

Winder[®]
Higher Technology, Cleaner Water.

2019



Hebei ChengDa HuaMo Technology Co., Ltd.
Hebei Province, China



Hebei ChengDa HuaMo Technology Co., Ltd. found in 1976, with registered capital of RMB 2600 million. It covers an area of 20 acres and has 200 employees, including 10 engineers and 10 inspectors. Chengda is a private high-tech enterprise with import and export right which specialized in R&D, production and sales of FRP RO pressure vessel for water treatment, DTRO (disc-tube reverse osmosis) housing, FRP high flow filter housing, FRP tank, as well as water treatment fittings.

Chengda's brands of FRP pressure vessels include Winder series and Rohone series. The annual output can up to 150,000 pcs. We independently research and develop FRP pressure vessel parts and have a number of accessories equipment. Thus ensure the supply and quality stability of the important parts.





The company owns multiple independent intellectual property rights of membrane housing production lines, with advanced production equipment, perfect testing equipment and strong R&D capability.

Winder[®] has got the international certifications including the ASME, ISO 9001 (Quality Management System), ISO 14001 (Environmental Management System), OHSAS 18001 (Occupation Health and Safety Management System), etc.

Winder[®] and **ROHONE**[®] series FRP pressure vessels have a wide-range in applications. E.g. national key sea water desalinization projects, industrial sewage treatment, brackish water desalination projects, domestic drinking water, etc. The working pressure can be available in 300 PSI, 450 PSI, 600 PSI, 1000 PSI, 1200 PSI, 1500 PSI and 1800 PSI. There are side port diameter of 1.45", 2", 2.5" and 3" for choice. Containable built-in membrane elements are from 1 to 8 sections. Our products are applicable to most standard membrane elements, e.g. Filmtec, Hydranautics, Osmonics, Koch, Toray, CSM, Vontron and BDx.

Winder[®]



Eight Systems



01 Supply System

a.

After 20 years of precipitation, domestic and foreign suppliers are the three or more annual finalists that Chengda has finalized after a number of field visits, sample inspections, negotiations and evaluations.

b.

The shortlisted suppliers will be graded every year, and those who fail will be eliminated. Suppliers with major quality problems will never be included in the list of Chengda group purchasers.

c.

Chengda is equipped with a large comprehensive testing center for the testing of raw materials, auxiliary materials, accessories, finished products and the development of new processes.

d.

Chengda is equipped with special testing equipment and professional personnel to carry out professional sampling inspection of each batch of raw materials, auxiliary materials and accessories. So as to ensure there are no unqualified.

- i. Inspection qualified before storage.
- ii. All rejected products will be returned, not allowed to enter the storage and production areas.
- iii. If major quality problems and accidents caused by unqualified raw materials are found in the production process, the supplier shall be investigated for responsibility. And the supplier shall never be included in the procurement list of Chengda.





02 Key Parameter Production Process Control System

a.

We strictly implement 6S production site improve system originated from Japan.

b.

Product quality control testing is divided into two systems

- i. Hydrostatic test shall be done for each FRP pressure vessel with 1.1 times of the designed pressure, 100% test, not sampling. The test shall be performed in strict accordance with the requirements of ASME, and keep pressure for 6 minutes to ensure no leakage.



- ii. 1000 pcs of the same model are a batch, and carry out sampling inspection

- 100, 000 times of fatigue tests shall be done on the same grade FRP pressure vessels.
- Burst test with 6 times of its design pressure shall be done on the same grade FRP pressure vessels.



c.

Have a 10-people quality inspection team to carry out tracking and quality inspection of raw materials, auxiliary materials, accessories and finished products for 24 hours.

d.

Each FRP pressure vessel has a unique ID code to make sure it can be traced back to the person in charge of each process (It is also the security code of our company's products).



03 Self-Developed Advanced Automatic Production Line System and Process Technology

a.

Chengda and Wuhan University of Technology in China have jointly developed a world-leading winding equipment and production process technology to improve the reliability of equipment operation and ensure product stability.

b.

Adopting the most advanced pre-embedded process in the world to avoid the damage of the glass fiber layer during the grooving process, thereby ensuring the pressure coefficient of the membrane shell and improving the quality stability of the membrane shell.

c.

Self-developed and put into use of automatic manipulator hydro-grinding shaping production line system. So as to improve production efficiency and product performance stability, reduce labor intensity and costs.

d.

Self-developed side port molding production line system has high precision performance. And the tolerance is controlled within 1mm, so as to improve production efficiency and product performance stability, reduce labor intensity and costs.

e.

Self-developed automatic large-scale coating equipment improve the adhesion of the pressure vessel and coating, as well as the production efficiency.

The above self-developed equipment and process technology ensure product quality and improve product stability, reduce labor intensity and costs. Thus realize the fully automated assembly line operation of the factory to meet the production standards of modern enterprises.

** Due to the confidentiality of the multiple self-developed mechanical equipment and production processes in the workshop, the pictures are not displayed here. These devices can be seen when you visit the workshop, but no photos are allowed. Please understand.*



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04. Warehousing System: ISO 9001.

05. Packaging System Customized According to Customer Requirements.

06. Quality Control System Strictly Implement ISO9001 International Quality Management System.

a.

We own a 10-person quality inspection team, which is responsible for monitoring the quality of raw material suppliers and the quality tracking of each process in the production.

b.

Each FRP pressure vessel has a unique ID code to make sure it can be traced back to the person in charge of each process.

c.

Winder[®] series FRP pressure vessel strictly implement ASME standards.

Winder®

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07 Inspection System Before Shipment

A 10-person quality inspection team not only carries out quality inspection in the production process, but also makes the final quality inspection before delivery. Qualified products shall be delivered after the qualified certificate is pasted by the supervisor of quality inspection department.

08 After-Sales Service System

One Year Warranty, Life-Long Maintenance.



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