

# 河北固得

## 环保设备有限公司

**Hebei GuDe Enviromental  
Protection Equipment Co., LTD.**

FRP TANK

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FRP PIPE

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FRP TOWER

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FRP PROFILES

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FRP GRATING

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FRP Products for Sewage treatment Flue and  
Gas Treatment Equipment





## FRP Process Pipe 玻璃钢工艺管道



### Excellent performance:

Zero maintenance cost: no anti-corrosion coating required, anti-ultraviolet aging (protective layer can be added).

Quick installation: modular design, flexible connection method, construction efficiency increased by 50%.

Environmental protection and safety: no heavy metal precipitation, in line with FDA and ISO 14692 standards.

Good insulation: resistivity  $>10^{12}\Omega\cdot\text{cm}$ , eliminating electrochemical corrosion.

Anti-frost heave: elastic modulus adapts to temperature deformation, no brittle cracking at  $-30^{\circ}\text{C}$ .

Economic benefits: the full life cycle cost is 30%-60% lower than that of metal pipes.

Corrosive medium transportation: chemical park, electroplating plant, pharmaceutical company.

High-pressure pipeline system: oilfield water injection pipe, natural gas gathering and transportation pipe.

Municipal environmental protection: urban integrated pipeline corridor, sewage treatment plant.

Special environment: high-cold areas, coastal salt spray areas, underground humid environment.







## FRP Process Pipe 玻璃钢工艺管道

### Why Choose our FRP Pipeline?

Strict control of raw materials: using OCV glass fiber, Huntsman resin and other international brand substrates.

Process guarantee: fully automated winding production line, 100% water pressure/ultrasonic testing.

Service support: provide value-added services such as fluid compatibility analysis, stress calculation, installation guidance, etc.



| DN   | 0.6MPa |         | 1.0MPa |         | 1.6MPa |         | 2.5MPa |         | L ( m ) |
|------|--------|---------|--------|---------|--------|---------|--------|---------|---------|
|      | t(mm)  | w(kg/m) | t(mm)  | w(kg/m) | t(mm)  | w(kg/m) | t(mm)  | w(kg/m) |         |
| 25   | 4.5    | 0.8     | 4.5    | 0.8     | 4.5    | 0.8     | 4.5    | 0.8     | 1       |
| 32   | 4.5    | 1       | 4.5    | 1       | 4.5    | 1       | 4.5    | 1       | 1       |
| 40   | 4.5    | 1.2     | 4.5    | 1.2     | 4.5    | 1.2     | 4.5    | 1.2     | 1       |
| 50   | 4.5    | 1.5     | 4.5    | 1.5     | 4.5    | 1.5     | 4.5    | 1.5     | 3       |
| 65   | 4.5    | 1.9     | 4.5    | 1.9     | 4.5    | 1.9     | 5.5    | 2.3     | 3       |
| 80   | 4.5    | 2.3     | 4.5    | 2.3     | 4.5    | 2.3     | 5.5    | 2.8     | 6       |
| 100  | 4.5    | 2.8     | 4.5    | 2.8     | 5.5    | 3.5     | 5.5    | 3.5     | 8       |
| 125  | 5      | 3.9     | 5      | 3.9     | 5.6    | 4.4     | 6.5    | 5.1     | 8       |
| 150  | 5      | 4.6     | 5.5    | 5.1     | 6      | 5.6     | 7.5    | 7       | 10      |
| 200  | 5.5    | 6.7     | 6      | 7.4     | 6.5    | 8       | 8      | 9.9     | 12      |
| 250  | 6      | 9.2     | 6.5    | 9.9     | 6.5    | 9.9     | 9.5    | 14.7    | 12      |
| 300  | 6.5    | 11.9    | 7      | 12.8    | 7      | 12.8    | 10.5   | 19.5    | 12      |
| 350  | 6.5    | 13.8    | 7      | 14.9    | 7.5    | 16      | 11.5   | 24.8    | 12      |
| 400  | 7      | 17      | 7.5    | 18.2    | 8      | 19.5    | 14     | 34.6    | 12      |
| 450  | 7      | 19.1    | 7.5    | 20.5    | 8      | 21.9    | 15     | 41.6    | 12      |
| 500  | 7.5    | 22.7    | 8      | 24.2    | 9      | 27.3    | 16     | 49.3    | 12      |
| 600  | 8.5    | 30.9    | 9      | 32.7    | 12     | 43.8    | 19     | 70.2    | 12      |
| 700  | 9      | 38.1    | 11     | 46.7    | 14     | 59.6    | 22     | 94.8    | 12      |
| 800  | 9.5    | 45.9    | 12.5   | 60.6    | 16     | 77.9    | 23.5   | 115.5   | 12      |
| 900  | 10.5   | 57      | 14     | 76.3    | 17.5   | 95.8    | 25     | 138     | 12      |
| 1000 | 12     | 72.5    | 15     | 90.8    | 19     | 115.5   | 27     | 165.4   | 12      |
| 1200 | 13     | 94.1    |        |         |        |         |        |         | 12      |
| 1400 | 16     | 135.2   |        |         |        |         |        |         | 12      |
| 1500 | 17     | 153.9   |        |         |        |         |        |         | 12      |
| 1600 | 18     | 173.8   |        |         |        |         |        |         | 12      |
| 1800 | 20     | 217.2   |        |         |        |         |        |         | 12      |
| 2000 | 23     | 277.6   |        |         |        |         |        |         | 12      |
| 2200 | 24     | 318.4   |        |         |        |         |        |         | 12      |
| 2500 | 27.5   | 414.7   |        |         |        |         |        |         | 12      |
| 2600 | 28.6   | 448.5   |        |         |        |         |        |         | 12      |
| 2800 | 30.2   | 509.9   |        |         |        |         |        |         | 12      |
| 3000 | 32.5   | 588     |        |         |        |         |        |         | 12      |
| 3400 | 35.9   | 735.9   |        |         |        |         |        |         | 12      |
| 3600 | 37.6   | 816     |        |         |        |         |        |         | 12      |
| 4000 | 39.8   | 959.2   |        |         |        |         |        |         | 12      |



## FRP Mortar Pipe 玻璃钢夹砂管道



### Application areas

Urban underground pipelines: replace concrete pipes to solve corrosion and leakage problems.

Power plant desulfurization system: acid and alkali resistant, suitable for wet desulfurization slurry transportation.

Oilfield gathering and transportation pipelines: corrosion resistance, reducing the erosion of crude oil and sewage on pipelines.

Highway drainage: light weight, high strength, high construction efficiency.

### Main uses :

Municipal engineering: water supply and drainage, rainwater collection, and sewage treatment pipelines.

Industrial field: transportation of corrosive media in chemical, electric power, papermaking, and pharmaceutical factories.

Agricultural irrigation: water-saving irrigation system, water supply network.

Marine engineering: desalination, dock sewage discharge, and offshore platform pipelines.

Other fields: ventilation ducts, cable protection casings, mine tailings transportation, etc.







## FRP Process Pipe 玻璃钢喷淋管道



### Advantages and Features

Super corrosion resistance: completely solve the problems of metal pipe rust and electrochemical corrosion, suitable for high-corrosion scenarios such as desulfurization and electroplating.

Lightweight and easy to install: the length of a single pipe can reach 12 meters, reducing the number of connection points and reducing the lifting cost by 30%.

Maintenance-free design: no anti-corrosion coating is required, no scaling problem, and the cost of the entire life cycle is reduced.

Environmental protection and energy saving: the production energy consumption is only 1/3 of that of steel pipes, and 100% can be recycled.

Customized service: supports customization of diameters from DN50 to DN3000mm, and provides a variety of connection methods such as flanges and sockets.

### Application areas

Environmental protection engineering: Flue gas desulfurization (FGD) spray tower circulation pipeline, wastewater treatment plant.

Chemical industry: Pickling production line, electrolyte transportation, chemical plant circulation cooling system.

Energy and power: Power plant cooling water system, nuclear power plant auxiliary pipeline.

Marine engineering: Seawater desalination, ship ballast water treatment.

Other fields: Process spray systems in papermaking, pharmaceutical, food processing and other industries.





## FRP ipe Fitting 玻璃钢管件

The accessories of FRP pipes include elbows, tees, flanges, Y-joints, T-joints, reducers, etc.

1. Socket & Spigot Adhesive Joint
2. Flanged Joint
3. O-Ring Socket Joint
4. Butt & Wrap Joint
5. Clamp Coupling







## FRP Tank Production 玻璃钢罐生产现场



The production process of FRP tank body mainly includes  
**lining process and winding process,**  
which are the core manufacturing processes.



## FRP Pipe Production 玻璃钢管道生产现场



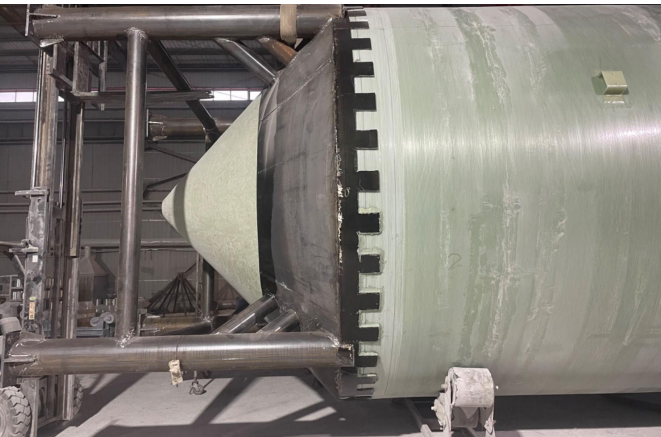
Lining production , Winding molding, Curing demoulding and trimming

Features: High degree of automation, suitable for mass production, strength can be designed in a directional manner.





## FRP Parts Assembly 玻璃钢部件组装





## Why US



Strict quality control: ISO 9001 certification, full-process testing to ensure product consistency.

Professional design support: Provide media compatibility analysis, structural strength simulation and other services.

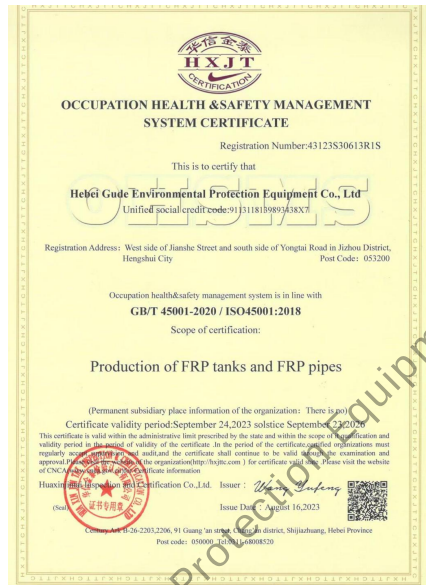
Fast delivery: mature production lines support large-volume orders.

If you need further technical parameters or case materials, please feel free to contact us!











# 谢谢观看

Thanks for watching

FRP has become an important material in modern industry, municipal construction and other fields due to its excellent corrosion resistance, high strength, lightweight and safety and anti-slip advantages. As a professional FRP manufacturer, we can provide customized solutions according to customer needs to ensure product performance and service life. If you need more technical parameters or purchase consultation, please feel free to contact us!

—— Hebei GuDe, a professional fiberglass grille manufacturer



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***Welcome Your Inquiry!***