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# 奥联德 AOLIANDE 系列产品及设备

SERIES PRODUCTS & EQUIPMENT

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INTEGRITY COOPERATION WIN-WIN



河北奥联德化工设备有限公司

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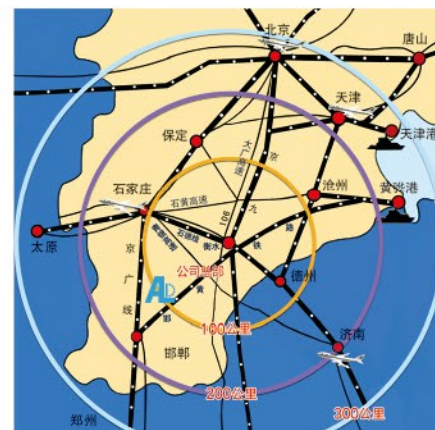
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# 公司简介 COMPANY PROFILE



河北奥联德化工设备有限公司是一家专业生产销售成套化工设备，成套玻璃钢产品生产线，同时生产复合材料 SMC产品的公司，通过了ISO9001、ISO14001、ISO45001管理体系认证SGS认证等产品已销往世界各地，美国、加拿大，澳大利亚 巴西、日本、德国、俄罗斯，印度、马来西亚、印度尼西亚、埃及等国家，赢得广大新老客户的支持和信任好评。

- EPC化工设备系列：曼海姆法硫酸钾成套生产设备 硫酸钠生产设备 成套硫酸设备成套氯化钙生产设备。

- EPC成套玻璃钢产品生产线系列：微机控制成套玻璃钢管道，储罐缠绕生产线 成套玻璃钢格栅生产线 成套玻璃钢拉挤型材生产线 SF/FF油罐生产线。

- 玻璃钢产品系列：玻璃钢高、中、低压管道；玻璃钢储罐；玻璃钢塔；整体浇注超级电解槽；SF、FF双层油罐；玻璃钢冷却塔；玻璃钢模压SMC/BMC、拉挤系列产品及其他定制玻璃钢产品玻璃钢防腐等。

河北奥联德化工设备有限公司根据产品类别设立了曼海姆法硫酸钾化工设备设计 制造 安装，多种复合材料产品生产线设计 制造 安装 多种复合材料产品制造三个分公司，通过专业和技术上的研发和升级并获得了多项专利。公司凭借先进的技术、精湛的工艺、可靠的质量和完善服务，不但有产品的供货能力，还具有有限元分析（材料、结构、产品的设计）项目总承包能力，我公司可为客户提供技术咨询、供货、运输、安装指导等一体服务。

- 主要应用领域：  
硫酸钾、电力、水利、冶金、化工、制药、氯碱、海水淡化、印染、造纸、钛白、 污水处理、固废焚烧处理、食品酿造、石油贮存、建筑、市政工程、公路设施、军工等领域。

Hebei Aoliande Chemical Equipment Co., Ltd. is a company specialized in production and sales of complete sets of chemical equipment, complete sets of fiberglass product production lines, and meantime manufacture composite material and SMC products. We have got the Certificate of management system ISO9001, ISO14001, ISO45001, and SGS certificate. Our Production line and products have been sold to all over the world, including the United States, Canada, Australia, Brazil, Japan, Germany, Russia, India, Malaysia, Indonesia, Egypt and other countries, winning the support and trust of new and old customers.



- EPC chemical equipment series: Mannheim process complete sets of potassium sulfate production equipment, sodium sulfate production equipment, complete sets of sulfuric acid equipment, complete sets of calcium chloride production equipment;

- EPC complete sets of FRP product production line series: microcomputer controlled complete set of FRP pipes, FRP tank filament winding production line, complete set of FRP grating production line, complete set of FRP pultruded profile production line, SF/FF oil tank production line.

- Fiberglass product series: high, medium and low pressure FRP pipe, FRP tank, FRP tower, Polymer concrete cells, SF/FF double-layer oil tanks, FRP cooling tower, FRP SMC/BMC molded products, FRP pultrusion profiles and other customized fiberglass products, FRP anti-corrosion project, etc.

Hebei Aoliande Chemical Equipment Co., Ltd. has established three divisions based on product categories. The main business of each category are:

- 1.Design, manufacturing, and installation of Mannheim process potassium sulfate chemical equipment;
- 2.Design, manufacturing, and installation of various composite/fiberglass product production lines;
- 3.Manufacture of various fiberglass products.

By continuously developed and upgraded on profession and technical area, we have obtained a number of patents. With the advanced technology, exquisite craftsmanship, reliable quality and perfect service, Aoliande Company not only can supply the Products and equipment, but also has the project EPC ability, can using FEA (for material, structure, product design). Our company can provide customers with integrated services such as technical consultation, supply, transportation, and installation guidance.

- Main application Industry lines:

Potassium sulfate, electric power, water conservancy, metallurgy, chemical industry, pharmaceuticals, chlor-alkali, seawater desalination, printing and dyeing, papermaking, titanium dioxide, sewage treatment, solid waste incineration treatment, food brewing, petroleum storage, construction, municipal engineering, highway facilities, military industry etc. various fields .





## T 技术检测 TECHNICAL TESTING

检测中心拥有专职的质量负责人员，并按照CNAS认可以及CMA认证的要求建立了一套完整可靠的质量控制体系，保证了测试过程的专业性和公正性。

检测中心与国家标准局以及复合材料行业的权威测试机构保持密切联系；能及时掌握复合材料的技术发展动态、检测技术发展动态、国内外测试标准以及产品标准等信息；保证测试技术、方法的及时有效性、可靠性和先进性。

检测中心拥有多名复合材料、机械设计、结构分析、高分子、非金属材料等等各专业的专业人才，具备了复合材料产品设计和开发能力，可以提供专业的复合材料产品、结构、工艺等的设计开发工作。为客户提供满意的服务。

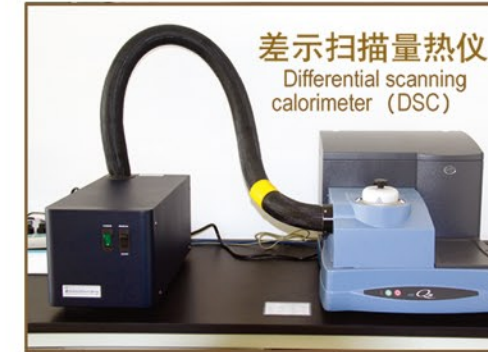
Testing center has a professional team for testing and quality control. We build a thorough quality control system to make sure that our testing process is accurate and just according to CNAS and CMA requirement.

We keep a closely connection with National Bureau of Standards and authoritative testing institutions of Composite field. We can get the newest informations about testing standard and development direction, and know technology trends of composite material to keep our result reliable. We would improve our testing technology and method timely to make sure it is the latest, reliable, advanced.

Our members are engaged in composite, Polymer, mechanical design, structural analysis, and non-metallic material research. We have a composite material Research and development ability. We can supply client with professional structural design, technology design and composite production. Client is the first. We will provide the most satisfactory service to our client.



精锐的设计团队 An elite design team



# F 玻璃钢管道 RP PIPE



玻璃钢管道由内层、缠绕层、树脂砂浆层和外防腐层构成，其密度为1.7-2.1，相当于钢管的1/5，球墨铸铁管道的1/4，它具有优异的耐腐蚀性能，良好的水力性能，抗震，易安装等特点。

直径：DN15-DN4000MM

压力：重力，0.6MPa，1.0MPa，1.6MPa，2.0MPa，2.5MPa

硬度：SN2500、SN5000、SN7500、SN10000

连接：带双O形环的承插接头、对接接头、带式接头、法兰接头等。



玻璃钢夹砂管道 FRP MOTAR PIPE



玻璃钢工艺管道 FRP PROCESS PIPE

玻璃钢烟囱 FRP CHIMNEY

FRP/GRP pipe is composed of inner layer, wound layer, resin-mortar layer and external corrosion resist layer, it's density is 1.7-2.1, equals to 1/5 of steel pipe, 1/4 of ductile iron pipe, it has excellent properties-corrosion resist, good hydraulic property, shock-resist, easily installation etc.

Diameter: DN15-DN4000mm

Pressure: gravity, 0.6MPa, 1.0MPa, 1.6 MPa, 2.0 MPa, 2.5MPa

Stiffness: SN2500, SN5000, SN7500, SN10000

Connections: spigot & socket joint with double O rings, Butt & strap joint, flanged joint etc.



玻璃钢喷淋管 FRP SPRAY PIPE



玻璃钢三通 FRP TEE



玻璃钢弯头 FRP ELBOW



玻璃钢法兰 FRP FLANGE



玻璃钢变径 FRP REDUCER

## F 玻璃钢储罐 RP TANK

玻璃钢储罐生产过程由微机控制，使用不同的树脂和玻璃纤维，以满足客户的要求，具有耐腐蚀性、重量轻、强度高、使用寿命长等特点。

直径：DN600-DN2500MM

体积：高达2500M<sup>3</sup>

类型：立式、卧式

FRP/GRP tank be produced by computer control filament winding process, use different resins and fiberglass to satisfy client's requirements, it's features are corrosion resist, light weight, high strength, long service life etc.  
Diameter: DN600-DN2500mm  
Volume: upto 2500m<sup>3</sup>  
Type: vertical, horizontal



立式玻璃钢储罐 FRP VERTICAL TANK



卧式玻璃钢储罐 FRP HORIZONTAL TANK



现场缠绕大型罐 SITE WINDING MAX TANK

## F 玻璃钢塔器 RP TOWER

玻璃钢塔器以其重量轻、强度高、耐腐蚀范围广、可设计性好等特点在氯气干燥、钢铁冶金废气处理、发酵和酿造、粘胶纤维、钾肥和复合肥（NPK）等行业得到广泛应用。

奥联德公司通过采用有限元分析软件，在塔器设备的设计、制造方面使玻璃钢的各项性能得到了更全面、更合理、更有效的发挥。

在特殊工况下，如有机溶剂、高温、高纯介质等，可以采用PVC、PP、HDPE、PVDF与玻璃钢复合制作，既能满足耐腐蚀的要求，还能够有足够的强度，拓宽了应用领域。

As the characteristics of light weight, high strength, corrosion resistance and easy designability, FRP Tower are widely used in chlorine drying, metallurgy, waste gas treatment, brewage, viscose fiber, potash fertilizer, compound fertilizer (NPK) industries, etc.

ALD Company adopt finite element analysis, with reasonable design and manufacture to exerted the every excellent property of FRP, make the products more comprehensive, more reasonable, more effective.

Under the special working conditions, such as organic solvent, high temperature, high purity medium etc, we can use PVC, PP, HDPE, PVDF as inner liner, reinforced with FRP to form composite products to meet both the corrosion resistance and strength requirements.



玻璃钢+PP复合塔器 FRP+PP COMPOSITE TOWER



玻璃钢+PVC复合塔器 FRP+PVC COMPOSITE TOWER



玻璃钢净化塔 FRP PURIFICATION TOWER



## SF油罐 F OIL TANK

S/F储罐为双层储罐，S表示钢，F表示玻璃钢，内层为由6-8MM钢板制成，外层由玻璃纤维增强塑料制成，以提供优异的抗冲击、抗腐蚀、抗电蚀等性能，被广泛应用于油站、大型化工厂、炼油厂等。

S/F tank is Double layer storage tank, S-steel, F- FRP, inner layer is made of 6-8mm steel plate, outer layer is fiberglass, to provide excellent shock resist, corrosion resist, electrical erosion resist etc, be widely used in oil station, large chemical plant, refining plant etc.



## FF油罐 F OIL TANK

被广泛应用于储油站的FF双层储罐也称非金属双层储罐，分为内壁、间质层（中空层）和外壁。内外壁间的间质层形成贯通的空隙，可用于对双层罐进行渗漏监测，无论是内层或外层发生渗漏，都能在间质层内被发现，从而有效的避免渗漏油品进入环境污染土壤和地下水。

FF double-layer storage tanks, also known as non-metallic double-layer tank, are widely used in oil storage stations and are divided into inner walls, intermediate layers (hollow layers), and outer walls. The interstitial layer between the inner and outer walls forms a continuous gap, which can be used for leakage monitoring. Whether leakage occurs in the inner or outer layer, it can be detected here, effectively avoiding the entry of leaked oil into the environment to pollute soil and groundwater.



## E整体电解槽 LECTROLYTIC CELL

乙烯基树脂整体浇注电解槽是有色金属湿法冶金企业的主要设备，它有着较好的绝缘性和隔热性，与其他材质的电解槽相比有着不可比拟的优越性能。

Polymer Concrete Cells is vinyl ester resin monolithic cell is for electrolyte. It the main equipment of Nonferrous Hydrometallurgical, it has good insulation and heat resistance, compared with other material cells, the Polymer Concrete Cell has incomparable superiority.



电解槽的设计，制造和安装，能满足世界上槽室操作员要求的最严厉的条件。多数情况下，他们的主要要求是保证整个工厂的生产利用率，在人员和环境绝对安全的情况下，使高纯金属（铜，锌，镍，钴，铅和其他金属）的产能最大化。

electrolytic cells are designed, built and installed to satisfy the most stringent requirements requested by tankhouse operators worldwide. In most cases their main request is to guarantee full operating availability throughout the plant's lifespan, maximizing production of high-purity metal (copper, zinc, nickle, cobalt, lead or other) with absolute safety for people and the environment.



电解槽在设计中，消除了顶尖和锐边，在内部和外部连接中用圆滑的曲线替代，厚度上的突然变化改成逐渐过渡，消除了应力集中并且降低了材料消耗，使重量比原来减轻了12-15%。

electrolytic cells design eliminates corners and sharp edges, replacing them with smooth curves in the interior and exterior junctions. Abrupt changes in wall thickness become gradual transitions throughout the structure, mitigating stress concentrations and reducing material usage and weight by 12 - 15% maintaining the cell's holding capacity.

## C 冷却塔 COOLING TOWER

圆形逆流式低噪声、超低噪声冷却塔，适用于空调制冷等一般水温降的冷却。水温降一般为3-8℃，适合于对噪声要求较严的地方，如宾馆、医院、公共建筑以及距居民较近的场所。

工业型/中高温冷却塔水温降一般为10-25℃，适合于水温降较高的工业用水的冷却。

Round type counter-flow cooling tower, low noise and ultra-low noise, suitable for air conditioning refrigeration general water temperature drop cooling. The water temperature drop is generally 3-8 °C, suitable for places with strict noise requirements, such as hotels, hospitals, public buildings, and places close to residents.

Industrial medium or high temperature cooling towers suitable for cooling industrial water with high water temperature drop. The water temperature drop generally is 10-25 °C,.



方形逆流式冷却塔分工业型/中高温冷却塔，水温降一般为10-25℃，适合于水温降较高的工业用水的冷却。单格水量为100-4000m3/h，广泛用于石油、化工、冶金、发电等企业大水量的循环系统。

Square Type counter-flow cooling towers are divided into industrial medium or high temperature cooling towers, with a water temperature drop of generally 10-25 °C, suitable for cooling industrial water with high water temperature drop.

The single cell water volume is 100-4000m3/h, widely used in large water circulation systems in enterprises such as petroleum, chemical, metallurgical, and power generation.



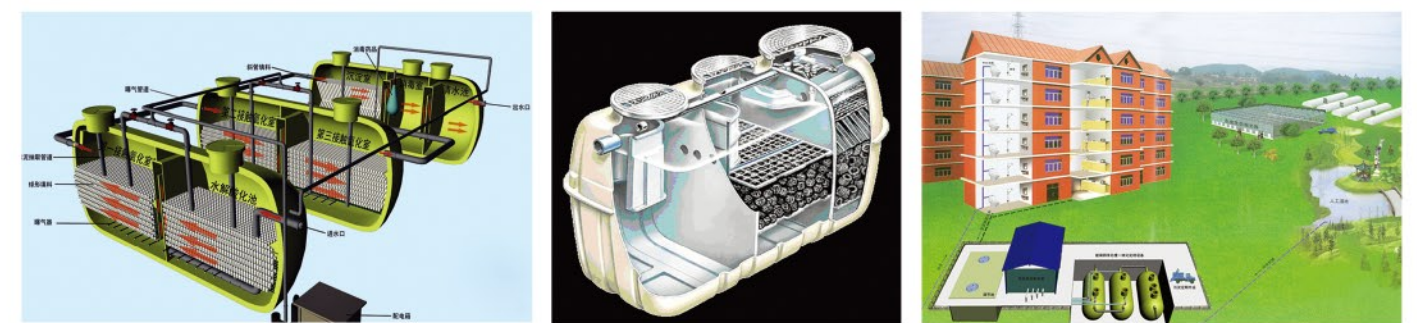
## C 净化槽 CLARIFICATION TANK

奥联德公司引进设备和技术并结合国内技术标准设计开发的玻璃钢一体污水净化槽，适用于没有下水管网地区的综合污水处理，包括厨房、厕所、洗浴、洗菜、洗漱等户排污水。出水水质可直接绿化或排入附近河域。

该设备是一体式的玻璃钢构造，具有设备轻便、使用寿命长、占地面积小、施工安装简单等优点。玻璃钢净化槽主要采用“水解酸化+接触氧化”的污水处理方法，设置有水解酸化室、接触曝气室、沉淀室、消毒室，能高效去除水中的BOD、COD、氨氮、SS等污染物。

Aoliande has introduced equipment and technology, in combination with domestic technical standards, has designed and developed FRP integrated sewage purification tank. It is suitable for comprehensive sewage treatment in areas without drainage networks, including kitchen, toilet, bathing, vegetable washing, and household sewage discharge. The quality of treated water can be directly used for greening or discharged into nearby rivers.

This equipment is an integrated FRP structure, which has advantages such as lightweight, long service life, small footprint, and simple construction for installation. The FRP purification tank mainly adopts the sewage treatment method of "hydrolysis acidification + contact oxidation", which is equipped with hydrolysis acidification chamber, contact aeration chamber, sedimentation chamber, disinfection chamber, and can efficiently remove pollutants such as BOD, COD, ammonia nitrogen, SS, etc. in the water.



## C 电缆桥架 CABLE TRAY

材料：玻璃钢、钢、复合

类型：梯型、穿孔型、槽型

标准尺寸：100\*100MM、200\*150MM、300\*50MM、100\*50MM、200\*100MM、300\*150MM或定制

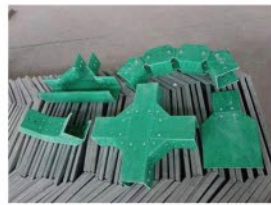
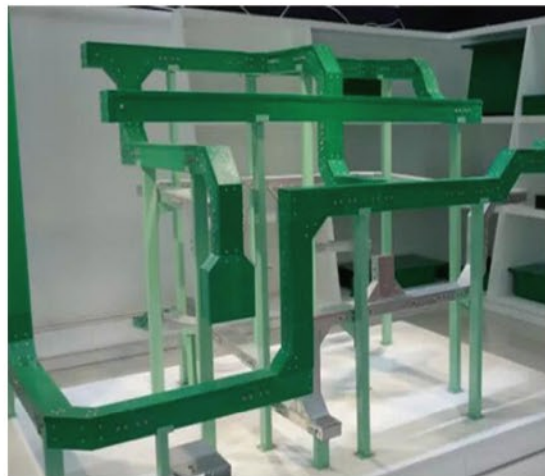
高度：30-50厘米或定制

Material:FRP, steel, aluminum alloy

Type:Ladder type, perforated type, trough type

Standard size:100\*100mm, 200\*150mm, 300\*50mm, 100\* 50mm, 200\* 100mm,300\*150mm or Customized

Height:30- 50cm or Customized



## P 拉挤型材 ULTRUSION SECTIONAL MATERIALS

拉挤型材由树脂和玻璃纤维，辅以其他辅助材料复合而成。具有耐高温、抗腐蚀、强度高、比重小、吸湿低、延伸小及绝缘好等特点。

The pultruded and extruded profiles are composed of resin and fiberglass, supplemented by other auxiliary materials. It has the characteristics of high temperature resistance, corrosion resistance, high strength, small specific gravity, low moisture absorption, small elongation, and good insulation.



多规格玻璃钢拉挤型材  
Multi-specification FRP pultruded profiles



拉挤玻璃钢格栅  
FRP Pultruded grating



玻璃钢螺栓 FRP Bolt

## S 模压水箱 MC WATER TANK

SMC模压水箱是储存水的理想物品。板式储罐是一个模块化系统，可以在现场组装和建造任何所需尺寸的储罐。

容积：0.125M<sup>3</sup>-1000M<sup>3</sup>

规范：

面板尺寸：1000MM×1000MM、1000MM×500MM、500MM×500MM

配件

内部附件：内部梯子、法兰、连接件、支架、连接件板

外部附件：外爬梯、固定角铁、辅助角铁、橡胶条、堵头、硅胶、螺栓、螺母。

SMC FRP/GRP Panel Tanks are an ideal way to store water. The panel tank is a modular system, which then enables a tank of any desired size to be assembled and constructed on site.

Volume: 0.125m<sup>3</sup>-1000m<sup>3</sup>

Specification

Size of panel: 1000mm×1000mm, 1000mm×500mm, 500mm×500mm

Accessories

Internal accessories: Inside ladder, flange, tie piece, support, tie piece board;

External accessories: Outside ladder, fixing angle iron, auxiliary angle iron, rubber strip, plugging, silicon glue, bolts and nuts.



## G 格栅 RATING

玻璃钢格栅以高强度玻璃纤维粗纱为增强材料，与不饱和聚酯树脂组成，广泛应用于发电、污水处理、炼油和海洋调查等领域，如工作地板、楼梯踏板、沟盖等。

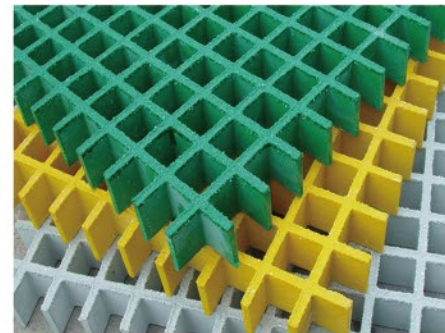
网眼尺寸：25\*25\*25、38\*38\*38、50\*50\*50

单板标准尺寸：1220\*3660或定制

FRP/GRP grating use high strength fiberglass roving as reinforcing material, together with unsaturated polyester resin, be widely used in the power generation, sewage treatment, oil refining and oceanographic survey fields as work floors, stair treads, and trench covers etc.

Mesh size: 25\*25\*25, 38\* 38\*38, 50\*50\*50

Standard size of one panel: 1220\*3660 or customized



## F 玻璃纤维筋 RP REBAR



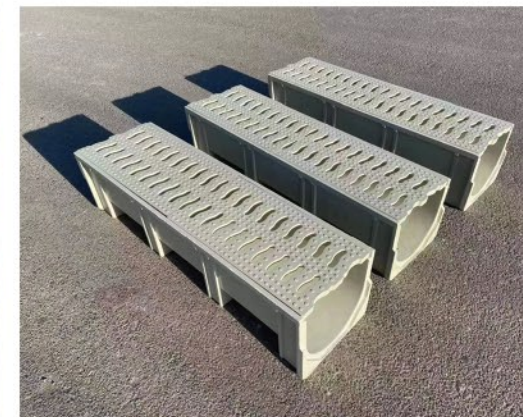
玻璃纤维增强筋由高性能树脂材料(UPR、VER、EP、PU)与高强度纤维(GF、BF、CF) 通过拉挤工艺复合而成，具有比重轻、高强度、耐腐蚀、易切割等特性。

FRP Rebar is made of high-performance resin(UPR, VER, EP, PU ...type) compounded with high-strength fibers (GF, BF, CF... type), through a pultrusion process. Its features are light weight, high strength, corrosion resistance, and easy cutting.

## M 模压制品 MOLDED PRODUCTS



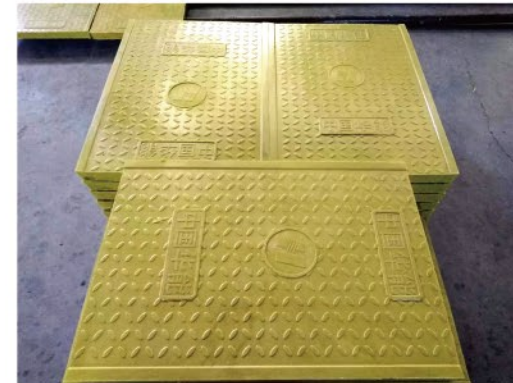
模压井盖 SMC & BMC manhole cover



模压水渠 MOLDED CANAL



模压洗漱盆 MODEL RINSING BASIN



模压检修井盖 MOLDED MANHOLE COVER



玻璃钢污水池盖板 FRP SEWAGE TANK COVER PLATE

### 玻璃钢风机 FRP FAN

奥联德公司生产各种型号的离心风机、轴流风机、屋顶风机、斜流风机、排烟风机、隧道风机、球型风帽、风机箱等系列风机产品。

其特点: 效率高、噪音低、能耗少、防腐耐用及维修方便等。广泛用于宾馆、办公楼、商场、实验室、医院、展览馆、隧道、热电厂、工厂等建筑的通风系统。

Aoliande produces a series of fan products including various models of centrifugal fans, axial fans, roof fans, diagonal fans, smoke exhaust fans, tunnel fans, spherical ventilating cowl, and cabinet fans.

Its characteristics: high efficiency, low noise, low energy consumption, corrosion resistance, durability, and convenient maintenance. Widely used as a ventilation system in hotels, office buildings, shopping malls, laboratories, hospitals, exhibition halls, tunnels, thermal power plants, factories etc. other buildings.



## 整体卫浴 INTEGRATED BATHROOM

整体卫浴也叫做整体卫浴、整体卫生间。区别于传统浴室，整体浴室是工厂化一次性成型，小巧，精致，功能俱全，节省卫生间面积，而且免用浴霸，非常干净，有利于清洁卫生。整体卫浴作为实现完美浴室的重要路径，得到了众多消费者的青睐。

主要特点：洁净干爽、超强耐用、整体成型、隔热保温、环保安全、干法施工。

奥联德整体卫浴现已开发出五大系列上百款预制式整体卫浴产品且还可以根据客户要求定制。

Integrated bathroom, also known as integrated washing room. Different from traditional bathrooms, the integrated bathroom is factory made and one-time formed, compact, exquisite, and fully functional, saving space. It even don't need a bathroom heater, very easy to clean. The integrated bathroom has been favored by many consumers, getting more and more popular.

Main features: clean and dry, super durable, integral molding, thermal insulation, environmental protection and safety, dry construction.

ALD Integrated Bathroom has developed over a hundred different types of prefabricated integrated bathroom products in five major series, and can also be customized according to special requirements.



## 玻璃纤维筋生产设备 FRP REBAR EQUIPMENT

我公司自主研发的玻璃纤维筋设备耗能低，产品质量稳定，支持全螺纹玻璃钢锚杆，玻璃纤维筋的生产，同时我公司负责玻璃纤维筋设备的安装与调试以及后期的技术服务！

The FRP Rebar manufacture equipment is developed by our own. It is low energy consumption and give stable product quality, can produce fully threaded fiberglass anchor rods and fiberglass rebar. We can supply the Rebar manufacture equipment and also is responsible for the installation and commissioning, as well as technical services in the later stage!



## 拉挤型材生产设备 FRP PULTRUSION MACHINE

玻璃钢拉挤设备主要用于拉挤各种玻璃钢拉挤型材，特别适用于拉挤大截面的玻璃钢电缆桥架，玻璃钢电缆保护管，玻璃钢工字钢，玻璃钢高速护栏等玻璃钢拉挤制品。

根据用户的要求可配置各种档次、规格、型号不同的玻璃钢拉挤生产线。

Fiberglass pultrusion equipment is mainly used for manufacture various of fiberglass pultrusion profiles, especially suitable for manufacture large cross-section FRP cable trays, cable protection pipes, fiberglass I-beams, FRP guardrails for highway and other products.

According to user requirements, various grades, specifications, and models of fiberglass pultrusion production lines can be configured.



## 玻璃钢管道生产线 FRP PIPE PRODUCTION LINE

玻璃钢管道生产线由制衬机、微机控制加砂浆缠绕机、固化站、修整机、脱模机、树脂搅拌站等六部分组成。

奥联德玻璃钢管道生产线具有反应速度快、抗干扰能力强、使用方便、调整方便、组装灵活、一机多用的特点。

其中微机控制缠绕机只需将产品参数输入进去，微机即可自动完成产品缠绕线型的设计，然后控制模具与小车行走的往复运动，具有定位精度高、抗干扰能力强、生产效率高的特点，深受国内外业界同仁的青睐。

直径范围：DN15-DN4000MM

长度：2米、4米、6米、12米

FRP/GRP pipe Production Line has six parts, such as inner layer manufacturing machine, computer control adding mortar filament winding machine, curing station, trimming machine, de-molding machine and resin mix station.

ALD FRP pipe production line has the characteristics of fast response, strong anti-interference ability, easy use, convenient adjustment, flexible assembly, and one machine with multiple functions.

Among them, the computer-controlled filament winding machine only needs to input the product parameters, and the computer can automatically complete the design of the filament winding structure of product, and then control the reciprocating motion of the mold and the trolley. It has the characteristics of high positioning accuracy, strong anti-interference ability, and high production efficiency. Deeply favored by colleagues in the industry at home and abroad.

Diameter range: DN15- DN4000mm

Length: 2m, 4m, 6m, 12m



玻璃钢管道缠绕机 FRP PIPE FILAMENT WINDING MACHINE



玻璃钢管道制衬机 FRP PIPE LINING MACHINE



玻璃钢管道水压试验机 FRP PIPE HYDRAULIC PRESSURE TESTER



## 玻璃钢储罐生产线 FRP TANK PRODUCTION LINE

可生产的直径范围：DN600-DN25000MM

缠绕角度：45° <math>a < 90^\circ</math>

长度：取决于客户的要求

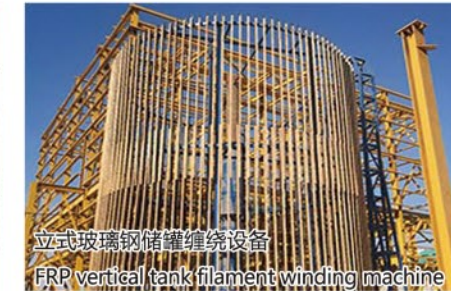
Diameter range can be produced: DN600- DN25000mm

Winding angle: 45° <math>a < 90^\circ</math>

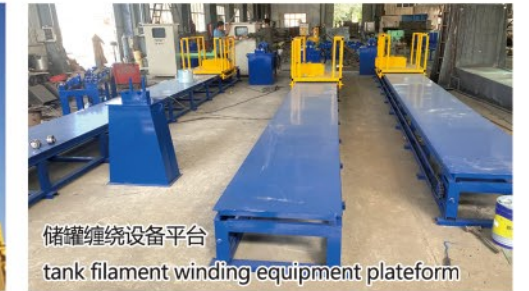
Length: depends on clients' requirements



立式玻璃钢储罐设备  
FRP vertical tank filament winding machine



立式玻璃钢储罐缠绕设备  
FRP vertical tank filament winding machine



储罐缠绕设备平台  
tank filament winding equipment platform



卧式玻璃钢储罐缠绕设备 FRP horizontal tank filament winding machine



玻璃钢喷枪设备 FRP spray gun equipment



玻璃钢缠绕设备控制柜  
FRP filament winding machine control cabinet



玻璃钢储罐模具设备  
FRP storage tank mould equipment



立式玻璃钢储罐缠绕设备  
FRP vertical tank filament winding equipment

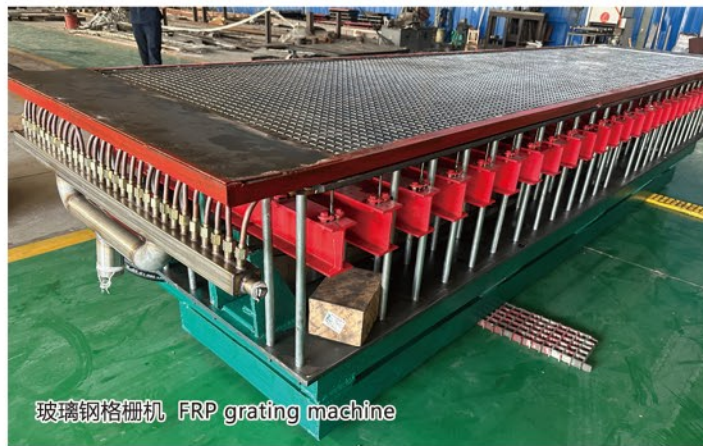
## 玻璃钢模压生产设备 FRP MOLDED MACHINE

广泛用于生产玻璃钢化粪池、玻璃钢井盖、玻璃钢SMC水箱、电缆支架、电表箱等。

Be widely used for production of FRP septic tank, FRP manhole cover, FRP SMC water tank, cable support, meter box etc.



## 玻璃钢格栅生产设备 FRP GRATING EQUIPMENT



## 成套硫酸钾生产设备 POTASSIUM SULFATE PRODUCTION EQUIPMENT



中央控制系统  
Central control system



曼海姆炉 Mannheim furnace



HCL 吸收系统  
HCL absorption system



造粒机 Comminutor



冷却水系统  
Cooling water system



炉内件 Furnace inner parts

## 客户来访 CUSTOMER VISITS

