALLOY STEEL	ASTM / ASME A / SA 234 WP11/WP22/WP5/WP9/WP91
STAINLESSL STEEL	ASTM / ASME A / SA 403 WP304/304L/316/316L/321/321H/347/347H/904L
DUPLEX STAINLESS STEEL	ASTM / ASME A / SA 815 WPS31803/32750/32760/32205



## HOT FORMED TEE



Yuanke Pipeline has invested dramatically in research and development both in production facilities and technical improvements.

- 20000Tons Multi-Directional Press Machine is the biggest in China in Fitting production.
- We have completed tee molds up to 56", which guarantees the shortest delivery time and internal production quality control.
- Mechanical Test on coupons or finished fittings is performed per heat by QC staffs to guarantee the mechanical property.
- 100% Magnetic Particle Test and Ultrasonic Test are performed on seamless fittings. 100% MT, UT and RT are performed on welded Fittings.
- Owe to the large capacity of our Multi-Directional Press Machine, tees below 28" could be fabricated by one-time molded cold forming, it is more efficient than traditional technics.

### MANUFACTURING STANDARDS

ASME B16.9

ASME B16.25

MSS SP75

ASME B16.28

EN10253

### SIZE RANGE OF HOT FORMED TEE

PRODUCTS	DIAMETER	WALL THICKNESS	TYPES	FORMING METHOD
TEES	8" - 56"	20-120MM	SMLS OR ONE LONGITUDINAL SEAM	HOT FORMING EXTRUSION
TEES	Up to 80"	3-120MM	CIRCUMFERENTIAL WELD	COLD FORMING OR HOT FORMING

## COLD FORMED TEE



Besides our method of Hot Formed Extrusion in Tee production, we have our advantages at Cold Hydraulic Bulge Tee production. Owe to our big capacity of our Hydraulic Machine and accumulated rich production experiences, the cold-formed tee is produced up to 28inch with much higher efficiency and better surface finish.

- 20000Tons Multi-Directional Press Machine is the biggest in China in Fitting production.
- We have completed tee molds up to 28" in cold forming process. This is guaranteed the shortest delivery time and internal production quality control.
- Heat treatment will be performed strictly on all cold-formed tees as per material codes.
- Mechanical Test on coupons or finished fittings is performed per heat by QC staffs to guarantee the mechanical property.
- 100% Magnetic Particle Test and Ultrasonic Test are performed on seamless fittings. 100% MT, UT and RT are performed on welded fittings.

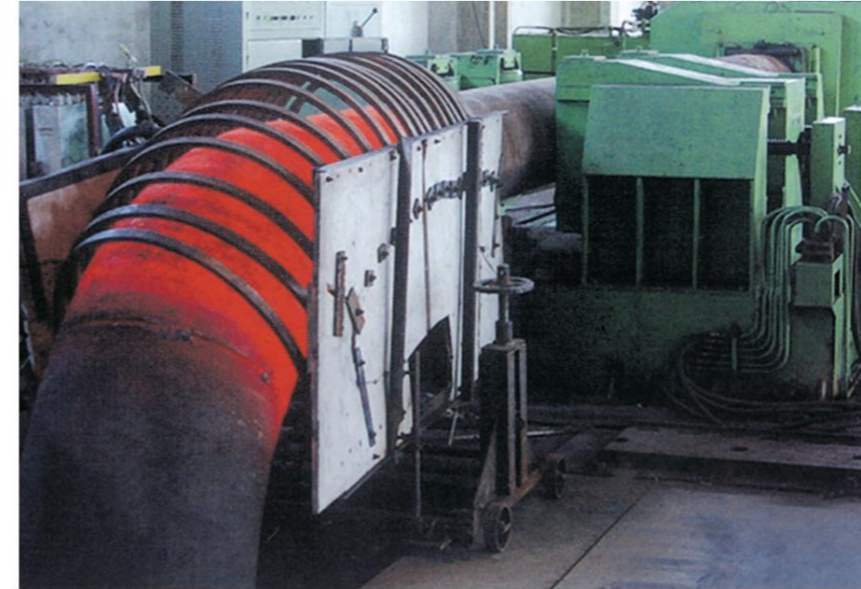
### MANUFACTURING STANDARDS

ASME B16.9 ASME B16.25 MSS SP75 ASME B16.28 EN10253

### SIZE RANGE OF COLD FORMED TEE

PRODUCTS	DIAMETER	WALL THICKNESS	TYPES	FORMING METHOD
TEES	1/2" - 28"	3-20mm	SMLS	COLD HYDRAULIC BULGE

## ELBOWS BY HOT MANDREL



One of the most common manufacturing method for elbows produced from pipes is that the mother pipe is heated by induction coil, it is pushed over a die which is called "Mandrel", it allows the pipe to expand and bend simultaneously. This method is applicable to a wide size range.

Our hot mandrel elbows together with our superior craftsmanship capability and experience of its workers are satisfied by our clients.

- Small thickness deviation and shorter bending radius
- We have completed mandrel up to 28". Shortest delivery time and internal production quality control are guaranteed.
- Mechanical Test on coupons or finished fittings is performed per heat by QC staffs to guarantee the mechanical property.
- 100% Magnetic Particle Test and Ultrasonic Test are performed on seamless Elbows. 100% MT, UT and RT are performed on welded Elbows.

### MANUFACTURING STANDARDS

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### SIZE RANGE OF ELBOWS BY MANDREL:

PRODUCTS	DIAMETER	WALL THICKNESS	TYPES	FORMING METHOD
ELBOWS	4" - 28"	3-50mm	SMLS	HOT FORMING



## SAW ELBOWS BY 2 HALVES



Yuanke Pipeline important position in the pipe fitting industry depends on the superior crafts-manship capability and experience of its worker, together with technical innovations and continual planning by the internal engineers. Our important position also depends on the excellent quality of its products.

Yuanke Pipeline has invested dramatically in research and development in welded elbows with big size by Submerged Arc Welding method. Quality of welded elbows by 2 halves are satisfied by both national and international clients.

- High efficiency, cost saving and no minimum quantity for all clients
- Consistency and high welding quality
- Extremely high deposition rate and speed
- Smooth, uniform finished weld with no spatter
- Deep weld penetration
- Thick material welding is applicable.
- Less distortion
- 100% MT, UT and RT are performed.

### MANUFACTURING STANDARDS

ASME B16.9

ASME B16.25

MSS SP75

ASME B16.28

EN10253

### SIZE RANGE OF SAW ELBOWS BY 2 HALVES

PRODUCTS	DIAMETER	WALL THICKNESS	TYPES	FORMING METHOD
ELBOWS	28" - 84"	12-60mm	WELDED	HOT FORMING

## HOT INDUCTION BENDS



Yuanke Pipeline has large size bending capacity. It does not only provide with bends but we also offer bending solutions. All our bending machines are interfaced with sophisticated computers and are provided with a global control system, which enables them to adapt autonomously to variations in load, while maintaining control over key process parameters, like temperature, in order to minimize the heat losses. This ensures that the material properties are retained even after the bending process, in accordance with applicable specifications. The material grade covers the pipes made of carbon steel, alloy steel, stainless steel and duplex, welded (SAW or ERW) or seamless, with diameter ranging from 2" to 56".

- Large size bending capacity up to 56"
- Optimum Precision as per designed code, efficiency and consistency.
- We have 4 sets of Bending Machine up to 56". Shortest delivery time and strict internal production quality control is guaranteed.
- Mechanical Test on coupons or finished bends is performed per heat by QC staffs to guarantee the mechanical property.
- 100% Magnetic Particle Test and Ultrasonic Test are performed on seamless Bends. 100% MT, UT and RT are performed on welded Bends.

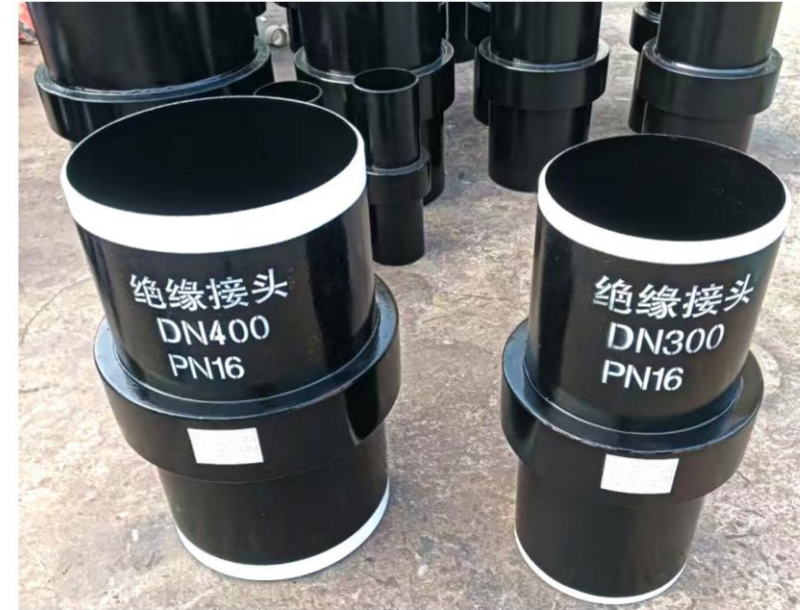
### MANUFACTURING STANDARDS

ASME B16.49 ASME B16.9 ASME B16.25 MSS SP75 EN10253

### SIZE RANGE OF BENDS:

PRODUCTS	DIAMETER	WALL THICKNESS	TYPES	FORMING METHOD
BENDS	2" - 36"	3-50mm	SMLS	HOT & COLD FORMING
	26" - 56"	8-100mm	WELDED	HOT FORMING

## INSULATING JOINTS



The Insulating Joints is a new generation developed product to resolve use problems of old insulating flange. It is the essential pressure component necessary for steel pipeline cathodic protection system. Our company's insulating connectors adopts a unique design based on referencing foreign latest product structure to overcome problems of inadequate rigidity, prone to leak, unable to be buried under ground, short service life, etc. The insulating connectors have realized buried parts maintenance-free function and allow a service life matching the pipelines.



### SIZE RANGE OF INSULATING JOINTS:

PRODUCTS	DIAMETER	PRESSURE RATING	MATERIAL
INSULATING JOINTS	1/2" - 64"	150#-900#	Gr.B/X42/X52/X60/X65/X70 304/316L/2205/2507

# FLANGES & FORGED FITTINGS



- Flanges are machined precisely internally in factory with strict quality control.
- Forged Fittings are mainly sourced from our approved sub-suppliers.



PRODUCTS	TYPE	DIAMETER	RATING	WALL THICKNESS	FORMING METHOD
FLANGES	WELD NECK	1/2" - 120"	150-2500#	ALL	FORGING
	SLIP ON				
	SOCKET WELD				
	THREAD				
	ORIFICE				
	LAP JOINT				
BLIND	FORGED FITTINGS	1/2" - 4"	2000-9000#	ALL	FORGING
ANCHOR					
SPECTACLE BLIND SPACER & BLANK					

# STAINLESS STEEL PIPE FITTINGS



Stainless Steel as an important material grade has grown steadily in our company's sales turnover in the passed years. This production line includes the following processes:

- Pipe cutting
- Cold extrusion
- Solution treatment
- Shot-blasting
- Pickling & passivation
- Beveling, etc.

Strict quality control procedures from start of production to finished fittings introduced into the quality control, but not limited to the following:

- Raw Material Inspection
- Traceability
- PMI
- Mechanical Tests
- NDE (UT,PT,RT)
- Dimensional Inspection
- Surface Inspection



PRODUCTS	DIAMETER	WALL THICKNESS	TYPES	FORMING METHOD
ELBOWS	1/2" - 60"	2-60MM	SMLS OR WELDED	COLD FORMING
TEES				
REDUCERS				
CAPS				
STUB ENDS				



# PIPE SPOOLS



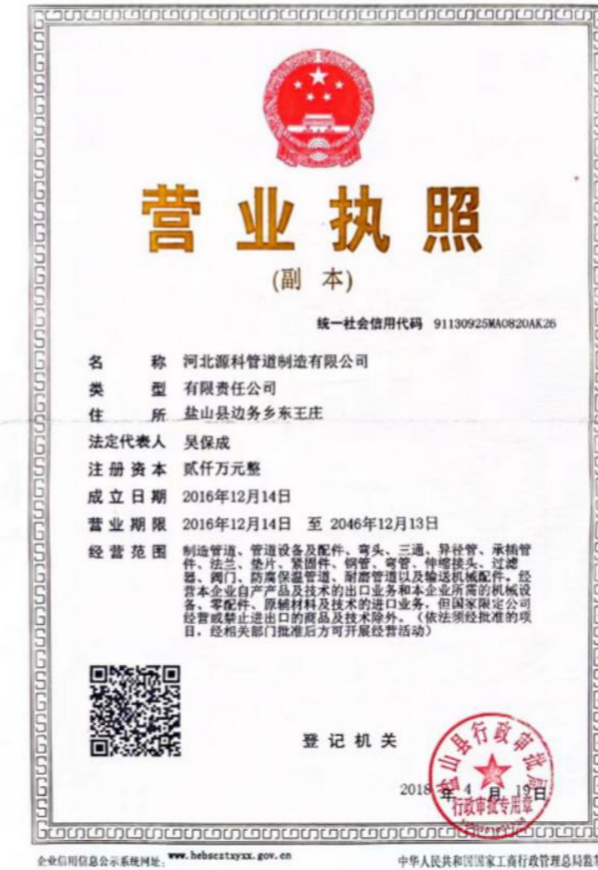
The prefabricated components of piping system are called pipe spools. Pipe spools are fabricated using various types of raw pipes and raw fittings, including flanges and fittings, and they are mounted during the fabrication before they are delivered to the construction site. Yuanke Pipeline provides engineering and welded fabrication of piping systems to power plant, oil, gas, nuclear power and chemical industries.

The most important advantages of shop fabrication for industrial piping are as follows:

- No Weather Delay.
- Better Resource
- Improved Quality
- Lower Cost
- More Rigorous Testing
- Grater safety
- Fewer Disruption at Work Site
- Chemical and Mechanical tests, Precision Dimension Inspection are guaranteed as per Project



# QUALIFICATIONS



## QC&QA

To achieve the overall goal of meeting the customers' and organization's requirements, Focus Piping has built strong Quality Management System. Our QCM serves many purposes, including improving processes, reducing cost, lowering waste, facilitating and identifying training opportunities etc.

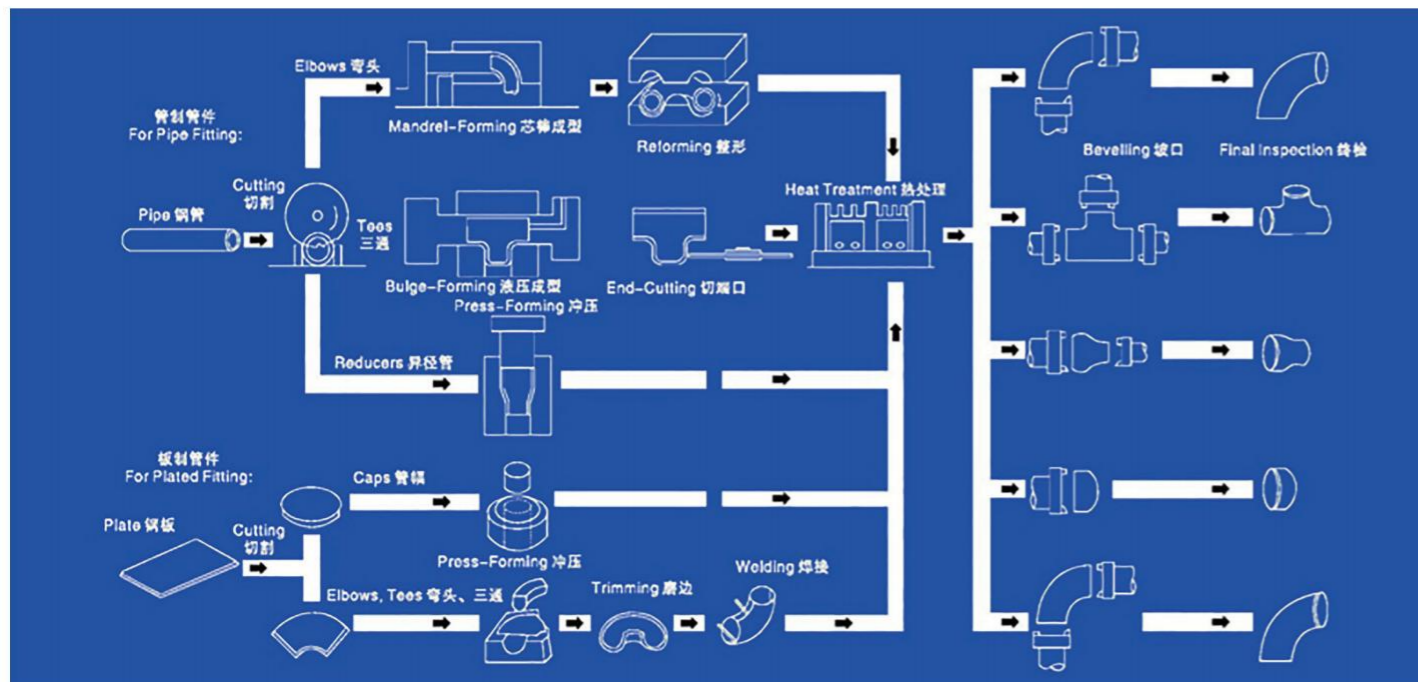
### Quality Control:

- Raw Material Receiving Inspection
- In - process Inspection
- Chemical Analysis & Mechanical Property Test
- Welding Inspection
- Non-destructive Examination
- Calibration Control
- Non-conformance Control
- Other Evaluation / Test
- Third Party Inspection
- Sub-supplier Quality Control
- Final Inspection

### Quality Assurance:

- Quality Manual Control
- Quality System Certification / Maintenance
- Quality Procedure Preparation / Control
- Quality Assurance Audits
- Supplier Evaluation / Audits
- Quality Records Control
- Education & Training
- Quality Trend Analysis
- Customer AVL Registration
- Corrective Action & Preventive Action

## MANUFACTURING METHOD & PROCESS



## HEAT TREATMENT

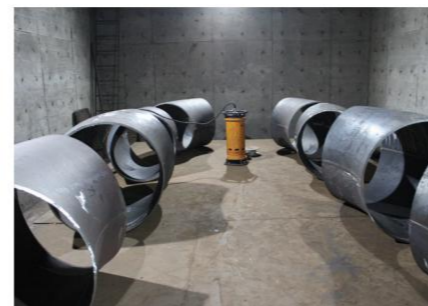
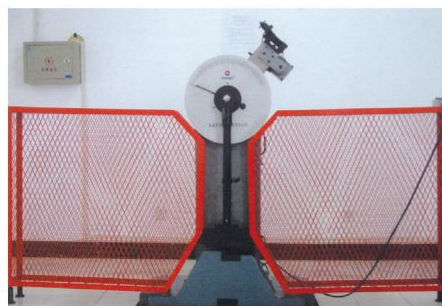


Heat Treatment is one of the most important processes in the production process of steel pipe fittings. It plays an important role in exploring potential of metal material, improving the service life of steel pipe fittings and making performance of steel pipe fittings better. The service life as well as performance can be affected by various factors such as the internal micro structure of metal material. Using different heat treatment processes means that the heat temperature, holding time and cooling rate are different.

## TEST & INSPECTION

Yuanke Pipeline invested independent Laboratory in the factory. All the test facilities are certified annually by Chinese Standard Institute. R&D personnel, test operators are qualified with certifications. qualification and procedure qualification records are executed in our Laboratory. We also collaborate with authorized Laboratory and Inspection Companies.

- Mechanical Test
- ✓ Tensile Test
- ✓ Charpy Impact Test
- ✓ Hardness Test
- ✓ Hydro Test & Bursting Test
- Chemical Analysis
- ✓ Positive Material Identification (PMI)
- ✓ Spectral Analysis
- Metallographic Analyzer
- Non Destructive Test
- ✓ Radiographic Test (RT)
- ✓ Ultrasonic Test (UT)
- ✓ Magnetic Test (MT)
- ✓ Penetrant Test (PT)
- Dimensional Inspection
- Sour Service Test
- ✓ Hydrogen Induced Cracking(HIC); Sulphide Stress Cracking(SSC); Stress Oriente Hydrogen Induced Cracking(SOHIC); Sulphide Stress Corrosion Cracking (SSCC).



## PACKING & TRANSPORTATION

Yuanke Pipeline paid close attention to every procedure to assure quality, of which surface, marking, packing and transportation are never the neglectable factors. Professional packing is not only important to improve the fittings' image but essential to protect the fittings itself during the transportation by sea or land conditions. To ensure that all kinds of cargo in process of packing and transporting are free of accident, the following packing methods are applied.

- Beveling ends protected by bevel protectors
- Beveling ends protected by rubber/iron ring fixed by steel or plastic strips
- Point welding pipe support applied for large size fittings with thin thickness
- Plywood Pallet
- Plywood Case
- Steel Pallet
- Steel Skid
- Pallet or case covered by plastic film and wrapped by plastic film
- Professional Full Container Loading in factory applied
- Bulk Packing and Less Container Loading by agreement
- Special Packing by agreement



# GLOBAL MARKETS

Until now, our products are exported to more than 30 countries cover Europe, Middle East, Asia, South America and South Africa etc. Canghai Equipment is a global pipe fitting manufacturer, now its name is the image of satisfied-quality fittings.



# PERFORMANCE

