



Zeng Qi Yun(ZQY) Group

Headquartered in Chengyang District, Qingdao, China, the Group consists of Zengqiyun Intelligent Industrial Manufacturing Division and two large-scale smart manufacturing factories covering over 47,000 square meters. Since 2004, we have specialized in the design and manufacturing of three-layer polyethylene (3LPE) pipeline rust removal, internal/external anti-corrosion, bend pipe anti-corrosion, and FBE epoxy powder coating production lines, as well as HDPE pipe, Heat Shrink Tubes, Extruders, Expanders (Continuous/Sectional), Coating Machines, Breakout Systems, Rainsheds, End Caps production lines, high/low voltage insulation terminal products, XPE foam board and rubber track production lines, accumulating 21 years of rich industry experience. Notably, we also excel in advanced technologies such as remote-controlled robotic systems for on-site pipeline welding and internal coating, as well as innovative bend pipe 3LPE anti-corrosion production line technologies, demonstrating our leadership in high-end manufacturing within the industry.

Our solutions are trusted by clients in over 30 countries, including renowned industry leaders such as HALCOR (Europe), PERMA PIPE (Middle East), India Gala, Compaq international, and Fusion Bonded, Axalta, Sherwin Williams (South America). We have established long-term strategic partnerships in key sectors: the oil industry in the Middle East and Africa, the natural gas sector in Russia, and the water supply industry in Central Asia.

ZQY boasts four core advantages:

- Professional Team: With an elite team averaging over 17 years of industry experience and a dedicated after-sales commissioning and installation team, we provide high-intelligent automated production line solutions tailored to client needs.
- Cost Advantage: Owning self-owned production facilities and an in-house mold factory (designing and manufacturing all molds for heat shrink tube expansion and extrusion), we achieve cost leadership in production, ensuring highly cost-effective products.
- Technological Barrier: Mastering core design, R&D technologies, and advanced production line manufacturing processes, we have developed world-leading innovations such as remote-controlled robots for on-site pipeline automatic welding and internal coating, as well as fully automated bend pipe and special-shaped steel pipe rust removal + FBE/3LPE production lines (currently the world's only provider of this technology), often imitated but never surpassed by peers.
- Flexibility and Efficiency: We flexibly assist clients in customized product upgrades, ensuring efficient collaboration processes that exceed expectations and deliver worry-free, satisfying partnerships.

Zengqiyun Group – Combining 21 years of industrial expertise with global innovation to smart power tubing lines.

Factories & Branch





ZENGQIYUN INTELLIGENT INDUSTRIAL TECHNOLOGY

- Research and development of new products Production process management After-sales service
- Supply chain management Export business ofraw materials and auxiliary materials



Manufacturing Factory of Large-scale Anti-corrosion & Thermal Insulation Production Lines

- Plastic extrusion pipe production lines
- > Anti-corrosion lines
- ➤ 3PE Three-layer polyethylene lines
- Heat preservation pipe production lines



Shrink tube production lines and high - voltage insulation products

- ➤ Production lines: Heat shrink tube extrusion , expansion and adhesive coating.
- Finished products: High voltage insulation items (heat & cold shrink terminals, joints, etc.). Provide standard & customized insulation expansion products.

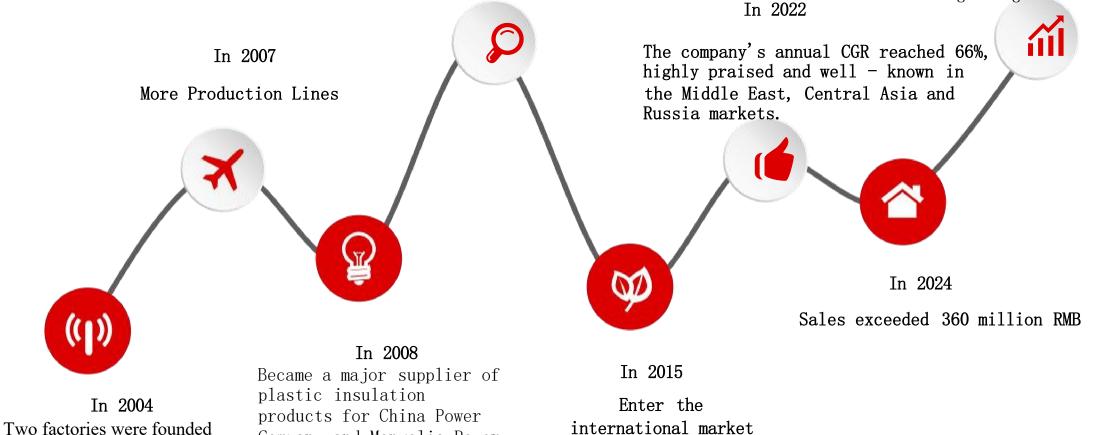
Company Milestones 20 years

and started production.

Present

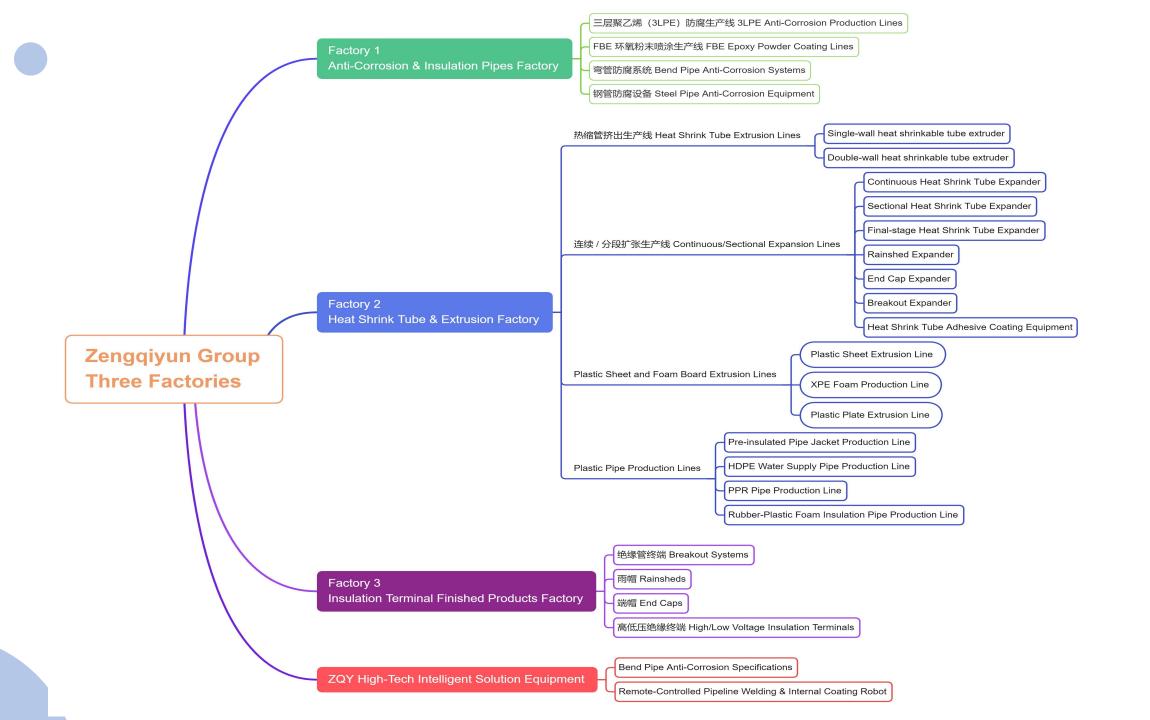
In 2009

Undertake large-scale water conservancy and gas projects in China; A leading enterprise in the industry Goal: As a leader in high—end customized production lines for heat shrinkable tubes and extruded tubes, we empower our customers with cutting—edge technology.



Company and Mongolia Power

Group



Heat shrinkable tube extrusion line









Mainly used to produce heat-shrinkable material pipes (heat-shrinkable tubes)





Heat shrinkable tube expansion machine

- The heat-shrinkable tube expansion machine is mainly used for the production of heat-shrinkable tubes, using glycerol as the heat-conducting medium, vacuum expansion, mainly heating system, expansion system, unique flushing system
- High production efficiency (can run 6 lines at the same time). It can be customized and developed according to product requirements.





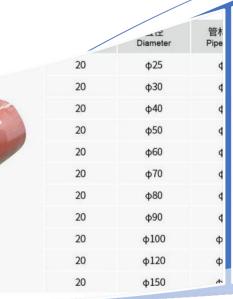




Heat shrink tube

Heat shrink tubes









Positive pressure expansion, adhesive coating, special-shaped terminal insulation tube equipment & finished products, high-end medical infusion tube expansion equipment





The company's core products

- 1. HDPE jacket pipe for pre-insulated pipe Production Line
- 2. Pre-insulated pipe Production Line
- 3. Flexible pre-insulated pipeproduction line
- 4. Steel pipe FBE/2LPE/3LPE anti-corrosion coating line
- 5. Steel pipe derusting line
- 6. PE pressure pipe/Water Gas supply pipe production line
- 7. PP/PE plastic board/sheet/geomembrane production line
- 8. NBR PVC Thermal insulation tube/plate production line
- 9. Heat shrink sleeve production line
- 10. Pipeline anti-corrosion materials and instruments: Heat shrink joint coating sleeve, electro-fusion weldable joint sleeve, portable welding gun(extruder), PE PP welding rod.



XPE Foaming Production Line

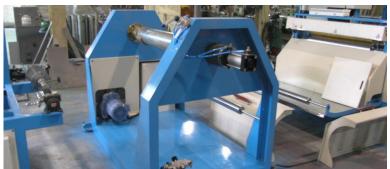
- Main Equipment Components: Pelletizing unit, mixing unit, masterbatch extrusion unit, foaming unit, etc.
- Raw Materials: LDPE and other materials;
- Cases: In Europe, Russia, the Middle East; Overseas Customer Cases: Automotive soundproofing materials, copper pipe manufacturing industry, yoga mat and sporting goods companies.











PP/ PE Sheet/ Board/Plate Extrusion Line

The PP/PE Sheet/Board/Plate Extrusion Line is a high-efficiency energy-saving line independently researched and developed by our company. It has low energy consumption, high output and it is very easy to operate.





Insulation pipe winding production line

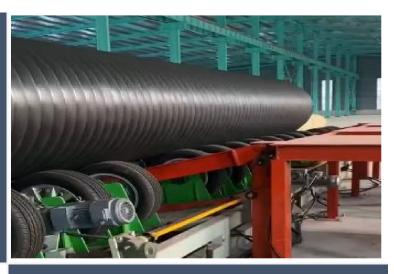




Connection entanglement protection

High-efficiency and energy-saving extruder for continuous extrusion

Mechanical clamping device for dense winding



Automatic online tracking

Automatic tube tracking on line, end-toend connection

The transportation and management trolley is on line to protect the foam





Automatic cutting

Automatic cutting when in place, three-cut anti-corrosion layer

Automatic tube removal when off-line, accelerated disconnection

Automatic off line



> Spraying & winding insulation pipe

High speed& efficiency, energy saving, environmental protection

With energy saving as the concept, we pursue high efficiency, improve product production capacity and meet national environmental protection requirements.

High degree of automation

 PLC intelligent control system to collect statistics on position, speed, efficiency, and energy consumption to prevent damage to the product caused by human error.

Reliable and stable product quality

- Automated and efficient production requires a set of highprecision and stable production lines. The steel plates on the equipment are cut by a 15KW laser cutting machine to ensure the accuracy of the product and design.
- Hydraulic height adjustment and hydraulic pipe removal ensure that the insulation layer is not damaged



中国石油工程建设协会管道设备与防护技术会员单位 Chinese petroleum engineering construction association

Anti-corrosion production line for steel tube 3 PE 钢管3 PE防腐生产线



φ 800-φ 3200钢管内壁环氧粉末、外壁三层PE生产线(TPEP) 800-3200 the outer wall of steel pipe wall growy powder, firree layer PE production line (TPEP)



钢管大口径单组螺旋输送线 Large diameter single spiral conveying line for steel pipe

3PE防腐钢管母材包括无缝钢管,螺旋钢管和直缝钢管。三层结构的聚乙烯(3PE)防腐涂层以其良好的抗腐蚀性、抗水气渗透性以及力学性能等,在石油管道行业得到了广泛应用。3PE防腐钢管一防腐层对于埋地管道的寿命来说是至关重要的,同样材质的管道,有的埋在地下几十年不腐蚀,有的几年就发生泄露。就是因为它们采用了不同的外防腐层。

The base material of 3PE anticorrosive steel pipe includes seamless steel pipe, spiral steel pipe and straight steel pipe. The three-layer polyethylene (3PE) anti-corrosion coating has been widely used in the petroleum pipeline industry for its good corrosion resistance, water-gas permeability and mechanical properties. An anti-corrosion layer of 3PE corrosion-resistant steel pipe is crucial for the life of buried pipes. Some pipes of the same material are buried underground for decades without corrosion, while others leak in a few years. That's because they use a different coating



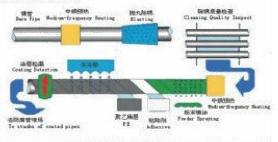
♦ 159- ♦ 1020钢管3PE防腐生产线 ♦ 159- ♦ 1020 pipe 3PE onticorrosive production line



φ 426 - φ 1620钢管3PE防腐生产线 φ 426 - φ 1620 steel pipe 3PE anticorrosive production line



◆800-◆2800詞言內壁环氧粉末、外壁三层PE生产线(TPEP) ◆800-◆2800pipe internal wall epoxy powder, external wall three layer PE production line (TPEP)



三层PE防腐生产流程 Three layers of PE anticorrosive production process



200/33:1高产量挤出系统 200/33:1high yield extrusion system



● 中国工业防腐蚀技术协会会员单位 China's industrial anticorrosion technology association member units



大口径TPEP成品管



Large diameter TPEP finished pipe



φ 2600TPEP坡口机



φ 2600 TPEP groove machine



φ 800- φ 3200TPEP冷却喷淋房 φ 800- φ 3200TPEPcooling spray room



φ 800- φ 3200TPEP螺旋输送系统 φ 800- φ 3200TPEP screw conveyor system



中国石油工程建设协会管道设备与防护技术会员单位 Chinese petroleum engineering construction association



直行输送线 Straight conveyor line



包覆3PE机头 Cover 3PE head



包覆3PE150挤出机(Φ32-Φ325) Coated 3 pe150 extruder (Φ32-Φ325)





钢管包覆3PE生产线(Φ32-Φ325) Steel pipe coafed 3 PE production line (Φ32-Φ325)



中国工业防腐蚀技术协会会员单位 China's Industrial anticorrosion technology association member units





环氧粉末静电发生器 Epoxy powder electrostatic generator



环氧粉末回收系统 Epoxy powder recovery system

中国石油工程建设协会管道设备与防护技术会员单位 Chinese petroleum engineering construction association



3PE成品管 3PE Finished Tube



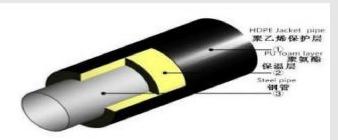
内壁粉末喷涂



环氧粉末静电喷涂设备 Powder Spraying on Inner Wall Electrostatic Spraying Equipment for Epoxy Powder









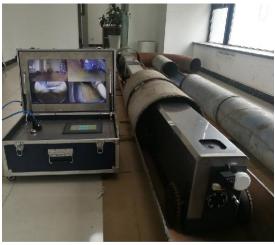


HDPE jacket pipe production line

Outer protective casing of PUF thermal insulated pipe, which is widely used in central heating, cooling oil&gas transmission and other industrial area.

Remote-Controlled Pipeline Welding & Internal Coating Robot









Core Highlights: Remote-Controlled Pipeline Welding & Internal Coating Robot

The specific pipe size that can be used by the robot

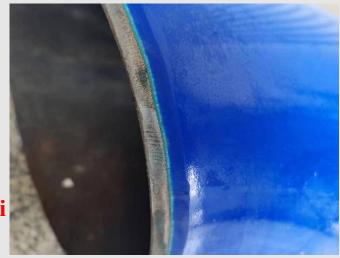
1	2	3	4	5	6	7	8
Two	Three	Four	Six	Eight	10	12 inches	14 inches
inches	inches	inches	inches	inches	inches		
50.8m	76mm	114mm	159m	219mm	273mm	323.9mm	355mm
m			m				
Never done that	Never done that	A whole machine covers it		A whole machine covers it			
9		10	11	12	13		
16		18	20	22	24		
inche	s inc	ches	inches	inches	inches	S	
406mi	m 45'	7mm	508mm	559mm	610mr	n	
		A whole n	nachine co	overs it	10.		

- ZQY Exclusive Patent The world's first intelligent device integrating welding + internal coating in one system:
- Dual-Function Automation: Efficiently auto-welds pipeline joints and repairs damaged internal coatings onsite to meet the highest anti-corrosion standards in one operation.
- Smart Remote Control: Real-time computer monitoring of welding quality with wireless precision positioning, rust removal, and spraying 100% human-free operation.
- Industry-Unique Solution: Eliminates traditional complex inefficiencies, cuts labor costs by 60%+, and achieves coating precision of ±0.05mm for full pipeline corrosion protection.
- Applications: Large-scale welding projects for oil, gas, and water pipelines, ensuring lifelong anti-corrosion integrity.

Bend Pipe Anti-Corrosion Specifications







Bend Pipe Anti-Corrosion Specifications

- Bend pipe corrosion protection (DN100–1500mm, 10°–90°) was a global hurdle.
- Patented: Automated FBE/3LPE coating for bend pipes.
- Dual-use: On-site/factory modular lines.
- Precision: Wireless control, 60% labor savings.
- Tech Lead: World's first, uniform coating for complex bends.

Category	Technical Details			
Anti-Corrosion Types	External: 3PE (Three-LayerPolyethylene)Internal: Solvent/SolventlessEpoxy Paint			
Bend Pipe Dimensions	 - Pipe Diameter: 6" - 60" - Angles: 15°, 30°, 45°, 90°, 180° - Bend Radius: 3D, 4D, 5D - Wall Thickness: 6.4 - 39 mm - Maximum Length: 7 m 			
3PE External Coating	- 1st Layer (Epoxy Powder): 150 - 600 μm - 2nd Layer (AD Adhesive): 200 - 450 μm - 3rd Layer (PE): 1.6 - 4.5 mm			
Internal Epoxy Painting	- Solvent-Based or Solventless Epoxy Coating			









Overseas customer cases

Russia

Negri a

Armenia

Columbia

Kazakhstan

Ethiopia

Korea

Slovakia

Saudi

Other african countries



ZQY will exceed your expectations



Smart Powers Tubing Lines