



**ZengQiYun  
(ZQY) GROUP**

# Factories & Branch



## Zengqiyun(ZQY) Group



### ZENGQIYUN INTELLIGENT INDUSTRIAL TECHNOLOGY

- Production process management
- R&D
- After-sales service
- Supply chain management



### Plastic pipe, Anti-corrosion & Pre Insulated Pipe Production Lines

- Plastic extrusion pipe production lines
- Anti-corrosion lines
- Heat preservation pipe production lines

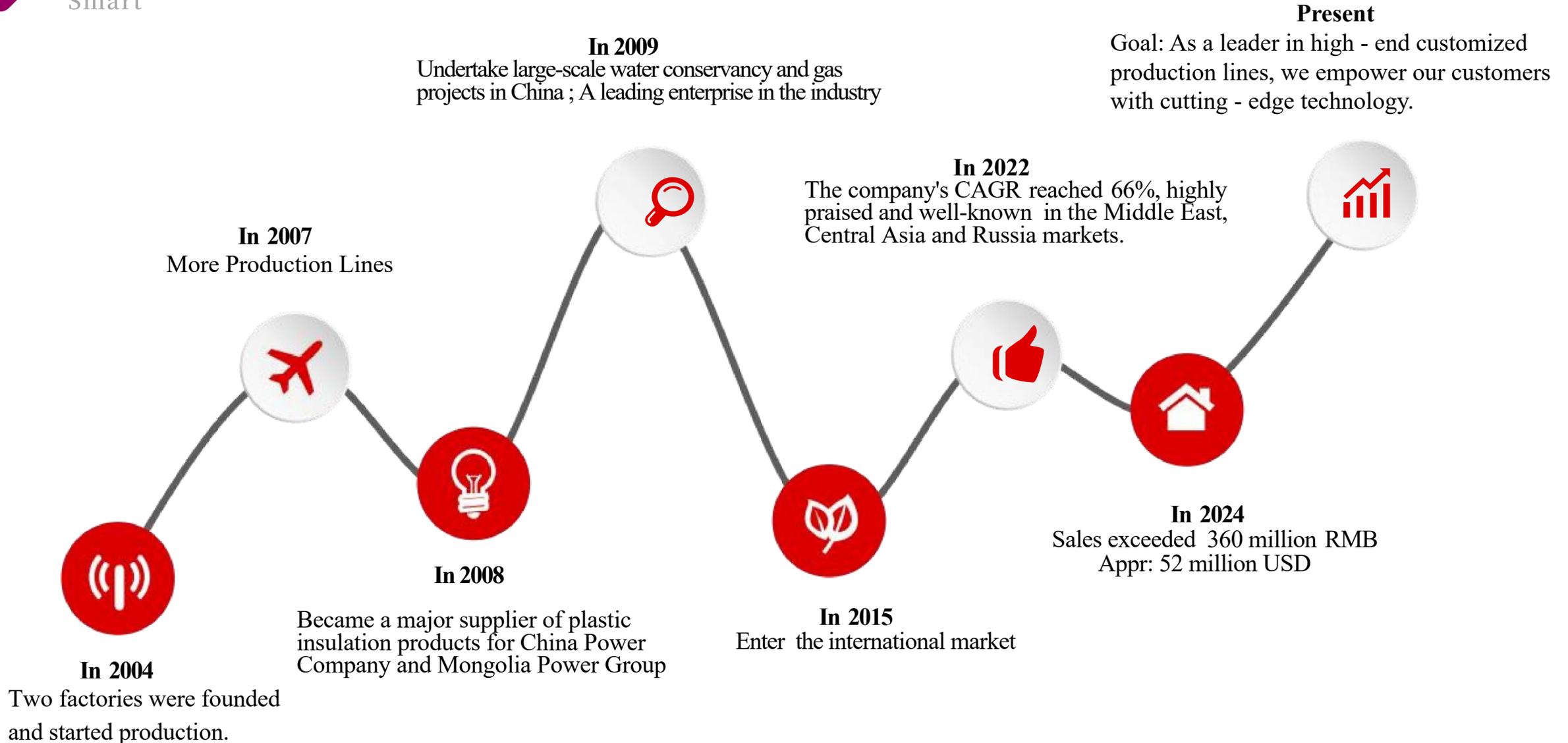


### HST production lines and high-voltage insulation products

- HST extrusion, expansion and adhesive coating lines
- Finished products: High - voltage insulation items, heat & cold shrink terminals, joints
- Standard & customized insulation expansion products



# Company Milestones 22 Years



**ZQY Group**

**Factories in the North**

**Anti-corrosive and thermal insulated coatings for steel pipes**

- 3PE/3LPE/FBE anti-corrosion production lines
- 3PE anti-corrosion production line for bent pipes
- Internal field joint coating robot
- PE Insulation Pipe Extrusion Production Line
- Thermal insulation spray-winding production line
- One-Step Polyurethane Insulation Pipe Production Line
- One-Step PERT Insulation Pipe Production Line
- Polyurethane Highlow Pressure Foaming Equipment
- Steel Casing Foaming Platform&Pipe Threading Unit
- PU Foaming and Winding Equipment

- Shot Blasting And Rust Removal Equipment For Steel Pipe Inner Wall
- Shot Blasting And Rust Removal Equipment For Steel Pipe Outer Wall
- FBE Spraying Anti-Corrosion Equipment
- 3PE/Epoxy Spraying Anti-Corrosion Equipment

**Rubber / Plastic Equipment**

- NBR/PVC Rubber and Plastic Foam Pipe and Plate Production Line
- XPE Foaming Production Line
- NBR/PVC jacket and profile production line
- Mouse Pad, Floor Mat, Yoga Mat Equipment
- Pre-fabricated Rubber Track Equipment

**Plastic Pipe Extrusion Equipment**

- Pre-insulated Pipe Production Line
- HDPE Water Supply/Gas Pipe Production Line
- PPR Pipe Production Line

**Heat Shrink Tube Extrusion Equipment**

- Single-Wall Heat Shrink Tube Extruder
- Dual-Wall Heat Shrink Tube Extruder

**Heat Shrink Tube Continuous/Segmented Expanding Equipment**

- Continuous Expander
- Segmented Expander
- Terminal Point Expander
- Weatherproof Conduit Skirt Expander
- Cable end Caps
- Heat Shrink Finger Expander
- Heat Shrink Tube Adhesive Coating Equipment

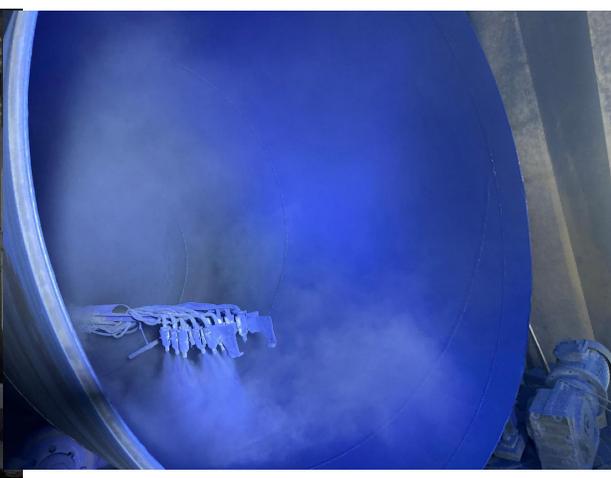
**Factories in the South**

**Insulating Heat Shrink (Products)**

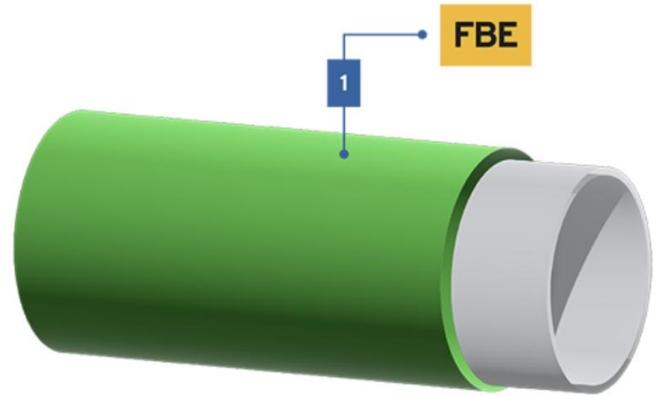
- Insulated Pipe Terminals
- Thermoplastic Busbars
- Heat Shrink Busbar Boxes
- Heat Shrink Terminals
- Heat Shrink Intermediate Joints
- Insulating Shields
- Cable Repair Patches
- Rainshields
- End Caps
- High and Low Voltage Insulaed Terminals



# Anti-corrosion Production Line ( FBE, 3LPE )



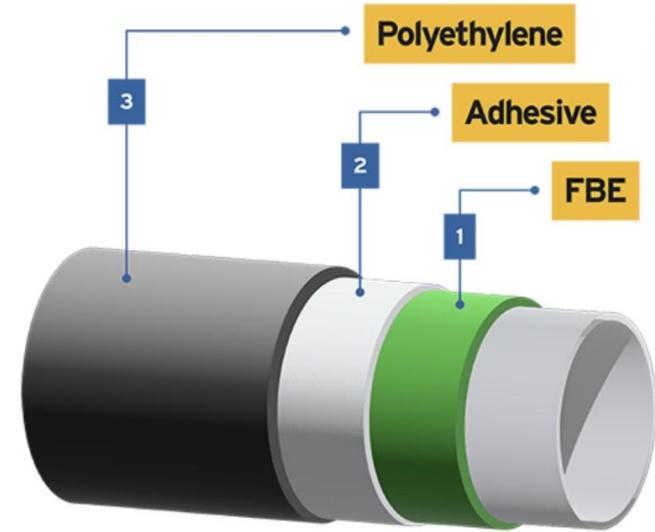
# Anti-corrosion Production Line ( FBE, 3LPE )



**Fusion Bonded Epoxy (FBE)**

[Download](#)

[View](#)



**3-Layer Polyethylene (3LPE)**

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[View](#)

## 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	<ul style="list-style-type: none"> <li>- External: 3 PE (Three-Layer Polyethylene)</li> <li>- Internal: Solvent/Solventless Epoxy Paint</li> </ul>
Bend Pipe Dimensions	<ul style="list-style-type: none"> <li>- Pipe Diameter: 6" - 60"</li> <li>- Angles: 15°, 30°, 45°, 90°, 180°</li> <li>- Bend Radius: 3 D, 4 D, 5 D</li> <li>- Wall Thickness: 6.4 - 39 mm</li> <li>- Maximum Length: 7 m</li> </ul>
3 PE External Coating	<ul style="list-style-type: none"> <li>- 1st Layer (Epoxy Powder): 150 - 600 μm</li> <li>- 2nd Layer (AD Adhesive): 200 - 450 μm</li> <li>- 3rd Layer (PE): 1.6 - 4.5 mm</li> </ul>
Internal Epoxy Painting	<ul style="list-style-type: none"> <li>- Solvent-Based or Solventless Epoxy Coating</li> </ul>





## Coating Machine



## Packing Machine



## End Cap



## Breakout



## Cutting machine



## CORE PRODUCTS

1. Heat Shrink Tube Production Line

2. Anti-corrosion Coating Line FBE/2LPE/3LPE

3. Pre-Insulated Pipe Production Line

4. Rubber&Plastic Production Line XPE, PP, HDPE, PPR

5. Finished Pipes & Tubes





Smart

# 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 inches	Three inches	Four inches	Six inches	Eight inches	10 inches	12 inches	14 inches
50.8mm	76mm	114mm	159mm	219mm	273mm	323.9mm	355mm
Never done that	Never done that	A whole machine covers it		A whole machine covers it			
9	10	11	12	13			
16 inches	18 inches	20 inches	22 inches	24 inches			
406mm	457mm	508mm	559mm	610mm			
A whole machine covers it							

- 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.



# PU Spraying & PE Winding Pre-Insulated pipe PL



## Connection entanglement protection

High-efficiency and energy-saving extruder for continuous extrusion  
Mechanical clamping device for dense winding



## Automatic online tracking

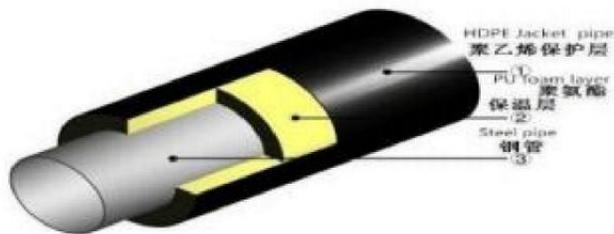
Automatic tube tracking on line, end-to-end connection  
The transportation and management trolley is on line to protect the foam



## Automatic cutting

Automatic cutting when in place, three-cut anti-corrosion layer  
Automatic tube removal when off-line, accelerated disconnection  
Automatic off line

# HDPE jacket pipe production line



Outer protective casing of PUF, which is widely used in central heating and cooling, oil transportation and other industrial area .



# HST extrusion line

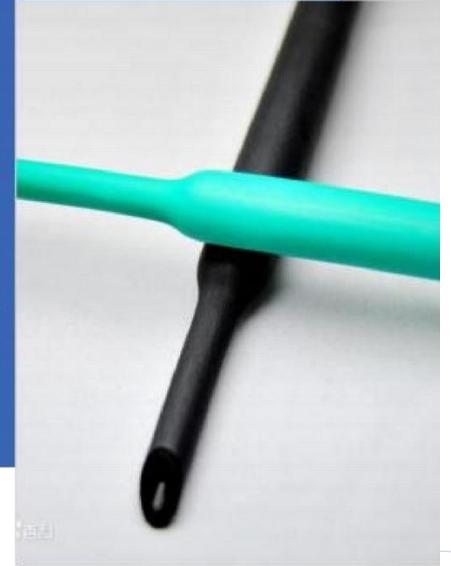
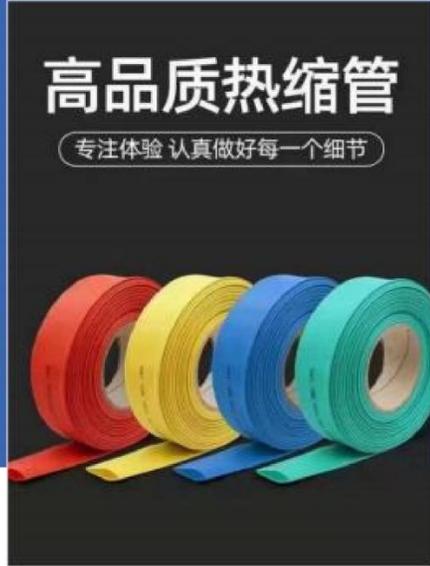




## HST Expansion Machine

- The HST expansion machine is mainly used for the production of heat-shrinkable tubes, using glycerin 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 tubes



热缩中间接头  
Heat shrink intermediate joint

热缩母排盒  
Heat shrink busbar box

冷缩终端  
Cold shrink terminal

冷缩中间接头  
Cold shrink intermediate joint

绝缘护罩  
Insulation shield



管径 Diameter	管长 Pipe
20	φ25
20	φ30
20	φ40
20	φ50
20	φ60
20	φ70
20	φ80
20	φ90
20	φ100
20	φ120
20	φ150



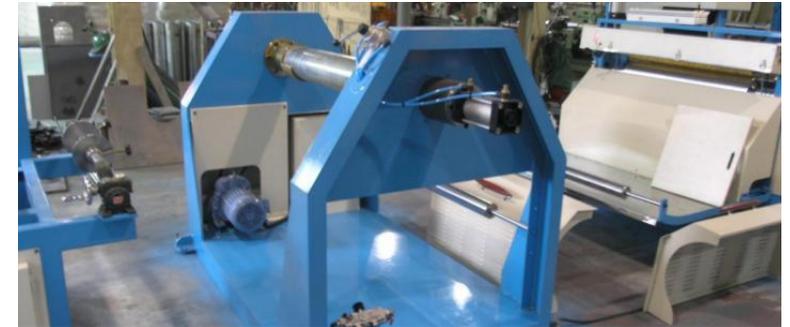
10、20、30  
10、20、30  
intermediate





# XPE Foaming Production Line

- Main Equipment Components: Granulating 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, rubber track, sporting goods companies.





# PP/ PE Sheet/ Board/Plate Extrusion Line

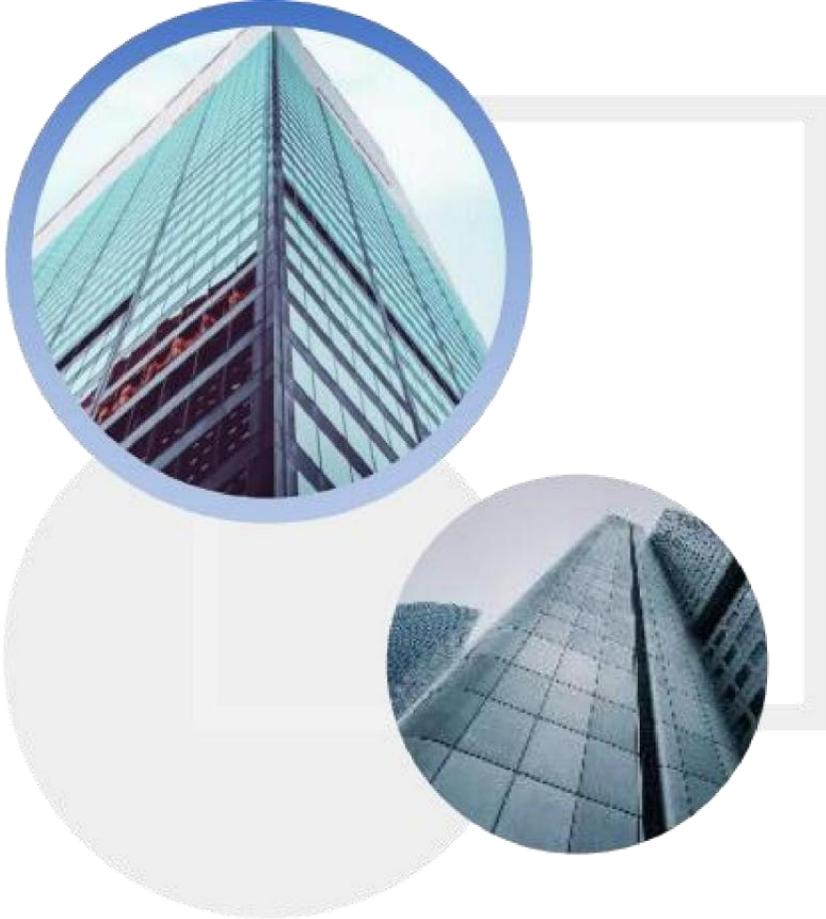
The PP/PE Sheet/Board/Plate Extrusion Line is a high-efficiency energy-saving line independently researched and developed by our company. It has low energy consumption, high output and it is very easy to operate.



# PPR Fiberglass/ HDPE Pipe Production Line



# Overseas customer cases



**Saudi Arabia**

**Iran**

**Columbia**

**Russia**

**Armenia**

**Nigeria**

**Ethiopia**

**Kazakhstan**

**Korea**

**Slovakia**

**Germany**

**USA**