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股权代码  
EQUITY CODE

300486



### 山东旭日东环保股份有限公司

SHANDONG XURIDONG ENVIRONMENTAL PROTECTION CO., LTD.

### 山东旭日东机械有限公司

SHANDONG XURIDONG MACHINERY CO., LTD.

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网站二维码



公众号二维码

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The second office of Guangdong Province:  
Leping Town, Foshan City.  
Zhejiang office: South bus station, Fuyang City.  
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Xinjiang office: No.108, Youpeng Street, New Urban Area, Urumqi City.

# 旭日东环保

## XURIDONG

### ENVIRONMENTAL PROTECTION

- 一体化污水处理设备
- 气浮设备
- 刮吸泥设备
- 污泥干化设备
- 空气异味处理系统
- Integrated sewage treatment equipment
- Air floatation equipment
- Sludge scraping and sludge suction equipment
- Sludge dewatering equipment
- Atmospheric odor treatment system

### 山东旭日东环保股份有限公司

SHANDONG XURIDONG ENVIRONMENTAL PROTECTION CO., LTD.

### 山东旭日东机械有限公司

SHANDONG XURIDONG MACHINERY CO., LTD.

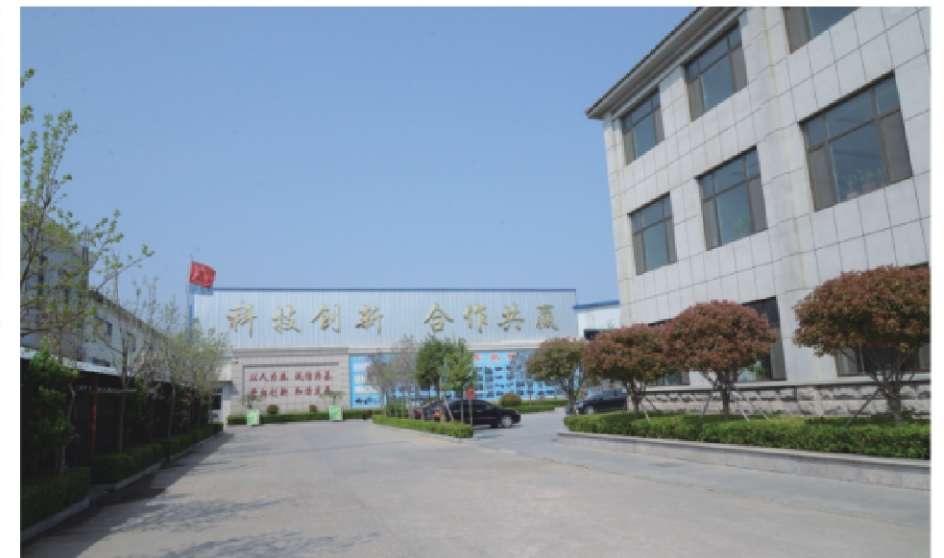
### 旭日东环保（越南）有限公司

XURIDONG ENVIRONMENTAL PROTECTION (VIETNAM) CO., LTD.

### 旭日东机械有限公司西北分公司

XURIDONG MACHINERY CO., LTD. NORTHWEST BRANCH OFFICE





## Company Profile

### 企业简介



公司VR实景  
VR reality of the company

山东旭日东环保股份有限公司（简称：旭日东环保，股权代码：300486）是一家生产环保设备，承接环保工程的国家级高新技术企业，专注于污水处理、废气处理、中水回用、餐厨垃圾、污泥脱水设备的生产和研发。公司集科研开发、生产制造、工程总包、技术服务于一体，所有环保设备均由自己设计、生产，致力于高效利用资源、维护生态平衡、净化自然环境等环保事业。

公司以技术创新为核心，以提高客户满意度为目标，为提高产能和扩大实验基地，在山东诸城高新园区新建6万平新厂区，汇集了大量的专业人才，具有先进的理论指导和丰富的实践经验。公司与多所高校和设计院联手合作，不断研制新项目 and 开发新产品。通过了ISO9001质量管理体系认证、环境管理体系认证和职业健康安全管理体系认证，公司具有环保工程专业承包叁级资质，拥有发明专利等56项。公司的核心业务主要有：生产各种环保设备及配套设施；主要涉及生活污水、城市污水治理、生活垃圾处理；工业污水处理、工业垃圾处理，制浆造纸废水治理、印染废水治理、淀粉污水处理、医疗废水处理、矿山废水治理等等。

公司拥有进出口经营权，并通过了欧盟CE认证，美国的UL认证和国际SGS认证，已承接众多国内外大型环保工程，环保设备销往全国各地以及美国、欧洲、东南亚、中东、非洲等诸多国家和地区，在国际市场上树立了良好的企业形象。

Shandong Xuridong Environmental Protection Co., Ltd. (hereinafter referred to as Xuridong Environmental Protection, stock code: 300486) is a high-tech enterprise that produces environmental protection equipment and undertakes environmental protection projects, focusing on the production and research and development of sewage treatment, waste gas treatment, reclaimed water reuse, kitchen waste and sludge dewatering equipment.

The company integrates scientific research and development, manufacturing, engineering general contracting and technical services. All environmental protection equipment is designed and produced by itself, and it is committed to environmental protection undertakings such as efficient use of resources, maintenance of ecological balance and purification of natural environment. Focusing on technological innovation, aiming at improving customer satisfaction, in order to increase production capacity and expand the experimental base, the company has built a new 60,000-square-meter factory in Zhucheng High-tech Park, Shandong Province, bringing together a large number of professionals with advanced theoretical guidance and rich practical experience. The company cooperates with many universities and design institutes to continuously develop new projects and new products. It has passed the ISO9001 quality management system certification, environmental management system certification and occupational health system certification. The company has the third-level qualification of environmental engineering professional contracting and has 56 invention patents. The core business of the company mainly includes: producing all kinds of environmental protection equipment and supporting facilities; Domestic sewage, urban sewage treatment and domestic garbage treatment; Industrial sewage treatment, industrial waste treatment, pulp and paper wastewater treatment, printing and dyeing wastewater treatment, starch wastewater treatment, medical wastewater treatment, mine wastewater treatment and so on.

The company has the right to operate import and export, and has passed the CE certification of the European Union, UL certification of the United States and SGS certification of the world. It has undertaken many environmental protection projects at home and abroad, and its environmental protection equipment has been sold to all parts of the country, the United States, Europe, Southeast Asia, the Middle East, Africa and many other countries and regions, and has established a good corporate image in the international market.



旭日东机械有限公司西北分公司  
XURIDONG MACHINERY CO.,LTD. NORTHWEST BRANCH OFFICE



旭日东环保（越南）有限公司  
XURIDONG ENVIRONMENTAL PROTECTION(VIETNAM) CO.,LTD.



## 核心团队 CORE TEAM

二十多年来，旭日东迈着铿锵的步伐一路走来，依靠技术创新和进步在环境工程行业拥有了自己的核心竞争力，也确立了自己行业中的重要地位。公司一项项创新成果来自于整个团队的追求和智慧。近年来旭日东团队建设从实际出发，立足各部门各岗位，从最基本的班组建设入手。以培养员工职业技能、素养和团结协作精神为目标，以岗位创新、培训学习和有效激励为手段，着力打造具有强烈战斗力的研发团队、中层管理团队和青年技工团队。在公司的生产车间，一个个班组你追我赶，比技能、比协作、比质量、比业绩的氛围非常浓烈，为旭日东的飞速发展奠定了基础。



研发中心  
R & D center



化验室  
Laboratory

## 国外客户 FOREIGN CUSTOMERS



越南客户来公司考察订货  
Vietnam customers to the company inspection orders



乌兹别克斯坦客户来公司考察订货  
Uzbekistan customers to the company inspection orders



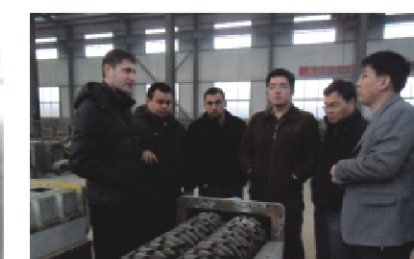
俄罗斯客户来公司考察订货  
The Russian customers to the company inspection order



西班牙客户来公司考察订货  
The Spanish customers to the company inspection orders



尼泊尔客户来公司考察订货  
Nepal customers to the company inspection orders



乌兹别克斯坦客户来公司考察订货  
Uzbekistan customers to the company inspection orders



西班牙客户来公司考察订货  
The Spanish customers to the company inspection orders



越南客户来公司考察订货  
Vietnam customers to the company inspection orders



迪拜客户来公司考察订货  
Dubai customers to the company inspection orders



2022年各办事处销售员工  
2022 the office sales staff

More than a twenty years, the pace of xuridong walked sonorous along the way, rely on innovation and technological progress in the environmental protection equipment industry has its own core competitiveness, and also established an important position in the industry. A key innovation from the team pursuit and wisdom. In recent years xuridong team building, proceed from reality, based on the different positions of the various departments, starting from the most basic team building. To train employees vocational skills, literacy and the spirit of unity and cooperation as the goal, as a means to post innovation, training, learning and effective incentives, r & d team focused on creating a strong combat effectiveness, the middle management team and the young mechanic team.in the company's production plant, one a team starting a skills than collaboration, than the quality of performance of the atmosphere is very thick, and laid the foundation for the rapid development in xuridong.



业务培训  
Business training



优秀员工剪影  
Outstanding employees silhouette



# 企业资质 COMPANY QUALIFICATION





## 生产实力 PRODUCTION STRENGTH

作为国内领先的环保装备生产企业，旭日东懂得用精良的设备制造品质精湛的产品，在拥有行业先进的生产装备及高精度的产品检测系统基础上，引进国际顶尖的新产品、技术科研设备，确保产品高品质，零缺陷。用人性化、科学化、集约化的管理模式及精良的工艺装备保障、完善企业的运转，并发展壮大，继续巩固旭日东在同行业中的优势，提升客户对旭日东的满意度。在先进的专业技术基础和标准化体系作为技术保证的前提下，创造出了“高速度、高效率、高品质”的环保设备规模化大生产的模式。公司产品制造精良、生产周期短，产品多元，成为一站式环保设备集成商。

As a leading environmental protection equipment manufacturing enterprises, Xuridong know how to use the most sophisticated equipment to create the most exquisite products in the product testing system based on the industry's most advanced production equipment and precision, the introduction of top international new product development, technology and research equipment to ensure product quality, zero defect, the most humane, scientific, intensive management model and the sophisticated technology and equipment to protect, improve the functioning of the enterprise, and grow from continuing operations and realize the value of multiplying to continue to consolidate strengths of Xuridong in the industry, enhance the continued satisfaction of customers Xuridong. Advanced professional technology base and standardization system as the technology to ensure the premise to create a "high-speed, high efficiency, large-scale production model of" high quality "environmental protection equipment. The company's products, fine workmanship, short production cycle, and second to none in the industry.





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## 拦污设备 TRASH EQUIPMENT

## XGS系列机械格栅除污机 XGS SERIES MECHANICAL BAR SCREEN

专利号(Patent No.)  
202122282976.0



XGS机械格栅除污机是一种可以连续自动拦截并清除流体中各种形状杂物的水处理专用设备，广泛的应用于城市污水处理、自来水行业、电厂进水口，同时也可以作为纺织、食品加工、造纸、皮革等行业生产工艺中必不可少的专用设备，是目前我国较先进的固液分离设备。常见的格栅有：反捞式格栅、弧形格栅、钢丝绳格栅、雨水格栅、网篮式格栅、阶梯式格栅。

XGS series mechanical bar screen is one kind of successive and automatic specialized machine to purge away all kinds of dirty in water, it can use for the city sewage and running water, electricity inlet, meanwhile, that is the essential machine used in the texture, foodstuff, papermaking and leather.

Common grilles include: fishback grilles, arc grilles, wire rope grilles, rainwater grilles, grate grilles, and stepped grilles.



钢丝绳格栅  
WIRE ROPE GRILLE

型号 Model	XGS3	XGS4	XGS5	XGS6	XGS7	XGS8	XGS9	XGS10	XGS11	XGS12	XGS13	XGS15
安装角度 Installing Angle	60°-80°											
动力(kw) Power	0.37		0.55		0.75			1.1				1.5
转速(r/min) Speed	2											
栅隙(mm) Gate Gap	1-30											
渠宽(mm) Channel Width	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600
渠深(mm) Channel Depth	1000-12000mm用户自选 User optional											
设备宽(mm) Machine Width	300	400	500	600	700	800	900	1000	1100	1200	1300	1500
介质温度(°C) Media Temperature	≤80											
卸料高度(mm) Material Unloading Height	400-1000用户自选 User optional											

## XNGS系列内进流格栅 XNGS SERIES INTERNAL INLET GRILLE



### 用途与简介 USES AND PROFILES

内进流式网板格栅除污机是用来拦截并排除供、排水系统中较小的悬浮及颗粒杂质，对经过粗格栅处理后的水源中的污物进一步进行清除。设备结构紧凑，占地少，安装方便，易操作。考虑设备的养护、维修及延长使用寿命，水下不设传动件，可避免不必要的机械故障。

The internal flow screen grille cleaning machine is used to intercept and exclude smaller suspended and particulate impurities in the water supply and drainage system, and further remove the dirt in the water after rough grid treatment. The utility model has the advantages of compact structure, little occupation, convenient installation and easy operation. Considering the maintenance, maintenance and extended service life of the equipment, there is no transmission part under the water, so as to avoid unnecessary mechanical trouble.

型号 Model	XNGS1000	XNGS1200	XNGS1500	XNGS2000
筛网宽度(mm) Filter screen width	1000	1200	1500	2000
安装角度(°) Installation angle	90°			
链板节距(mm) Chain plate pitch	200			
适用渠道深度(m) Channel width	1-5			
网孔净尺寸(mm) Mesh hole size	可按需要调整			
过网流速(m/s) Flow speed	<0.6			
允许水位差(mm) Water level tolerance	200			
筛网上行速度(m/min) Rotary speed	36-50			
电机功率(kw) Power	0.55-1.5			
冲洗水压(MPa) Washing water pressure	≥0.6			
冲洗水量(m³/h) Washing water quantity	12	14	17	24

注:

- 1、以上设备型号、宽度仅为一个参考，实际型号、宽度以毫米为单位增加或减少。
- 2、设备型号根据过水量、固液分离总量、所分离杂物的颗粒大小来选型，同时选配不同的网孔直径。
- 3、特殊规格另行设计。

Note:

1. The type and width of the equipment mentioned above shall be only one reference. The actual model and width shall be increased or reduced in millimeters.
2. equipment type according to the amount of water, the total separation of solid and liquid, the size of the separation of debris to choose, and choose different mesh diameter.
3. special specifications shall be designed separately.





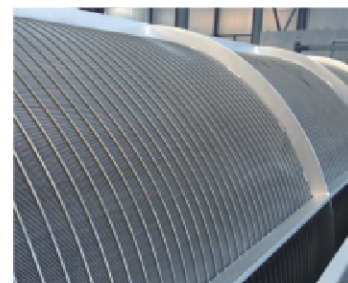
## XWNX型旋转细格栅（旋转过滤除污机） XWNX ROTATING FINE BARSCREEN (ROTATING FILTER)

专利号(Patent No.)  
201721557573.X



XWNX旋转细格栅是一种能连续而有效地筛除水中固体悬浮物的设备。该机结构紧凑，占地面积小，能连续自动地排除污物，而且有多种间隙可供选择。该机适用于工业废水及生活污水中固体悬浮颗粒、纤维、酒糟等污物的分离。该机滤网选用了倒梯形断面的不锈钢过滤筒，增强了滤网的抗腐蚀能力，加上完整的自清理系统，保证了滤网不被污物堵塞。

XWNX rotating fine barscreen is a continuous and effective remove suspended solids in water equipment. The machine structure is compact, small footprint, can continuously and automatically remove dirt, but also a variety of space available. This machine is suitable for the separation of industrial wastewater and domestic sewage in the suspended solid particles, fibers, distiller's grains and dirt. The machine filter selected stainless steel filter cylinder inverted trapezoid section, enhanced the corrosion resistance of the screen, with the self clean system complete, the filter is not blocked by



型号 Model	XWNX1	XWNX2	XWNX3	XWNX4	XWNX5	XWNX6
过滤面积 (m²) Filter Area	5	7	9	11	14	20
过滤网目 (目) Filter Net Hole	60-225	60-250	60-250	60-250	60-250	60-250
过滤能力 (t/h) Filter Ability	50-100	80-150	100-200	120-240	150-300	170-380
滤筒转速 (r/min) Filter Speed	4-6	4-6	4-6	4-6	4-6	4-6
冲洗水压力 (MPa) Water Pressure	0.3	0.3	0.3	0.3	0.3	0.3
电机功率 (KW) Motor Power	1.1	1.5	1.5	2.2	2.2	2.2
滤筒直径 (mm) Filter Diameter	Φ1000	Φ1250	Φ1250	Φ1500	Φ1500	Φ1500
滤筒长度 (mm) Filter Tank Length	1500	2000	2500	3000	3500	4000
SS去除率 70-80%		SS Removal Rate: 70-80%				

## XWN系列固液分离机 XWN SERIES SOLID-LIQUID SEPARATOR

专利号(Patent No.)  
201320475935.6



XWN系列固液分离机采用15-20微米孔隙过滤工艺，微孔过滤是一种机械过滤的方法。它适用于把液体中存在的微小悬浮物质（纸浆纤维）最大限度的分离出来，实现固、液分离的目的，广泛应用于造纸、纺织、印染、化工、食品等污水的过滤，尤其适用于造纸白水的处理，达到封闭循环、重复使用的目的。

The machines adopt 15-20 micron holes to filter, a mechanical filtration. They can separate the tiny suspended material from the liquid as far as possible, and make sure the solid and liquid are individual completely. They are used widely in the occasions, such as paper making, textile, printing and dyeing, chemical industry, food industry. Especially for the clear water treatment, so it can be used canned cycle, repeatedly.



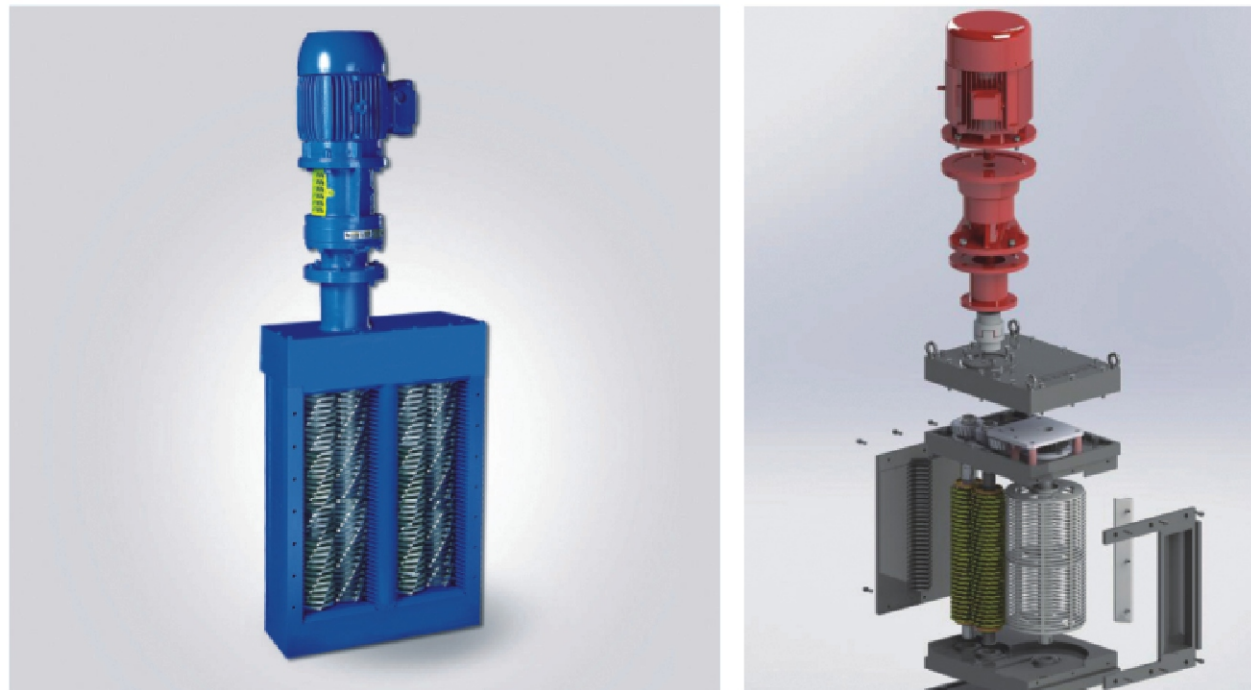
型号 Model	XWN1	XWN2	XWN3	XWN4	XWN5	XWN6	XWN6-1	XWN7	XWN8
过滤面积(m²)Filter Area	5	7	9	11	14	16	20	24	30
网目 Mesh	60-250	60-250	60-250	60-250	60-250	60-250	60-250	60-250	60-250
处理水量(m³/h)Water Treatment	50-100	80-150	100-200	120-240	150-300	170-300	200-350	240-400	300-500
电机功率(kW)Power Of Motor	1.1	1.1	1.5	2.2	3	4	5.5	5.5	7.5
滤筒直径(mm)Filter Diameter	Φ950	Φ1250	Φ1250	Φ1500	Φ1500	Φ1500	Φ1500	Φ1780	Φ1780
滤筒有效长度(mm)Filter Effective Length	1680	1800	2300	2370	2870	3370	4150	4300	5500





## 拦污设备 TRASH EQUIPMENT

## XFGS型粉碎格栅 XFGS CRUSHING GRILLE



### 用途与简介 USES AND PROFILES

粉碎型格栅是一种国外引进到的除污粉碎设备，主要用于市政污水处理工程。其能把污水中的悬浮物和漂浮垃圾粉碎成8-12mm的细小颗粒，粉碎后的污物随水流走，无须打捞，不会堵塞水泵。相比常规的机械格栅及人工格栅而言运行管理成本更低，自动化程度更高，对周围环境影响更小。

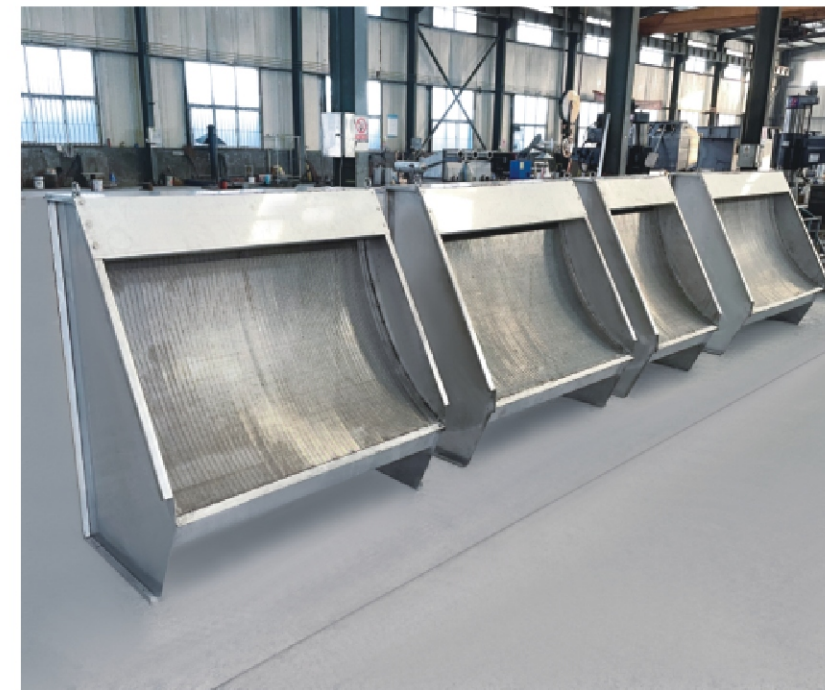
粉碎型格栅一般安装在泵站的进水口，将通过的垃圾粉碎成细小颗粒，有效的保护后续水泵的顺利运转，提高了泵送的效率，相比传统的人工格栅、齿耙式格栅等节省了人工打捞转运过程，降低了运行成本。

The crushed grille is a kind of decontamination and grinding equipment imported from abroad, which is mainly used in municipal wastewater treatment projects. The utility model can make the suspended substance and the floating garbage in the sewage be pulverized into small particles of 8-12mm, and the dirt after the crushing goes with the water, and the utility model does not need to be salvaged, and the water pump can not be blocked. Compared with the conventional mechanical grille and artificial grille, the operation management cost is lower, the automation degree is higher, and the influence on the surrounding environment is smaller. Comminutor is usually installed in the pump inlet, will smash through garbage into small particles, the smooth functioning of the effective protection of the subsequent water pump, improve the pumping efficiency, compared with the traditional artificial tooth rake grille grille, saving artificial fishing transport processes, reduce operating costs.

### 应用领域 APPLICATION AREA

- |                      |   |
|----------------------|---|
| 1、应用于埋地式泵站，进水管网等；    | 1, applied to buried pump station, water inlet pipe network and so on;            |
| 2、与传统格栅配合使用，进行垃圾处理；  | 2, with the traditional grille used for garbage treatment;                        |
| 3、应用于沉淀池、消化池、污泥脱水系统； | 3. It is used in sedimentation tank, digestion tank and sludge dewatering system; |
| 4、污水收集系统；            | 4 sewage collection system;   |
| 5、取水工程入水口过滤；         | 5, water intake project filtration;   |
| 6、引水渠入口工程。           | 6, diversion channel entrance works.  |

## XSGS系列水力式格栅 XSGS SERIES HYDRAULIC GRILLE



### 工作原理 WORKING PRINCIPLE

水力格栅是利用外接水泵将需处理的污水输送至进料箱，然后均匀地分配至栅网上，依靠水流的离心力和重力的综合作用，在与栅网作相对剪切运动时，固型物被截留，从而达到分离固型物和液体的目的。同时网上聚集的固型物借助流体滚动下落，液体不断冲刷清洗栅网，使其起到自净作用，从而完成格栅连续自净和固形物不断收集的全过程。

Hydraulic grille is the use of an external pump will be transported to the sewage feed box, and then evenly distributed to the grid, relying on the comprehensive effect of the flow of the centrifugal force and the gravity in the grid and relative shearing movement when solids are trapped, in order to achieve the separation of solids and liquid to. At the same time, the solid objects collected on the network roll down with the aid of fluid, and the liquid continuously washes and washes the grid so as to play a self purification function so as to complete the continuous collection of the continuous self purification of the grid and solid matter.

### 设备特点 EQUIPMENT FEATURE

- |                         |   |
|-------------------------|---|
| 1. 设备运行无动力消耗，连续稳定。      | 1. equipment running without power consumption, continuous stability. |
| 2. 栅网采用不锈钢特殊栅网，不堵塞、不锈蚀。 | 2. grid with stainless steel special grid, no clogging, no rust.      |
| 3. 安装形式简单，操作方便。         | 3. the installation form is simple and easy to operate.               |
| 4. 适用范围广，占地面积小。         | 4. a wide range of applications, small footprint.                     |

### 安装及调试 INSTALLATION AND COMMISSIONING

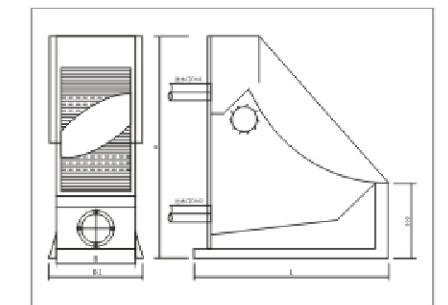
将设备吊起后，安放在基础上，用地脚螺栓固定。然后将进水管、出水管与设备连接。通水后，检查水流情况，正常后，固定调整螺栓，即可投入使用。

After lifting the equipment, place it on the foundation and fix it with anchor bolts. Then the water inlet pipe and outlet pipe are connected with the equipment. After the water is checked, the water flow is checked. After the normal condition, the adjusting bolt is fixed and can be put into use.

### 用途与简介 USES AND PROFILES

该设备用于清除污水中细小的颗粒，达到固液分离及原料回收的目的。广泛用于食品、纺织、印染、造纸、化工、医药、木材加工、养殖等各个行业。另外还适用于矿石及陶瓷原料的分选工作。

The equipment is used to clean small particles in sewage to achieve solid-liquid separation and recovery of raw materials. Widely used in food, textile, printing and dyeing, paper making, chemical, pharmaceutical, wood processing, aquaculture and other industries. The utility model is also suitable for the sorting of ore and ceramic raw materials.







## 气浮设备

AIR FLOATATION EQUIPMENT

## XQF系列浅层气浮机

### XQF SERIES CIRCULAR DISSOLVED AIR FLOTATION MACHINE

专利号(Patent No.)  
201320475932.2

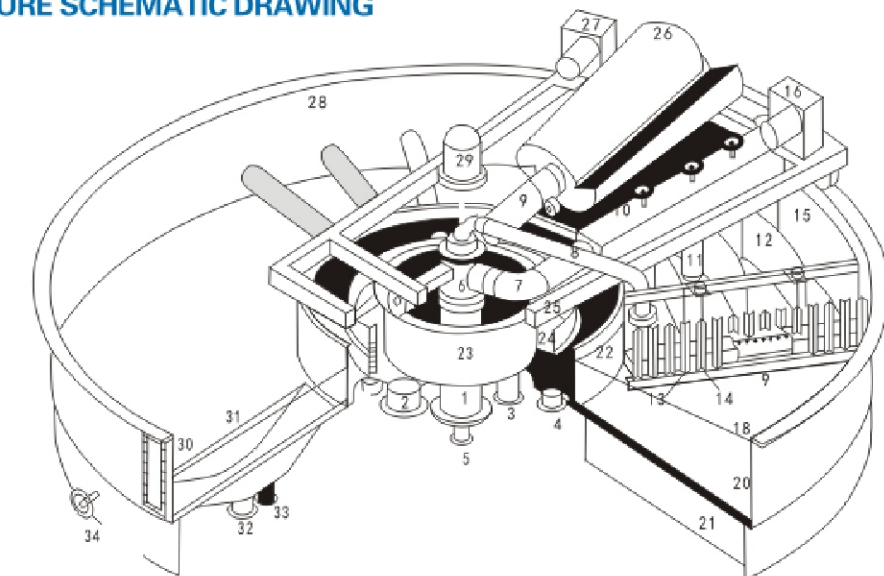


- ◎有效水深较浅，为600-750mm。
- ◎池内水力停留时间短5-10min。
- ◎净化量大，即表面负荷高。
- ◎占地面积小，单位负荷轻。
- ◎净化程度高，藻类等悬浮物去除率达90%以上，浓缩后污泥浓度达35%。
- ◎ Effective depth is shallow, 600-750mm.
- ◎ Pool short hydraulic retention time 5-10min.
- ◎ The purification capacity, namely high surface load.
- ◎ Covers an area of small, light load of unit.
- ◎ A high degree of purification, algae and other suspended solids removal rate reached more than 90%, concentrated sludge concentration up to 35%.



### 结构示意图

#### STRUCTURE SCHEMATIC DRAWING



- |           |           |             |                                       |                                    |
|-----------|-----------|-------------|---------------------------------------|------------------------------------|
| 1. 原水进口   | 12. 分水板   | 23. 浮渣罐     | 1. waste water entrance               | 18. pool edge                      |
| 2. 清水出口   | 13. 稳流装置  | 24. 溢流堰     | 2. fresh water exit                   | 19. scum hopper exit               |
| 3. 浮渣出口   | 14. 池底刮板  | 25. 行走架     | 3. scum exit                          | 20. pool wall                      |
| 4. 回流水出口  | 15. 分水外侧板 | 26. 浮渣收集斗   | 4. flowback water exit                | 21. strengthening rig              |
| 5. 回流水进口  | 16. 驱动装置  | 27. 浮渣斗驱动装置 | 5. flowback water entrance            | 22. choke                          |
| 6. 旋转进水管  | 17. 驱动轮   | 28. 清水收集管   | 6. revolving water entering pipe      | 23. scum tank                      |
| 7. 柔性接头   | 18. 池沿    | 29. 集电装置    | 7. flexible joint                     | 24. overflow weir                  |
| 8. 加压水管   | 19. 浮渣斗出口 | 30. 观察窗     | 8. pressurized water pipe             | 25. moving frame                   |
| 9. 旋转布水机构 | 20. 池壁    | 31. 池底泥斗    | 9. rotating water distributor         | 26. scum collective hopper         |
| 10. 布水管   | 21. 池底加强筋 | 32. 排空管出口   | 10. water distributor                 | 27. driving device for scum hopper |
| 11. 布水管出口 | 22. 隔流圈   | 33. 排泥管出口   | 11. water distributor entrance        | 28. fresh water collective pipe    |
|           |           |             | 12. water separating board            | 29. electricity collective device  |
|           |           |             | 13. steady device                     | 30. observing window               |
|           |           |             | 14. pool bottom scraper               | 31. sludge hopper under water      |
|           |           |             | 15. outside board of water separating | 32. drainage pipe exit             |
|           |           |             | 16. driving device                    | 33. sludge discharging exit        |
|           |           |             | 17. driving wheel                     | 34. water line controlling wheel   |

### 概况

#### SURVEY

新型高效浅层气浮机，是我公司根据国外新技术，并结合我国污水处理系统的实际情况，通过近十年的不断试验、使用、改进而成的，新型高效浅层气浮机与传统气浮机相比，改静态进水——静态出水为动态进水——静态出水，使悬浮物(SS)在相对静止的环境中垂直浮在水面上，污水在净化池内仅需2-3min，处理效率极高。用途：1、应用于以湖泊水为水源的自来水厂，除藻降浊处理；2、应用于如石油化工、纺织、印染食品工业等领域的污水处理工程；3、应用于工业污水中有用物质的回收利用，如：造纸、浆水中的纤维回收等领域。

New type and high efficiency air flotation machine is our newest machine that absorbs new technology of overseas and combines with practise of waste water treatment of our country, that is through decades of practise and trial and improvement. With a comparison with the old type air flotation machine ,change the entering water of motionless state--releasing water of motionless state into "entering water of moving state--releasing water of motionless state" in this way the suspending matter (ss) can float vertically on the surface of the water so waste water can stay in the purifying pool for 2-3 minutes to get a high efficiency of processing. TUses: 1. Used in waterworks that use lake water as their water source for algae removal and turbidity reduction treatment; 2. Applied to wastewater treatment projects in fields such as petrochemical, textile, printing, dyeing, and food industries; 3. It is applied to the recovery and utilization of useful substances in industrial wastewater, such as papermaking, fiber recovery in pulp water, and other fields.

型号/Model	XQF30	XQF50	XQF75	XQF100	XQF150	XQF200	XQF250	XQF300	XQF400	XQF450	XQF500	XQF600
池径/mm/pool size	Φ3000	Φ4000	Φ5000	Φ6000	Φ7000	Φ8000	Φ9000	Φ10000	Φ11000	Φ12000	Φ13000	Φ14000
处理量/(m³/h)/productivity	30-40	50-60	75-100	100-130	150-200	200-300	250-350	300-400	400-500	450-600	500-700	700-800
主机总功率/(kW) host total power	1.5	2.2	2.2	3.3	3.3	3.3	5.2	6.2	6.2	6.2	6.2	6.2
工作负荷/(t) working load	8	14	20	25	35	40	45	57	68	81	81	110
配套溶气系统功率/(kW) & sparging system of soluble power	3	4	5.5	11	15	18.5	22	37	45	55	75	90





## XRWF- II 系列溶气气浮机(平流式) XRWF- II SERIES FLOATING MACHINE (HORIZONTAL TYPE)

专利号(Patent No.)  
201320475910.6



溶气气浮技术近年来广泛应用于给排水及废水处理中，它可以有效地去除废水中难以沉淀的轻浮絮体。处理能力强、效率高、占地少、使用范围广。被广泛应用于石油、化工、印染、造纸、炼油、皮革、钢铁、机械加工、淀粉、食品等污水处理。

The technology of dissolved air can be extensively used water supplying and releasing and the waste water processing. it can remove effectively undeposited matter with a big capacity and high efficiency, less land and widely used range. this machine is very suitable to the water processing from petroleum, chemical, papermaking, leather, printing. food and starch industry.

型号 Model	处理能力m³/h Productivity	溶气水量m³/h Water volume	主电机功率Kw Power	刮泥机功率Kw Boat for machine power	空压机功率kW Air compressor power	空压机型号 Air compressor model	清水泵型号 Clear water pump model	溶气罐规格mm Air floatation pot specification	箱体尺寸mm Body dimensions
XRWF- II -5	4-5	1.5-2	3	0.75	1.5	V-0.17/7	1 1/2 GC-25-1	Φ273 × 1512	3200 × 1250 × 1500
XRWF- II -10	8-10	2-3	3	0.75	1.5	V-0.17/7	1 1/2 GC-5 × 2	Φ273 × 1512	3530 × 1250 × 1500
XRWF- II -15	10-16	3-4	3	0.75	1.5	V-0.17/7	1 1/2 GC-5 × 2	Φ325 × 1512	3530 × 1500 × 1500
XRWF- II -20	15-20	5-7	7.5	1.1	1.5	V-0.17/7	2 GC-5 × 2	Φ325 × 1512	4000 × 1250 × 1500
XRWF- II -30	20-30	6-10	7.5	1.1	1.5	V-0.17/7	2 1/2 GC-5 × 2	Φ377 × 1512	5500 × 1250 × 1500
XRWF- II -50	40-50	15-20	7.5	1.5	3	V-0.36/7	IS65-40-200	Φ600 × 1880	6050 × 1500 × 1500
XRWF- II -75	50-75	18-27	7.5	1.5	3	V-0.36/7	IS65-40-200	Φ600 × 1880	6190 × 2200 × 2250
XRWF- II -100	90-100	30-35	15	1.5	5.5	V-0.63/7	IS80-50-200	Φ700 × 1980	8810 × 2500 × 2280
XRWF- II -150	125-150	60-80	22	2.2	5.5	V-0.63/7	IS150-80-400	Φ800 × 1980	10020 × 2500 × 2250
XRWF- II -200	175-200	80-100	22	3	7.5	V-1/7	IS150-80-400	Φ800 × 2100	11100 × 2800 × 2800
XRWF- II -250	225-250	110-120	22	3	7.5	V-1/7	IS150-80-400	Φ800 × 2400	16000 × 2800 × 2800
XRWF- II -300	280-300	120-180	37	3	11	V-1.5/7	IS150-125-400B	Φ1000 × 2800	21000 × 2800 × 2800

## XRWF系列溶气气浮机(竖流式) XRWF SERIES DISSOLVED AIR FLOATING MACHINE(VERTICAL TYPE)

专利号(Patent No.)  
201020688577.3



XRWF系列溶气气浮污水处理机为钢制结构，其工作原理是：空气通过泵送入压力溶气罐，在0.5Mpa压力下被强制溶解在水中，在突然释放的情况下，溶解在水中的空气析出，形成大量致密的微气泡群，在缓慢上升过程中吸附悬浮物，使悬浮物密度下降而上浮，达到去除SS和CODcr的目的。该产品适应于石油、化工、造纸、皮革、印染、食品、淀粉等污水处理。

XRWF series of dissolved air floating processor is made of steel. it's working principle is: the pump convey the air into the compressing dissolved air tank and under the 0.5Mpa the air can be dissolved into the water. under the condition of sudden releasement of the water, air dissovled into the water can released and produce a lot of high density of air bubble that can absorb the suspending substance when going up slowly to make the suspending substance dencity low, then the suspending substance can float to get rid of SS and CODcr. this machine is very suitable to the water processing from petroleum, chemical, papermaking, leather, printing. food and starch industry.

型号 Model	处理能力 Productivity m³/h	罐体直径 Shell of tank diameter mm	罐体高度 Shell of tank height mm
XRWF-5	5	1400	2500
XRWF-10	10	2000	2500
XRWF-20	20	2400	2500
XRWF-30	30	2400	3750
XRWF-50	50	2800	4000
XRWF-75	75	3400	4250
XRWF-100	100	4000	5000
XRWF-150	150	4800	5000
XRWF-200	200	5600	5500
XRWF-250	250	6000	5500
XRWF-300	300	6800	5500
XRWF-350	350	8000	5500
XRWF-400	400	8000	6000
XRWF-500	500	8500	6500
XRWF-750	750	10000	7000





## XWF系列涡凹气浮机 XWF SERIES CAVILATION AIR FLOATATION MACHINE

专利号(Patent No.)  
200730016531.0



XWF系列涡凹气浮机是本公司引进国外技术，研制开发的产品，获得山东省环境保护产品使用认证证书。该系统对COD、BOD去除率达50-80%以上，SS去除率达90%以上，具有能耗低、效率高、运行经济、操作简便、投资费用低、占地面积小等优点，广泛应用于化工、印染、造纸、炼油、淀粉、食品等行业的工业污水和城市污水的治理。

XWF series of cavilation floa air floatation machine is absorbed america technology and developed latest that obtained the certification of usage approval of shandong province environtal protection. This system can get rid of cod bod to a rate of 50-80% and ss of 90%.that has many advantages such as a low cost ,high efficiency, easy cooperation and low investment, less area used .this system can use extensively in the industries for papermaking chemical ,print, oil refining, starch, food so on.



型号Model	处理能力(m³/h) Processing capacity	总动力 ( KW ) Total Power	长(m) Length	宽(m) Width	高(m) Height
XWF-10	10	3.35	3	1.25	1.65
XWF-15	15	3.35	4	1.25	1.65
XWF-20	20	3.7	4.5	1.25	1.65
XWF-30	30	3.7	5	1.25	1.65
XWF-50	50	3.7	6	1.5	1.65
XWF-75	75	5.2	6.5	2.2	1.9
XWF-100	100	8.1	8	2.2	1.9
XWF-150	150	8.9	11	2.2	1.9
XWF-200	200	12.1	15	2.2	1.9
XWF-320	320	18	15	3	1.9
XWF-400	400	22.2	16.5	3.5	1.9
XWF-500	500	26.6	20.5	4.5	1.9

## XWAF微浮选气浮污水处理机 XWAF SERIES MICRO-AIR BUBBLE DAF CLARIFIER



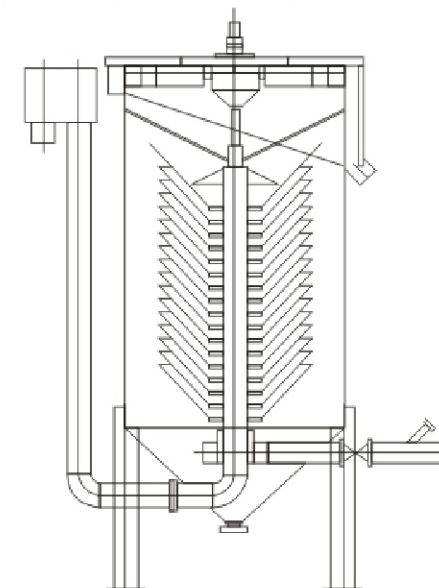
微浮选溶气气浮污水处理机是我公司研制的一种高科技污水处理设备，通过全新的整流措施，大大提高了污水处理的效果。

This machine is a kind of last high-tech wastewater treating equipment, which has better treating effect through new modification of Flow Pattern.

### 设备特点 EQUIPMENT FEATURE

- 该机配有高效溶气系统，微气泡平均直径在1μm以下，与目前国内外20-50ml的水平比较，至少减小了20倍，即当溶气量相等时，微气泡总表面积至少增大了400余倍。实际上，由于溶气率大幅提高，微气泡总表面积或气泡密度增加了上千倍。国外学者研究表明：当微气泡直径小于一定值后，根据统计力学，其周边分子热运动的撞击力将失去平衡，气泡将参与部分布朗运动，极为有利于气泡内氧分子向污水中扩散，因而曝气效果将高出远不止上千倍。
- 该机内采用特殊的不锈钢机构，起到前所未有的整流、稳流效果，以及特殊的高效释放系统，最大限度地消除溶气水的能量，也就是说使溶气从深度平衡的高能值降到几乎接近常压的低能值。
- 该设备结构紧凑、小型化、占地面积小：如日处理1000-4000m³纸机白水量，设备高度仅5.5米，占地10m²，完全可以安装在车间内部。
- 该机动力消耗少，比普通气浮可降低50%以上。
- 药品消耗低，比普通气浮法可降低50%以上。
- 排除浮渣浓度高，可达4%以上，出水清澈透明，SS去除率达96%以上，非溶性COD可全部去除。

### 安装示意图 INSTALLATION DIAGRAM



- Using high efficiency dissolved-air system, average diameter of miro-air buble is less than 1μm, 20 times smaller than old dissolved-air system. Under the same air-solubility, total surface area of micro-air bubble is 400 times larger at least. The researches of foreign scholars have shown that : when the diameter of micro-air bubble is less than a given number, andom thermal jiggling of water molecular near micro-air bubble loses its balance, and the air bubble take part in Brownian motion, This condition is favorable for the diffusion of oxygen molecules to the wastewater. So the effcet of air floatation may may be more than 1000 times higher than the old system.
- Using special stainless steel device to get the best effcet of flow pattern, using special releasing system to relieve power of dissolved-air water. Then dissolved-air may change down from high-energy to low-energy smoothly.
- Construction is compact , covering less room. For example: capacity for 1000-4000m³/d, hight of equipment is only 5.5m, floor area is only 10m², may be installed inside the workshop.
- Low power consumption, reduce over 50% than oter equipment.
- Low chemical consumption, reduce over 50% than oter equipment.
- Consistency of scum is high, may be reach 4%, outlet water is clear, SS removal rate may be voer 96%, no-solvent COD may be remover completely.





## 气浮设备 AIR FLOATATION EQUIPMENT



## XDXN电絮凝气浮机 XDXN ELECTRICITY FLOCCULATION FLOATING MACHINE

专利号(Patent No.)  
202122297578.6



电絮凝污水处理装置是基于电化学处理技术原理的一种处理高浓度、高色度、难降解、有毒有机污染物和含有重金属污染的工业废水的新型设备。本设备在传统的利用电解槽进行废水电絮凝处理基础上，进行了独创性设计和重大改进，使设备在处理废水的过程中同时具有电凝聚、电气浮和电化学氧化还原降解作用，大大提高了有机污染物和重金属的去除率，同时解决了电极钝化问题，显著延长了电极寿命，提高了电流效率。

Electric flocculation sewage treatment plant is the electrochemical treatment technique for treating high concentration, high chroma, new equipment, difficult degradation of toxic organic pollutants and heavy metals polluted industrial wastewater based on. The equipment in the use of conventional electrolysis cells in wastewater by electric flocculation treatment on the basis of the original design, and a significant improvement, so that the equipment in the process of treating wastewater with electro coagulation floatation, and electrochemical redox degradation, greatly improve the removal rate of organic pollutants and heavy metals, and solves the problem of electrode passivation, prolong the service life of the electrode, improves the current efficiency.

### 主要技术参数

#### MAIN TECHNIQUE PARAMETER

污水来源 Water sources	PH	电量消耗 (A·h/L) Power consumption	电流密度 (A·min/dm²) Current Density	电耗消耗 (kw·h/m³) Power consumption	电解电压(单级式) (V) Electrolysis voltage	电极金属消耗 (g/m³) Electrode metal	电极材料 Electrode material	极距(mm) Polar distance	废水电解时间 (min) Water electrolysis
制革厂 Tannery	8-10	0.3-0.8	0.5-1	1.5-3	3-5	250-700	钢板	20	20-25
毛皮厂 Fur mill	8-10	0.1-0.3	1-2	0.6-1.0	3-5	150-200	钢板	20	20
肉类加工厂 Meat processing mid	8-9	0.08-0.12	1.5-2.0	1-1.5	8-12	70-100	钢板	20	40
电镀厂 Electroplating factory	9-10.5	0.03-0.15	0.3-0.5	0.4-2.5	9-12	45-150	钢板	10	20-30

### 电絮凝净化水的质量指标(mg/L)

#### QUALITY INDEX OF WATER PURIFICATION BY ELECTROCOAGULATION (MG/L)

水质指标 Water Quality Objectives	制革工厂 Tannery		皮毛工厂 Fur factory	
	原水 Raw water	净化水 Water Purification	原水 Raw water	净化水 Water Purification
悬浮物质 SS	800-2500	100-200	300-1500	100-200
化学耗氧量 COD	600-1500	350-800	700-2600	500-1500
透明度 Transparency	0-2	10-15	1-5	8-10
硫化物 Sulfide	50-100	3-5	0.4-0.7	
表面活性剂 Surfactant	40-85	5-20	10-40	4-11
Cr <sup>6+</sup>	0.5-10	无	0.5-10	0.2-2.0
Cr <sup>3+</sup>	30-60	0.5-1.0	—	—

## XXG系列斜管沉淀器 XXG SERIES LAMELLA ELARIFIER

专利号(Patent No.)  
201721557575.9



### 应用范围 APPLICATION

主要用于电厂酸碱废水、锅炉废水及锅炉酸洗废水处理系统、市政给水工程高浊度水预处理、污水厂高浓度含泥砂水的澄清分离处理，快速有效地去除水中高浓度悬浮物和有机物，悬浮物去除率可达95%以上，排泥浓度为2%~4%尤其再用于砂石冲洗和打磨水处理时，出水可达到循环利用的效果。

Mainly used for power plant boiler water and boiler water, acid pickling waste water treatment, municipal water supply engineering of high turbidity water pretreatment, wastewater containing high concentration of sand and mud water separation processing, fast and efficient removal of suspended solids in water with high concentration and organic matter, suspended solids removal rate can reach above 95%, the concentration of 2%~4% in mud for sand washing and polishing water treatment, effluent can reach the recycling effect.

### 工作原理 WORKING PRINCIPLE

澄清器进出水方式为上进上出，底部为排泥及污泥循环。并在设备底部泥斗上设置多个采样孔，可根据需要设置视镜，以观察测试污泥量。加药后的原水在混合反应经设备上稳流槽进水后，沿池两侧流入设备下部锥体，同锥体向上过组合填料区，经特殊设计的组合填料在高度和安装角度与普通澄清器不同，更有利于泥水分离加快污泥的沉淀设备出水采用上部特殊水渠集水，使出水流速均匀，减少紊流，达到其处理效果。澄清池上部为收集泥斗，泥斗角度较大，确保排泥畅通，排泥浓度高，回流与进水混合，可较快与原水中杂质颗粒接触、吸附，达到泥水快速分离，充分发挥混凝剂的作用和提高澄清效率。

Water clarifier in and out of the way for progress on the mud and sludge at the bottom of the cycle. And set up multiple sampling hole in the bucket at the bottom of the equipment, can according to need to set sight glasses, to test the sludge volume. After dosing of the raw water in a mixed reaction by upper equipment stability after the chute feed water, into the equipment on both sides along the pool bottom cone, cone up with combination packing area, specially designed combination packing in height and installation Angle is different from ordinary clarifier, more conducive to mud separation speed sludge precipitation equipment water upside special canal water, the water flow evenly, reduce turbulence, its processing effect. Clarification pool for collecting bucket, bucket Angle is big to ensure that the mud, mud density is high, the backflow is mixed with water, can be quickly in contact with the impurity particles in the raw water, adsorption, achieve mud rapid separation, give full play to the role of the coagulants and improve the efficiency of clarification.

型号 Model	额定处理量 (m³/h) Capacity	主体外形尺寸(mm) Body Outside size	工作压力(Mpa) Working pressure	工作温度 (°C) working temperature	设备形式 Type
XXG-50	50-75	4500×1900×3600	常压 Norinal	常温 Norinal	重力式 Gravity
XXG-100	100-125	5500×1900×4650			
XXG-150	150-180	6500×2250×4650			
XXG-200	185-220	7200×2500×4950			





## 生物氧化设备 BIOLOGICAL OXIDATION EQUIPMENT

### IC内循环厌氧反应器 IC INTERNAL CIRCULATION ANAEROBIC REACTOR

专利号(Patent No.)  
201721557599.4



IC厌氧反应器是继UASB、EGSB之后的一种新型厌氧反应器，具有容积负荷高，抗冲击负荷能力强，出水稳定性好，产气量大，污泥量低，运行成本低，经济效益明显的特点，特别适合于中高浓度污水处理工程。

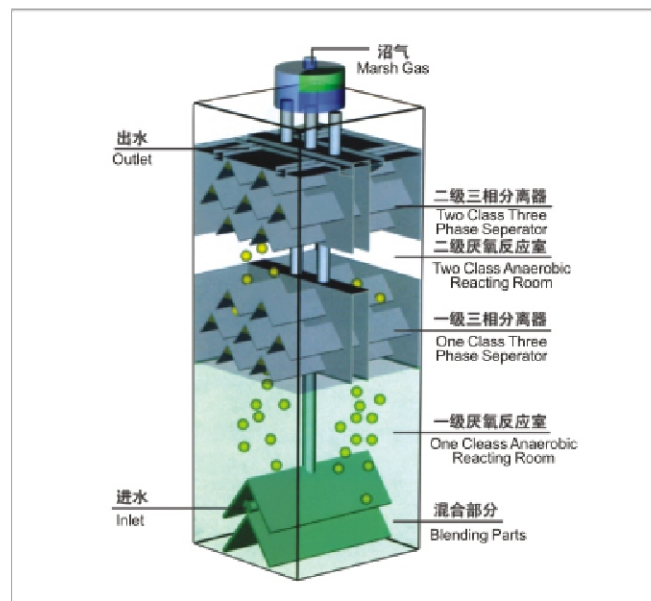
IC厌氧反应器通过上下两层集气罩把反应器分为上下两个室，两个室通过内循环装置组合在一起。进入IC厌氧反应器的有机物大部分在下反应室被消化，所产生的沼气被下层集气罩阻隔收集进入提升管，由于提升管内外液体存在密度差，促使发酵液不断被提升至气液分离器，分离沼气后又回流到下反应室，形成了发酵液的连续循环。

鉴于内循环发生在下反应室，故下反应室有较高的水力负荷，高水力负荷和高产气负荷使污泥与有机物充分混合，使污泥处于充分的膨胀状态，传质速率高，大大提高了厌氧消化速率和有机负荷。

上反应室是反应器的低负荷区，它只是消化下反应室少量来不及消化的有机物，沼气产量少。产气负荷低，内循环不进入上反应室，上反应室较低的产气负荷和较低的水力负荷有利于污泥的沉降和滞留，从而能维持反应器内较高的污泥浓度。

由于厌氧消化速率取决于污泥浓度和传质速率，影响传质的因素是产气负荷和水力负荷，它们一方面是强化传质的重要因素，又是造成污泥流失的根本原因，而IC厌氧反应器由于有了内循环装置，改变了产气负荷与水力负荷的作用方向，在高负荷下能避免污泥的流失，在一定程度上实现了“高负荷与污泥流失相分离”，从而使IC厌氧反应器具有比UASB、EGSB更高的有机负荷。

#### 工作原理示意图 SCHEMATIC DIAGRAM



IC anaerobic reactor is a new type anaerobic reactor after UASB, after EGSB, with high volume load, strong capacity of anti shock loading, water stable performance, large gas production rate, the amount of sludge is low, low operation cost, obvious economic benefit, especially suitable for high concentration wastewater treatment engineering.

IC anaerobic reactor by two layers of gas collecting hood of the reactor is divided into two rooms, two rooms by the inner circulation device together. Organic matter into the IC anaerobic reactor in the reaction chamber was most digestion, biogas generated by the lower air collecting cover barrier is collected into the riser, riser and the liquid density difference, the fermentation has been upgraded to a gas-liquid separator, separation of biogas and went back to flow to the reaction chamber, forming a continuous circulating fermentation liquid.

Cycle occurs in the lower chamber view, have a higher hydraulic loading the reaction chamber, high hydraulic loading and high gas load of the sludge and organic matter are fully mixed, the sludge is bulking full, high mass transfer rate, greatly improve the anaerobic digestion rate and organic load.

The reaction chamber is on low load zone of a reactor, it is the digestion reaction chamber organic matter little time to digest, biogas yield less. Gas load is low, do not enter the circulation within the reaction chamber, gas load reaction chamber lower and lower hydraulic loading is conducive to the settlement of the sludge and retention, which can maintain the high sludge concentration in the reactor.

### 厌氧系统-UASB反应器 ANAEROBIC SYSTEM-UASB

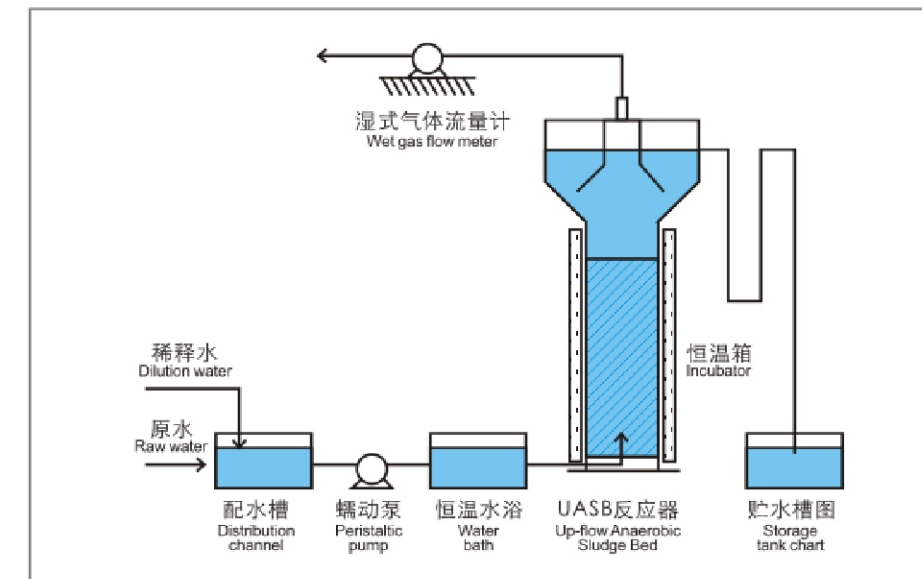


#### 工作原理 WORK PRINCIPLE

UASB反应器的上部设置气、固、液三相分离器，下部为污泥悬浮层区和污泥床区，废水由反应器底部均匀泵入污泥床区，与厌氧污泥充分接触反应，有机物被厌氧微生物分解成沼气。液体、气体与固体形成混合液流上升至三相分离器，使三者很好地分离，使80%以上的有机物被转化为沼气，完成废水处理过程。

UASB reactor has a separator of gas, liquid and solid on the top and has a sludge suspending parts on the bottom. the sewage enters from the bottom of the reactor to the sludge bed to blend with the anaerobic sludge and the organic has been dissolved marsh gas. the gas and liquid and solid can be up to the three phase separator for further separation. 80% organic can be transfer to be marsh gas.

#### 工作原理示意图 SCHEMATIC DIAGRAM



#### 应用范围 APPLICATION

- 高浓度有机废水，如酒精、糖蜜、柠檬酸等废水
- 中浓度废水，如啤酒、屠宰、软饮料等废水
- 低浓度废水，如生活污水等废水

- High density organic sewage such as from alcohol honey and limon acid industries
- Middle density such as from beer, slaughtering and soft drinking industries
- Low density such as from the living sewage





## 生物氧化设备 BIOLOGICAL OXIDATION EQUIPMENT

### XFD芬顿反应器 XFD FENTON REACTOR



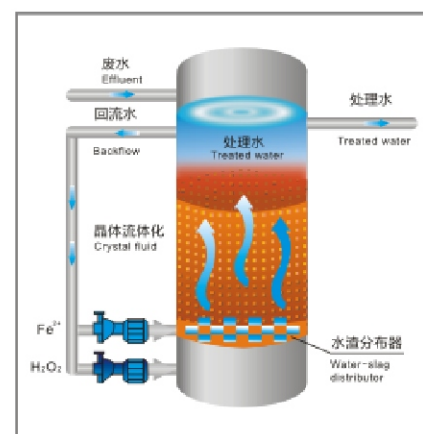
芬顿反应器，又称为芬顿流化床反应器、芬顿反应塔，是进行芬顿反应对废水进行高级氧化的必要设备。我公司在传统芬顿反应塔的基础上，研发了具有专利技术的芬顿流化床反应器，本设备利用流化床方式使芬顿法所产生的 $\text{Fe}^{3+}$ 大部分以结晶或沉淀附着在流化床芬顿载体表面，可大幅减少传统芬顿法的加药量产生的化学污泥量（ $\text{H}_2\text{O}_2$ 加入量减少10%~20%， $\text{Fe}^{2+}$ 加入量减少50%~70%，污泥量减少40%~50%），同时在载体表面形成的铁氧化物具有异相催化效果，而流化床技术也促进了化学氧化反应速率及传质效应，使COD的去除率有效提升10%~20%，处理运行费用节省30%~50%。

Fenton reactor, also known as the Fenton fluidized bed reactor, Fenton reaction tower, is the Fenton reaction to the wastewater advanced oxidation of the necessary equipment. Our company based on the traditional Fenton reaction tower, Fenton developed a fluidized bed reactor with patented technology, the equipment using the fluidized bed to Fenton generated by  $\text{Fe}^{2+}$  most of the crystallization or precipitation attached on the surface of fluidized bed Fenton carrier, chemical sludge can significantly reduce the amount of medicine produced the traditional Fenton method ( $\text{H}_2\text{O}_2$  amount is reduced by 10% to 20%,  $\text{Fe}^{2+}$  content reduced 50% ~ 70%, 40% ~ 50%) to reduce the amount of sludge, while the formation of iron oxide on the surface of the carrier with heterogeneous catalytic effect, and fluidized bed technology also promoted the chemical reaction rate and mass transfer effect, the removal rate of 10% ~ 20% COD effective promotion, operation treatment cost savings from 30% to 50%.

#### 应用范围 APPLICATION

芬顿反应器在去除难降解有机污染物，如印染废水、含油废水、含酚废水、焦化废水、含硝基苯废水、二苯胺废水等废水处理中体现了很广泛的应用。芬顿（Fenton）法作为废水高级处理技术，利用 $\text{Fe}^{2+}$ 和 $\text{H}_2\text{O}_2$ 之间的链反应催化生成具有强氧化性的羟基自由基（ $\cdot\text{OH}$ ），可氧化各种有毒和难降解的有机化合物，针对高浓度难生物降解废水处理，可作为生物前处理以改善水质，提升废水的可生化性，为后续的深度处理创造有利条件。特别适用于生物难降解或一般化学氧化难以奏效的有机废水如垃圾渗滤液的深度处理。

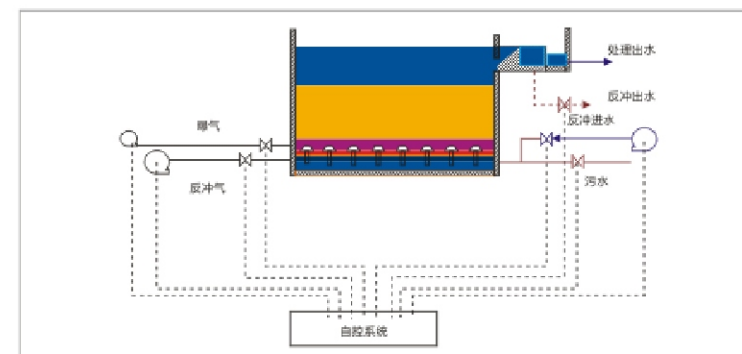
Fenton reactor in the removal of refractory organic pollutants, such as printing and dyeing wastewater, oily wastewater, containing phenol waste water, coking wastewater, containing nitrobenzene wastewater, aniline wastewater treatment reflects a wide range of applications. Fenton Method as an advanced wastewater treatment technology, using catalytic chain reaction between  $\text{Fe}^{2+}$  and  $\text{H}_2\text{O}_2$  to generate a strong oxidation of the hydroxyl radical ( $\cdot\text{OH}$ ), oxidation of various toxic and refractory organic compounds. In view of the high concentration and hard biodegradable wastewater treatment, as for biological pretreatment to improve water quality, improve the wastewater biodegradability and depth to the subsequent processing to create favorable conditions. It is especially suitable for the treatment of organic wastewater which is difficult to be degraded by biological or chemical oxidation, such as landfill leachate.



### BAF曝气生物滤池 BAF BIOLOGICAL AERATED FILTER



#### 工艺流程图 PROCESS FLOW CHART



#### 工作原理 WORKING PRINCIPLE

曝气生物滤池（BAF）被称为第三代生物滤池。滤池中装填粒径较小的粒状滤料，通过滤池内部曝气，滤料表面生长着高活性的生物膜。污水流经时，利用滤料表面高活性生物膜及滤料之间生物絮体的生物氧化降解作用，对污水进行生化处理；因滤料粒径较小且呈压实状态，在生物膜及滤料之间生物絮体的吸附作用下，滤层可以吸附、截留污水中极大部分的悬浮物（包括脱落的生物膜），其后不需要设置沉淀池。随着运行时间的延长，滤池水头损失逐渐增加，当达到设计值时需对滤池进行反冲洗，清洗截留的悬浮物以及老化的生物膜。

Biological aerated filter (BAF) is called the third generation of biological filter. Filter particles filled with a smaller particle size of the granular material, through the filter inside the aeration, the surface of the high activity of the biological membrane. Sewage flows through, the filter surface activity and high biological membrane and between the filter biological floc biological oxidation degradation, the sewage of biochemical treatment; filter particle diameter is smaller and has a compacted state and between the biofilm and filter bio flocculation adsorption effect, filter layer can adsorption, retention sewage in most of the suspended solids (including the detached biofilm) and subsequently do not need to set sedimentation tank. With the extension of running time, the loss of filter head loss increased gradually, when the design value was reached, the filter was washed, the suspended matter and the aging biofilm were cleaned.

#### 工艺技术优势 TECHNOLOGICAL ADVANTAGES

- 1、出水水质好，可达到回用水水质标准。
- 2、对氨氮的处理出水 $\leq 0.5\text{mg/L}$ ，对SS的处理出水 $\leq 5\text{mg/L}$ 。
- 3、占地面积是一般工艺的1/3~1/5。
- 4、能耗低，运行费用是一般工艺的1/2。
- 5、耐冲击负荷、耐低温、启动快。
- 6、全自动化控制，管理非常简单。

- 1, Good water quality, can achieve the reuse water quality standard.
- 2, The ammonia effluent less than  $0.5\text{mg/L}$ , the treatment of SS effluent is less than  $5\text{mg/L}$ .
- 3, Covers an area of general technology 1/3-1/5.
- 4, Low energy consumption, operation cost is the general process of 1/2.
- 5, Resistance to shock load, low temperature, fast start.
- 6, Fully automatic control, management is very simple.





## 生物氧化设备 BIOLOGICAL OXIDATION EQUIPMENT

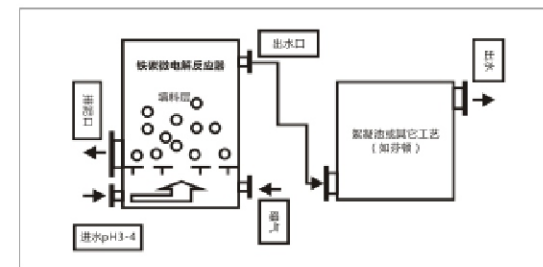
## 铁碳微电解反应器 IRON CARBON MICRO ELECTROLYSIS REACTOR



### 应用范围 APPLICATION

1. 印染废水，焦化废水，石油化工废水。
2. 石油废水，皮革废水，造纸废水，木材加工废水。
3. 电镀废水，印刷废水，采矿废水，其他含有重金属的废水。

1. printing and dyeing wastewater, coking wastewater, petrochemical wastewater.
2. oil wastewater, leather wastewater, papermaking wastewater.
3. electroplating wastewater, printing wastewater, mining wastewater, other heavy metal containing wastewater.



### 工艺原理 PROCESS PRINCIPLE

微电解法是利用金属腐蚀原理，形成原电池对废水进行处理的良好工艺，又称内电解法。它是在不通电的情况下，利用填充在废水中的微电解材料自身产生高低电位差对废水进行电解处理，以达到降解有机污染物的目的。微电解填充料主要成分为铁、炭、低电位合金及催化剂，并且以极小颗粒的形式分散在微电解剂内；有很高的比表面积，可以与废水充分地接触。由于炭、合金的电极电位比铁低，加上催化剂的催化作用，当电解剂处在电解质溶液中时就形成无数个腐蚀微电池，在它的表面就有电流在成千上万个细小的电池内流动，铁作为阳极被腐蚀消耗，当体系中有宏观的阴极材料存在时，又可以形成宏观腐蚀电池。电极反应生成的 $Fe^{2+}$ 及进一步氧化成 $Fe^{3+}$ 及它们的水合物具有较强的吸附-絮凝活性，特别是在加碱调pH值后生成氢氧化亚铁和氢氧化铁胶体絮凝剂，它们的吸附能力远远高于一般药剂水解得到的氢氧化铁胶体，能大量吸附水中分散的微小颗粒，金属离子及有机大分子。在中性或偏酸性的环境中，微电解剂本身及其产生的新生态 $[H]$ 、 $Fe^{2+}$ 等与废水中的许多组分发生氧化还原反应。比如能破坏有色废水中的有色物质的发色基团或助色基团，甚至断链，可以脱色，降低COD Cr 提高可生化性，还可以氧化金属离子，降低其毒性。另外，由于电池的电极周围存在电场效应，使溶液中的带电粒子在电场作用下作定向移动，吸附到电极上，从而去除水中的污染物，对含磷废水除磷有较好的效果。

The micro electrolysis method is a good process for the treatment of waste water by using the principle of metal corrosion. It is in the case of no electricity, the use of filled in the waste water in the micro electrolysis of materials to produce their own high and low potential difference in the electrolytic treatment of wastewater, in order to achieve the purpose of degradation of organic pollutants. The main components of the micro electrolysis structured packing are iron, carbon, low potential alloy and catalyst, and are dispersed in the micro electrolytic agent in the form of very small particles. Because the electrode potential of carbon, low alloy than iron catalyst, and, when in the electrolytic agent in electrolyte solution on the formation of a micro corrosion cell, on its surface a current flowing in the tens of thousands of tiny cell, iron as anode corrosion cathode material consumption, when there is a macro in the system, they can form a macro cell corrosion. The electrode reaction of  $Fe^{2+}$  and  $Fe^{3+}$  into further oxidation and their hydrate has strong adsorption and flocculation activity, especially the formation of ferrous hydroxide and ferric hydroxide colloid flocculant by adding alkali to adjust the pH value, the adsorption capacity are far higher than the general agent hydrolysis of ferric hydroxide colloid particles can adsorb a large number of scattered metals. Particles and organic molecules. In the neutral or acidic environment, the micro electrolysis agent itself and the resulting new ecological  $[H]$ ,  $Fe^{2+}$ , and many of the components of wastewater oxidation reduction reaction. For example, it can destroy the chromophoric group or color group, and even break the chain, can reduce the CODCr to improve the biodegradability, but also can oxidize the metal ions and reduce the toxicity. In addition, due to the presence of electric field around the battery electrode, the charged particles in the solution of mobile in the electric field under the effect of product orientation, attached to the electrode, resulting in the removal of pollutants in water, has a good effect on removal of phosphorus in wastewater.

## XADT氨氮吹脱塔 XADT AMMONIA NITROGEN STRIPPING TOWER



### 应用范围 APPLICATION

我公司开发的氨氮处理系统通过将氨氮吹脱和吸收塔净化等多项技术组合起来，处理不同浓度的氨氮废水，可以将10000mg/L以上的氨氮废水处理到排放要求。处理后的氨氮浓度在15mg/L以下，达到国家一级排放标准。我公司在氨氮吹脱塔后又设置了吸收塔，从而使排向大气的空气为净化后的气体，无污染。

应用领域：医药、农药化工废水；垃圾填埋厂渗滤液；化肥生产废水；焦化行业废水；稀土冶炼废水；生活污水等。

Our company to develop the ammonia removal system by ammonia blowing removal and absorption tower purification combination of a number of techniques, different concentration of ammonia nitrogen in wastewater treatment, can be discharged into more than 10000mg / L of ammonia nitrogen in wastewater treatment. After treatment, the concentration of ammonia nitrogen is below 15mg/L, reaching the national first level emission standard. Our company in the ammonia stripping tower and set the absorption tower, so that the emission to the atmosphere of air for the purified gas, no pollution.

Application: pharmaceutical, pesticide and chemical wastewater; landfill leachate; fertilizer production

### 应用特点 FEATURE

- (1) 通过组合工艺，能处理不同浓度的废水，氨氮去除率高，处理后达到国家一级排放标准 $\leq 15$  mg/L以下。
- (2) 低能耗、低成本，每吨废水的处理成本在5-10元，远远低于传统工艺的处理成本15-25元/吨。
- (3) 系统产生的废气全部进入氨吸收系统，使整个处理更加环保。
- (4) 设备内部设计更加合理，解决了低温气候对吹脱效率的影响和长时期运行后填料的堵塞问题。
- (5) 设备采用玻璃钢材质或碳钢防腐材质进行加工，解决了传统设备使用污水腐蚀带来的寿命较短的问题。

- (1) Through the process combination, different concentrations of wastewater treatment, high removal rate of ammonia nitrogen, the post processing to the national level emission standard is less than or equal to 15 mg / L below.
- (2) Low energy consumption, low cost, treatment costs per ton of wastewater in the 5-10 yuan, far less than the traditional process of processing costs 15-25 yuan / ton.
- (3) All the waste gas generated by the system enters into the ammonia absorption system, which makes the whole process more environmentally friendly.
- (4) The interior design of the equipment is more reasonable, and the effect of low temperature on the efficiency of the blowing and the clogging of the packing after long period is solved.
- (5) The equipment uses the glass steel material or the carbon steel anticorrosion material to carry on the processing, has solved the traditional equipment to use the sewage corrosion to bring the short life question.





## 污水处理系统 SEWAGE TREATMENT SYSTEM



### XWB地埋式一体化污水处理设备 XWB UNDERGROUND INTEGRATED SEWAGE TREATMENT EQUIPMENT

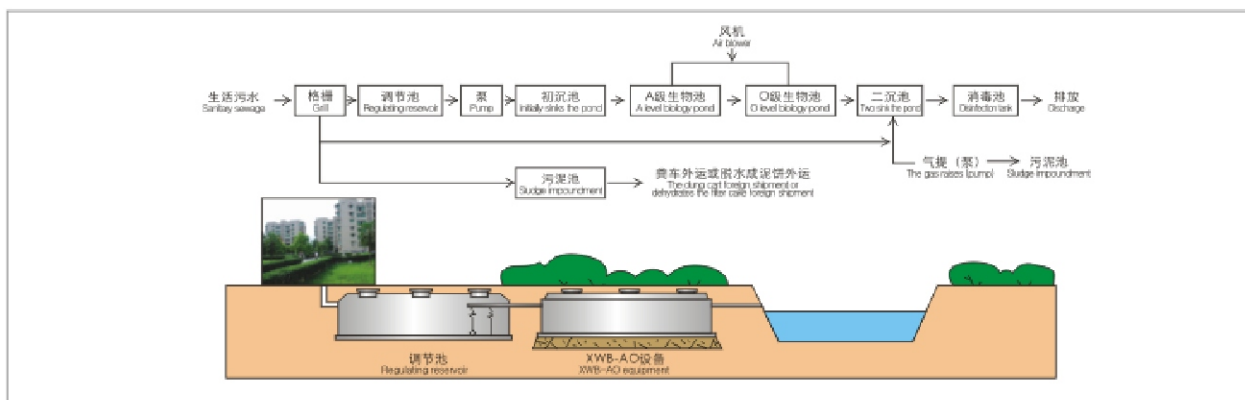
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202020429285.1



#### 概况 SURVEY

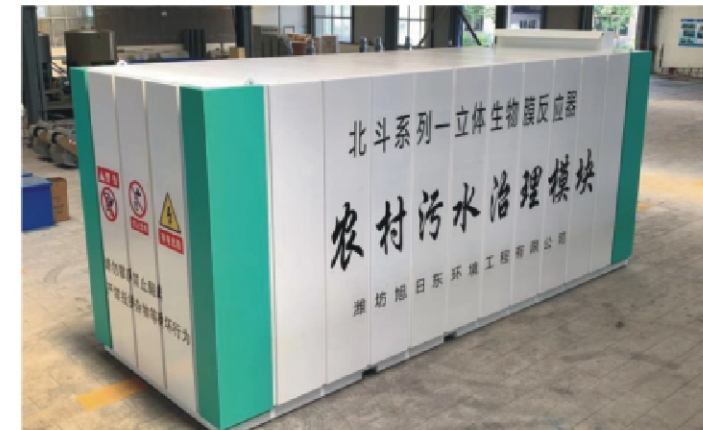
随着我国对外开放的不断深入,我国旅游业及房地产业蓬勃发展,高级宾馆及别墅小区拔地而起,而高级宾馆及别墅小区往往又远离城市污水处理厂,给集中处理生活污水带来不便,为了保护环境,造福子孙后代,由我们与科研院所研制成功了XWB-AO系列污水处理设备,该设备采用世界上先进的生物工处理艺,集去除BOD<sub>5</sub>、COD、NH<sub>3</sub>-N于一身,是目前最高效的污水处理设备。它被广泛地用于高级宾馆、别墅小区及居民住宅小区的生活污水处理,替代了去除率很低,处理后出水不能达到国家综合排放标准的化粪池。经过实地应用表明,XWB-AO系列污水处理设备是一种处理效果十分理想且管理方便的设备。

Along with our country opening to the outside world unceasingly thorough, our country tourism and the real estate industry vigorous development, the high-quality guesthouse and the villa plot rises straight from the ground, but the high-quality guesthouse and the villa plot often is far away from the Urban sewage treatment plant, brings inconveniently for the centralized processing sanitary sewage, to protect the environment, benefits the posterity, developed successfully the XWB-AO series sewage treatment equipment by us with the Scientific research institutes, this equipment used in the world the advanced biological labor processing skill, the collection removes BOD<sub>5</sub>, COD, NH<sub>3</sub>-N in a body, was at present the most highly effective sewage treatment equipment. It widely uses in the high-quality guesthouse, the villa plot and resident residential district sanitary sewage processing, substituted the elimination rate to be very low, after the processing, the water leakage could not achieve the national synthesis emission standard the septic tank. After applies on the spot indicated that the XWB-AO series sewage treatment equipment is one kind of processing effect is very ideal, and manages the convenient equipment.



### MBR一体化污水处理系统 MBR INTEGRATED SEWAGE TREATMENT SYSTEM

专利号(Patent No.)  
201721552426.3



#### 应用特点 FEATURE

本装置具有集装式的功能:将缺氧池、MBR生物反应池、污泥池、清水池和设备操作间集成在一个大的箱体,结构紧凑,流程简洁,占地面积小(只有传统工艺的1/3-1/2)、增量扩容方便,自动化程度高,操作维修简便,且可随时随地移动,即可以将本装置直接运至处理目标所在地,直接规模化进行处理,而无需进行二次施工。  
集污水处理和净水工艺流程于同一装置,可浅埋于地下也可放置在地表;处理基本无污泥产生,对周围环境无影响;运行效果好、可靠性高、出水水质稳定、运行费用较少。  
处理城市污水时,耐冲击负荷、对污染物去除效率高、硝化能力强,可同时进行硝化、反硝化,兼具脱氮除磷的功能,非常适合处理城市污水、分散式污水,出水可以回用也可以直接达标排放,能够满足不同用户的不同水质的需求。  
清水消毒池内放置新型环保活性离子材料制成的填料,不但具有杀菌消毒作用而且能够有效的去除出水中的重金属离子,既克服了药洗消毒造成的二次污染问题又降低了出水的重金属浓度,使回用水水质大大提高。  
膜生物反应池的曝气管路分为两路,一路对周边活性污泥进行曝气,另一路对膜组件的膜片进行曝气。其优点为通过对膜片曝气产生的冲刷力使膜片相互拍打,这样可以抖落附在膜孔表面的钙化污泥,使膜通量大大提高延长了膜的使用寿命,从而降低了运行成本。

#### 应用范围 APPLICATION

原有污水处理厂、自来水厂的升级、改造  
市政污水处理厂、自来水厂的新建  
纯水生产预处理  
中水回用  
宾馆、饭店、小区的生活污水处理回用  
工矿企业、偏远农村、哨所、旅游景区的生活污水回用。  
与生活污水性质类似的各种工业废水(医院废水、医药废水、洗涤废水、食品废水、卷烟废水等)  
Upgrading and rebuilding of existing sewage treatment plants and waterworks  
New construction of municipal wastewater treatment plants and waterworks  
Pretreatment of pure water production  
Water Reuse  
Treatment and reuse of domestic sewage in hotels, restaurants and residential quarters  
Domestic sewage reuse in industrial and mining enterprises, remote rural areas, post offices and tourist attractions.  
A variety of industrial wastewater (hospital waste water, medical waste water, washing wastewater, food waste water, cigarette waste water, etc.) which are similar to the nature of domestic sewage





## 污水处理系统 SEWAGE TREATMENT SYSTEM



### MBBR污水处理设备 MBBR SEWAGE TREATMENT EQUIPMENT

专利号(Patent No.)  
202122412303.2



#### 应用特点 FEATURE

MBBR污水处理装置是介于活性污泥法和固定生物膜法之间的高效新型反应器，是现今技术领先、结构独特、运行经济的污水处理装置之一。该产品具有模块化设计、占地面积小、后续运营费用低、处理效果稳定、出水稳定达到《城镇污水处理厂污染物排放标准》(GB18918-2002)一级A标准。

MBBR污水处理设备主要分为五个部分，分别为厌氧池、好氧池、二沉池、污泥浓缩池、接触消毒池。生化池中比表面积较大的填料因搅拌在水中自由运动，污水连续经过装有移动填料的反应器时，微生物在填料上生长并形成生物膜，生物膜上微生物大量繁殖，异养和自养微生物利用水中的C、N、P等进行新陈代谢，从而起到净化污水的作用。

由于采用充氧效率高的曝气软管加上填料很大的比表面积，MBBR污水处理装置无论在充氧能力、微生物活性、出水水质等方面都具有极大的优势。

MBBR wastewater treatment plant is a new efficient reactor between activated sludge process and fixed biofilm process. It is one of the advanced technology, unique structure and economical operation wastewater treatment plants. The product has modular design, small floor area, low follow-up operating costs, stable treatment effect and stable effluent to meet the first A standard of "Pollutant Discharge Standards for Urban Sewage Plants" (GB18918-2002).

MBBR sewage treatment equipment is mainly divided into five parts: Anaerobic tank, aerobic tank, secondary sedimentation tank, sludge concentration tank, contact disinfection tank. Because of the free movement of the filler with larger specific surface area in the biochemical pond and the continuous passage of sewage through the reactor with moving filler, microorganisms grow on the filler and form a biofilm. Microorganisms multiply in large quantities on the biofilm. Heterotrophic and autotrophic microorganisms metabolize C, N and P in the water to purify the sewage. Because of the high efficiency of aeration hose and the large specific surface area of filler, MBBR wastewater treatment plant has great advantages in terms of aeration capacity, microbial activity and effluent quality.



### XSWP生物转盘污水处理系统 XSWP BIOLOGICAL ROTARY DISK TREATMENT SYSTEM



- 1、占地面积小：同等规模（3000吨/日规模以下统计）与湿地、快渗等工艺相比约为三分之一；
- 2、运营成本低：以II型为例，单台生物转盘能耗仅为0.75KW，处理能力100~200吨/天，约为0.1~0.2度电/吨污水；
- 3、剩余污泥易于处理：一方面，该工艺污泥产泥量约为传统工艺的1/3，一般生活污水产泥系数可低0.1以下；另外，该污泥为束状沉淀，活性较低，易于实现沉淀和调质，条件允许的话，在乡镇地区可用于堆肥、循环利用；
- 4、抗冲击能力强：运营管理水平影响小，水质变化适应范围极大（一定浓度的变化，系统有自适应的能力，无需工艺调整），可长期保证处理效果；
- 5、环境友好：封闭式设计，噪音低，无曝气装置，对周边环境影响很小，在国外广泛在社区、村镇地区运行；
- 6、维护要求低：无需专业维护，无易损件，活动部件均能满足长期稳定运行的要求；
- 7、设备运行可靠：30年设计寿命，可保证10年以上的稳定运行。

- 1, small footprint: the same scale (3000 tons / day scale statistics), compared with wetlands, fast infiltration process, about 1/3;
- 2, operating costs are low: to II type, for example, a single biological turntable energy consumption is only 0.75KW, processing capacity of 100-200 tons / day, about 0.1-0.2 degrees of electricity / ton of sewage;
- 3, easy residual sludge treatment: on the one hand, the process of sludge sludge production about the traditional process of 1/3, the general sewage sludge production coefficient low below 0.1; in addition, the sludge into bundles precipitation, low activity, easy realization of precipitation and conditioning, conditions permitting, in the township area can be used for compost. Recycling;
- 4, strong shock resistance: the operation and management level of small impact, water quality changes in a wide range of adaptation (a certain concentration changes, the system has the ability to adapt, without process adjustment), can guarantee long-term treatment effect;
- 5, environmental friendly: closed design, low noise, no aeration device, the surrounding environment is very small, widely in foreign countries in the neighborhood, villages and towns operating;
- 6, low maintenance requirements: no professional maintenance, no wearing parts, moving parts can meet the requirements of long-term stable operation;
- 7, reliable equipment: 30 years of design life, can guarantee more than 10 years of stable operation.

### 转盘曝气机 DISC AERATOR



转盘曝气机是在消化吸收国外先进技术的基础上，结合我国特点开发的高效低能耗氧化沟曝气装置，主要用于由多个同心沟渠组成的Orbal型氧化沟。

特点：充氧效率高、动力消耗省、推动能力强、结构简单、安装维护方便。

Wheel aerator is on the basis of digesting and absorbing foreign advanced technology, combining with the characteristics of our country development of efficient and low wage consumption oxidation ditch aeration device, mainly used in the field consists of concentric ditches, orbal oxidation ditch.

Characteristic: high oxygen transfer efficiency, power consumption province, driving ability, simple structure, convenient installation and maintenance, etc.





## 刮吸泥设备 SLUDGE SCRAPING AND SLUDGE SUCTION EQUIPMENT

### XZC系列周边传动虹吸泥机 XZC SERIES PERIPHERAL DRIVE SIPHON MUD SCRAPER

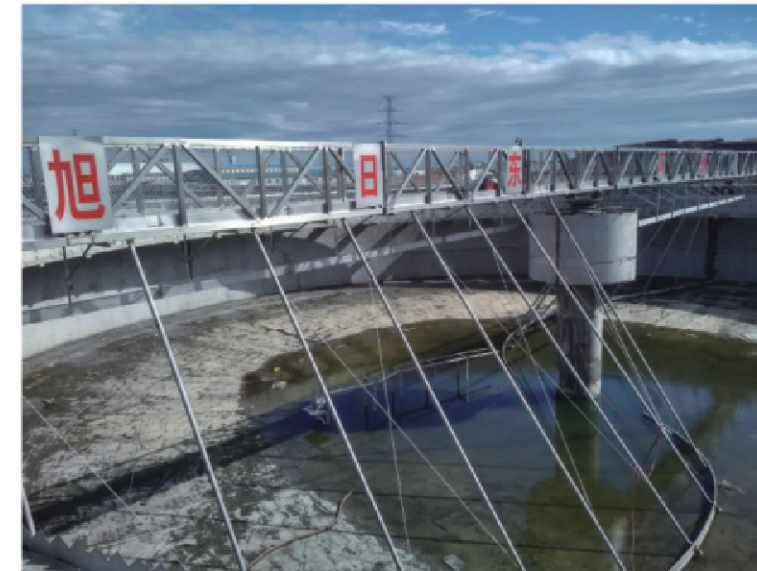


该设备采用周边传动，污水从池中心的进水管流入，经稳流筒扩散后，均匀地向周边呈辐射状流出，呈悬浮状的污泥经沉淀后沉积于池底，驱动装置带动工作桥架沿周边旋转，并带动刮臂及刮泥板转动，刮板将污泥刮集后由吸泥管依靠池内静水压抽吸至集泥槽内排入中心泥缸，再通过中心排泥管排出池外，水面的浮渣通过旋转撇渣装置导入排渣斗内排出池外；而上清液则通过三角形出水堰板溢入出水槽内排出。

This machine is peripheral drive. The sewage radial flows through the central pipe of the pool then spreaded by the distributor tube then the suspended mud can deposite. the driving device can revolve with the working bridge the scraper arm and the board can move together at the same time. the scraper board gathers the mud together and the pipe discharges the mud into the central mud tank by the water pressure bearing in the pool. The mud releases outside of the pool through the mud pipes. The suspending dross floating leads to the dross hopper through the revolving device for scrape dross. The supernatant release through the outlet trough from the triangle outlet water weir.

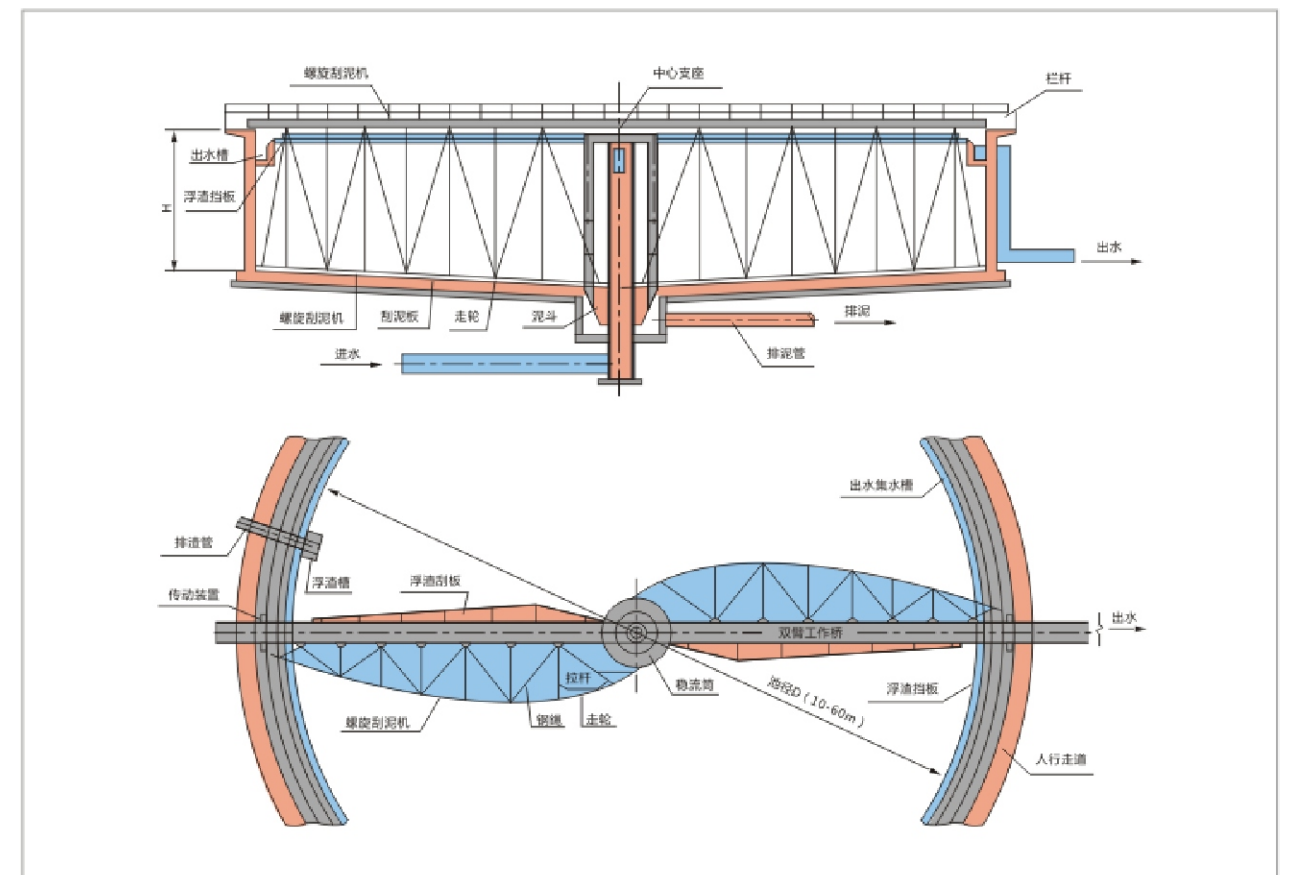
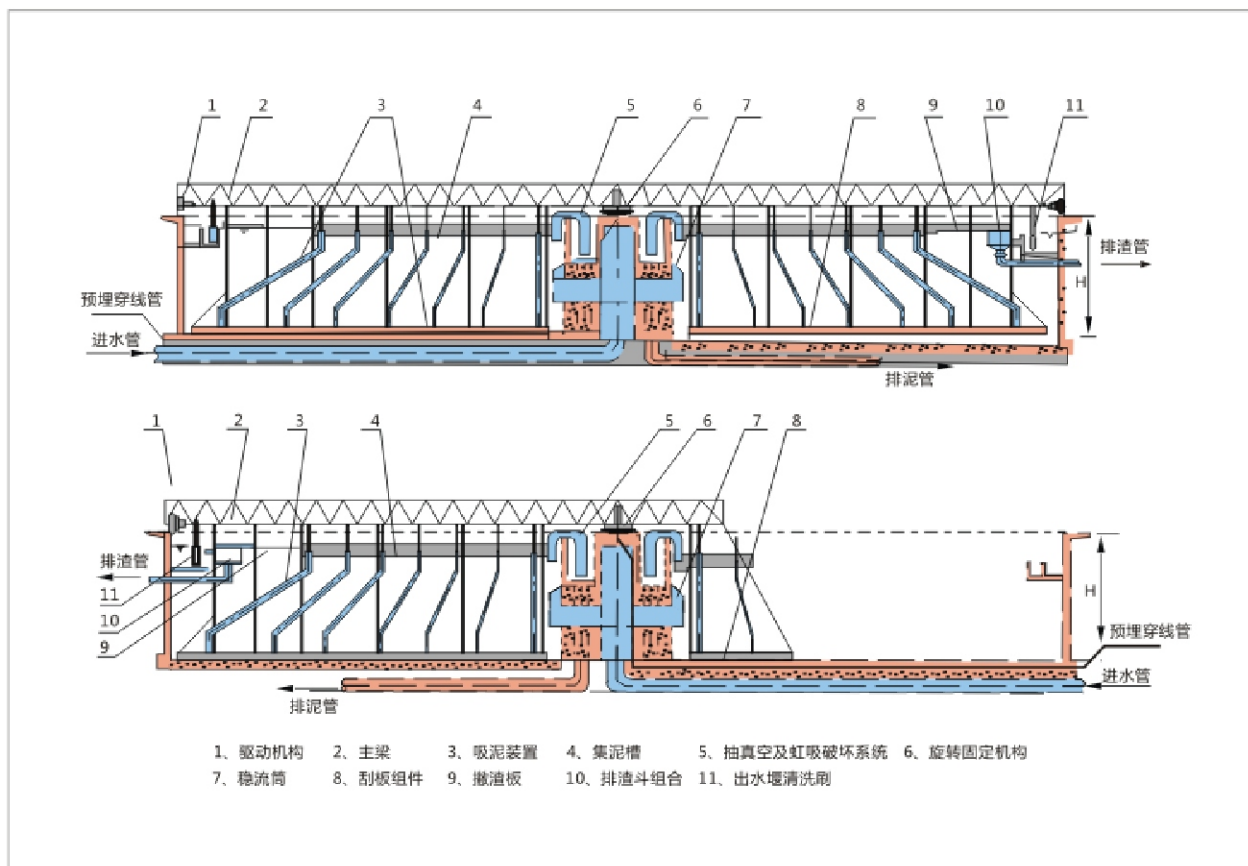
### XZCG系列周边传动刮泥机 XZCG SERIES PERIPHERAL DRIVE MUD SCRAPER

专利号(Patent No.)  
201320774706.4



设备造型结构新颖，采用轻质合金型材加工制作，为周边传动全桥式刮泥机，这种刮泥机传动功率小。总体重量轻，非常轻巧，不失为一种科技含量高的环保产品。我们通过消化吸收形成国产品，立足于国内加工制造，这种刮泥机可适用于城镇污水处理和工业污水处理的一沉池和二沉池。

Made of light alloy material processing for rotation around the whole bridge type mud scraper, this kind of mud scraper rotational power is small. The overall weight is light, very light, can yet be regarded as a kind of high content of science and technology of environmental protection product. Our goods are formed by digestion and absorption, based on the domestic processing and manufacturing, the mud scraper can be adapted to the urban sewage treatment and industrial wastewater treatment of a pond, and the second pond.







## 刮吸泥设备

SLUDGE SCRAPING AND SLUDGE SUCTION EQUIPMENT

## XZXG系列中心传动刮泥机 XZXG SERIES CENTRAL TRANSMISSION MUD SCRAPER



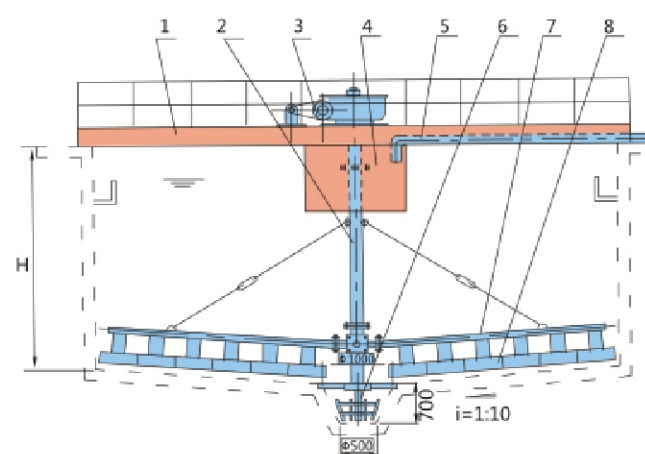
### 设备特点 EQUIPMENT FEATURE

由于本机采用中心传动，平台固定支墩式，比传统机构简单、重量减轻；节约运行费用、维护管理方便；可根据特定的要求配备过扭保护机构，当扭矩值达到设定值时自动报警停机，安全可靠。

The machine adopts transmission center, the platform is fixed buttress type, simple, than the traditional body weight; Save the operation cost, convenient maintenance and management; According to the specific requirements with the torque protection mechanism, when the torque value reaches the set value automatically stopping alarm, safe and reliable.

本机适用于中心无支墩的辐流式或竖流式沉淀池（ $\Phi < 15m$ ）的机械排泥。该机设有横跨池子的固定平台，工作时其整机载荷都作用在工作桥中心。污水经池中心导流筒均匀流向池四周，随着流速的降低，污水中的悬浮物质沉淀于池底，池底刮泥机将沉淀污泥刮集到中心泥坑中，靠静水压力将其从污泥管中排出。

This machine is suitable for the mud discharge from cross type or vertical type sediment pool without central pole. This machine has fixed platform cross the pool, when working, all weight can be on the center of the working bridge. The waste water can flow even around the pool through the flow distributor. Because of the low speed of the flow, the suspended substance in the waste water can be deposited on the bottom of the pool and the mud scraper can collect the mud to the central hole and by the pressure of the static electricity to discharge the sludge through the pipe.



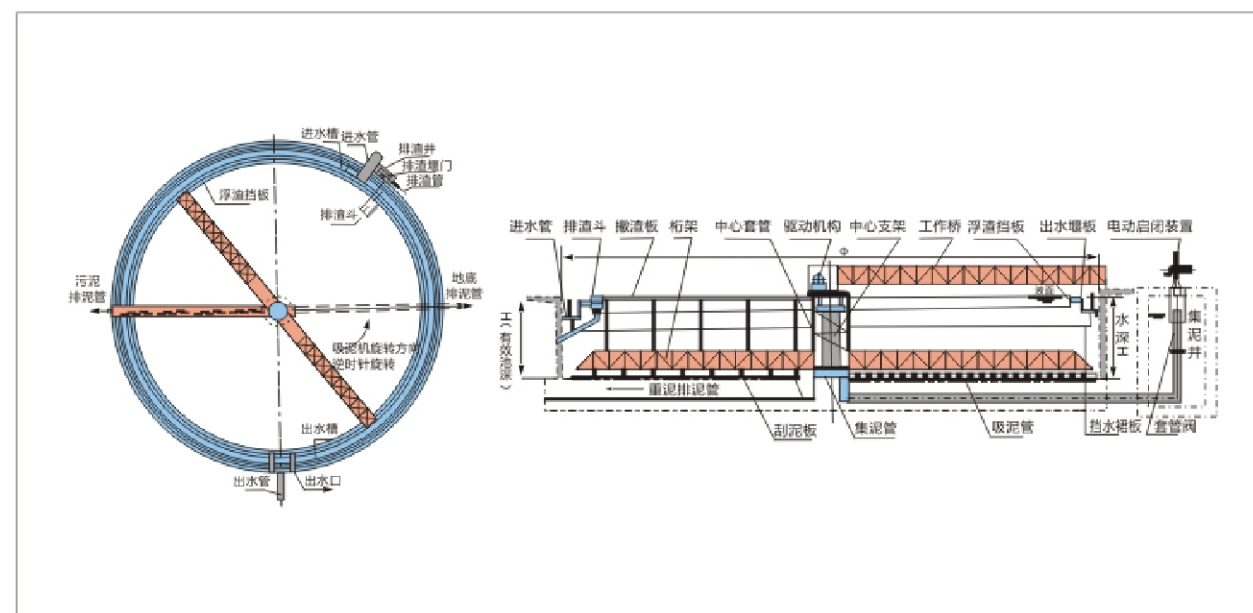
1. 工作桥
2. 刮泥轴
3. 驱动机构
4. 导流筒
5. 进水管
6. 底轴承座和刮板组合
7. 刮臂组合
8. 刮板组合

## XZX系列中心传动吸泥机 XZX SERIES CENTER DRIVE MUD SCRAPER



中心传动单双管式吸泥机主要由中心传动装置、中心竖架、吸泥管、刮渣板、桁架、浮渣刮集装置、工作桥、挡水裙板、浮渣斗等组成。当污泥混合液进入进水槽，由槽底配水管均匀的进入池内，经挡水裙板的作用，水流以异重流的状态缓慢均匀的由周边池底部流向池中心，同时污泥在重力的作用下开始沉降于池底部形成浓度较高的一沉污泥层，分离出来的澄清液则向下部流动反向四周的出水槽经出水管排出池外，池底表层的活性污泥在液位差的作用下，通过吸泥管一侧面的孔口汇集排出池外，重度较大的惰性污泥由刮泥机板刮集至池中心集泥坑，通过排泥管排出池外，池面浮渣通过刮板装置撇入浮渣斗、排出池外。

Center drive single and double tube suction dredge is mainly composed of center gear, shaft frame, suction pipe, scraping slag board, rack, scum collection device, working bridge, when sleeping apron, scum, etc. When the sludge mixture to enter into the tank, the tank bottom hole tube evenly into the pool, under the effect of blocking water apron, heavy flow with different flow state of slow uniform flow by surrounding the bottom pool center, under the action of gravity and sludge sedimentation on the bottom of beginning of the formation of higher levels of a heavy sludge layer, the separated clear fluid flow to the lower part of the reverse the water tank through the outlet pipe drainage around the pool, the bottom surface of the activated sludge in liquid, under the action of sucking pipe side through the orifice discharge outside the pool, heavy larger inert sludge from mud scraper plate set to pool center set mud, through the exhaust pipe you pool, pool surface scum through scraper device left into the cross, discharge outside the pool.







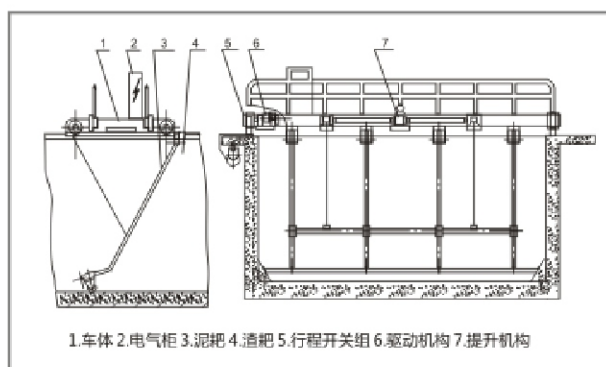
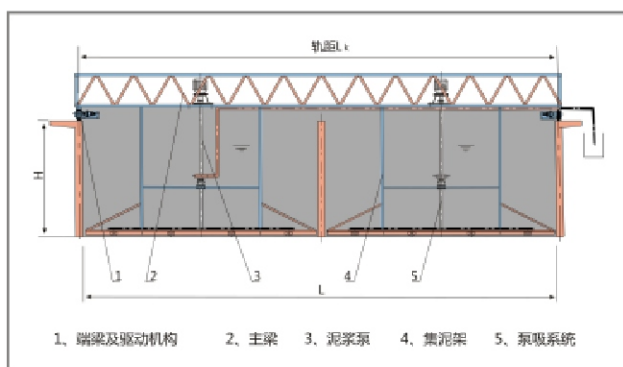
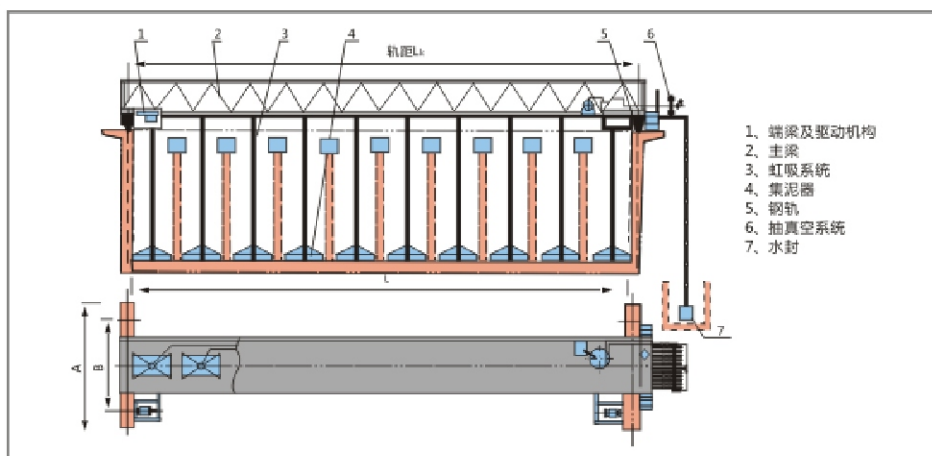
## 刮吸泥设备 SLUDGE SCRAPING AND SLUDGE SUCTION EQUIPMENT

### XHG系列桁车式刮吸泥机 XHG SERIES CRANE MUD SCRAPER



桁车式刮吸泥机广泛用于平流式沉淀池的污泥刮、吸。本刮吸泥机结构紧凑，工作可靠，并配有自动控制和过载保护系统。轨道间距4米以下刮吸泥机采用中间集中驱动。间距6米以上时采用两端同步驱动。

Truss-style Mud Suction Machine is widely used to scrape suck sludge from flow sedimentation basin. This machine is of compact structure, reliable working and equipped with automatic control system and overload protection system. For model of rail interval below 4 meters, it use centralized driving system at middle position. For that of rail interval more than 6 meters, it use synchro-driving at both ends.



### XYH液压往复式刮泥机 XYH HYDRAULIC RECIPROCATING MUD SCRAPER

专利号(Patent No.)  
201821327151.8



#### 结构 STRUCTURE

液压往复式矩形池底刮泥机是一个由液压系统、推杆系统和一些楔形刮板与斜撑等焊接在一起具有往复移动功能的刮泥设备。

Hydraulic reciprocating rectangular bottom scraper is a hydraulic system, blade putter and wedge system and some bracing and other welded together with a reciprocating scraper device functions.

#### 工作原理 WORKING PRINCIPLE

液压往复式刮泥机的工作原理：齿轮油泵向液压油缸提供动力，一组三角架将油缸的垂直运动转换为水平运动、最后带动一组楔形刮板在矩形池池底作往复运动；往复运动的行程大于单根刮板的间距，相当于后一根刮板向前一根刮板传递污泥；刮板组前进的速度大约是后退速度的一半；前进时，楔形刮板的凹面在前、向池子的积泥沟推送积泥；后退时、很小的楔形锐角不会带动污泥向后运动、而快速后退的凹面产生的负压，会使一定厚度的污泥层保持向前运动的惯性。因此、当刮板作往复运动时、池底有一层污泥始终在向前运动，直至跌入积泥沟。当池底积泥达到某一厚度时、刮泥机的效率最高。刮板的往复移动同时具有浓缩污泥的作用（可达3%），这种特性在实际应用中突显重要。当排污量相等时、污泥的浓度越高、其耗水率越低，这样也就减少了水源与能源的损耗。

Works reciprocating scraper: gear pumps to power the hydraulic cylinder, a group of vertical movement of the cylinder tripod will convert horizontal movement, and finally to drive a wedge-shaped blade set in a rectangular pool bottom reciprocated; reciprocating stroke movement is greater than the pitch of a single blade, after one equivalent of a scraper blade forward transfer sludge; speed forward blade group is approximately half the speed of the back; is advanced, the wedge-shaped concave blade before, the product of the pond mud ditch push clogged with mud; while back, a small wedge acute sludge will not drive backwards movement, and the negative pressure generated by the rapid retreat of the concave surface, a certain thickness of the sludge layer will keep the forward movement inertia. Thus, when the blade is reciprocated, the bottom layer of sludge always moves forward, until falling into the plot mud ditch. When the bottom mud accumulation reaches a certain thickness, the maximum efficiency scraper. While reciprocating blade action having a thickened sludge (up to 3%), it highlights the importance of this characteristic in practical applications. When emissions are equal, the higher the concentration of sludge, the lower the water consumption rate, which will reduce water and energy consumption.

该设备是集污泥连续输送与浓缩于一体的液压往复式矩形池底刮泥机。它从第一代钢索拖拉刮板式、第二代桁车走桥吸泥式、第三代链条刮板式演变到现在的第四代液压往复式，液压往复式矩形池底刮泥机具有运动部件少、维护少、污泥连续输送、可靠性高、安装简便、污泥浓缩等特性。往复式刮泥机已成功应用于大量不同型式的污泥沉淀系统，适用范围广。

The device is set sludge concentrated in one continuous conveyor and hydraulic reciprocating rectangular bottom scraper. It drag scraper cable from the first generation, second-generation driving walking bridge suction type, the third generation of the chain scraper now evolved into the fourth generation of hydraulic reciprocating hydraulic reciprocating rectangular bottom scraper having moving parts small, low maintenance, continuous sludge transport, high reliability, ease of installation, sludge thickening and other characteristics. Reciprocating scraper has been successfully applied to a number of different types of sludge sedimentation system, suitable for a wide range.

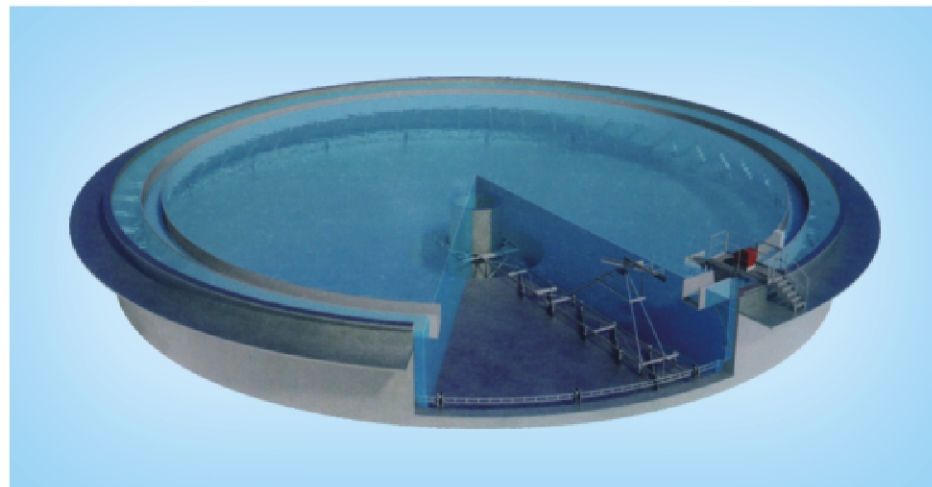






## 刮吸泥设备 SLUDGE SCRAPING AND SLUDGE SUCTION EQUIPMENT

### XYG池下旋转刮泥机 XYG NON-BRIDGE ROUND SLUDGE SCRAPER

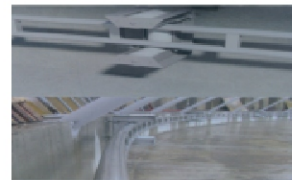


该刮泥机的用途是刮除市政和工业水净化厂中的圆形沉淀池底部的污泥，也可以根据需要来刮除浮渣。该刮泥机适应于现有的池子，无需额外的混凝土施工。

The scraper is used to scrape the sludge out from the bottom of the circular sedimentation tanks of municipal and industrial water purification plant, or to scrape the scum. The scraper is adapted to the existing pond, without additional concrete.



驱动轴和驱动轮  
The drive shaft and the drive wheel



驱动环  
Drive ring



刮板臂装置  
Scraping arm device



中心框架  
Center frame

#### 技术规范 SPECIFICATION

适用范围 Application	市政污水处理厂、工业污水处理、饮用水厂形成的污泥；也可以刮除表面的浮渣。 The sludge from municipal sewage treatment plant, industrial wastewater treatment plant, drinking water plant; the scum in the water surface.
污泥类型 Sludge type	适用于大多数类型的沉淀污泥和浮渣。 Suitable for most types of sediment sludge and scum.
适应水位变化 Water level	表面刮板高度可在±25毫米范围内调节。 Scraper height: ±25 mm.
材料 Material quality	不锈钢ASTM 304L 或耐酸钢ASTM 316L。 Stainless steel ASTM 304L or acid-resistant ASTM 316L.
直径 Diameter	标准尺寸：18—50米。（或根据您的要求） Standard size: 18--50m. (or up to your mind.)

#### 优点 ADUANTAGES

没有桥架，降低经济成本  
无链条轨道，易于运行  
重量轻，动力消耗低  
高度低，易于安装池面封闭顶盖  
磨损少，延长使用寿命  
对沉降过程干扰小，提高刮泥效果  
整体结构易于供电、维护和保养  
对池面顶部混凝土无特殊要求，易于改装  
运行不受天气影响  
易于低成本封闭覆盖地面  
低维护和保养成本

No bridge, lower economic costs  
No chain track, easy to run  
Light weight, low power consumption  
Low profile, easy to install the pool deck lid closed  
Less wear and prolong service life  
Settlement process for interference, improve scraper effect  
The whole structure is easy to supply, service and maintenance  
The top surface of the concrete for the pool, no special requirements, easy to modify  
No weather running  
Ease of low-cost ground cover closed  
Low maintenance and repair costs

### XFJL非金属链条刮泥机 XFJL NONMETALLIC CHAIN SCRAPER



#### 优点 ADUANTAGES

1、刮板块数多，刮泥能力强；刮板的移动速度慢，对污水扰动小，有利于泥砂沉淀。  
2、刮板在池中作连续的直线运动，不必往返换向，因而不需要行程开关。驱动装置设在池顶的平台上，配电及维修都很简单。  
3、不需要另加机构可同时兼作撇渣机。  
4、系统中无重结构部件及支撑件，系统能源消耗低。  
适用于长方形初沉池与二沉池内表面撇渣与底部刮泥操作；圆形池内表面撇渣与底部刮泥操作以及各种池体形状的表面撇渣应用。

1. The number of scrapers is large and the ability of scraping mud is strong. The moving speed of scrapers is slow and the disturbance to sewage is small, which is conducive to the deposition of mud and sand.  
2. The scraper moves in a continuous straight line in the pool, so there is no need to commute back and forth, so there is no need for a stroke switch. The driving device is installed on the platform on the top of the pool, and the distribution and maintenance are very simple.  
3. It can also be used as slag skimmer without additional mechanism.  
4. The system has no heavy structural components and supporting parts, and the energy consumption of the system is low.  
It can be used for slag skimming and bottom mud scraping operation on inner surface of rectangular primary and secondary clarifiers, slag skimming and bottom mud scraping operation on inner surface of circular clarifiers and surface slag skimming application of various tank shapes.







## ZDYA系列带式压滤机 ZDYA SERIES BELT PRESSURE FILTER

专利号(Patent No.)  
201020688456.9



ZDYA系列带式压滤机是消化吸收国外先进技术研制开发的一种脱水设备。具有处理能力大，脱水效率高，使用寿命长等特点。作为污水处理的配套设备，可将气浮处理后的悬浮物及沉渣压滤脱水，压成泥饼，达到防治二次污染的目的；该机还可用于浆料浓缩、黑液的提取等工艺处理。

ZDYA series belt pressure filter are kind of dehydration equipment which is researched and developed by our company with the foreign technology. They have the advantages of large production capacity, high dehydration rate and long life. As the matching equipment of sewage disposal, they can dehydrate the suspended substance and sediment after air-flow processing, and press then into mud cake, so as to prevent the second pollution. They also can be used to concentrate the pulp and extract the black liquor and other fabrication processing.



型号 Model	处理量(m³/h) Throughput	电机功率(kW) Power Of Motor	空压机动率(kW) Air Compressor Power	带宽(mm) Band Width	进浆浓度(%) Inlet Consistency	出浆浓度(%) Outlet Consistency	长(mm) Length	宽(mm) Width	高(mm) Height
ZDYA500	0.5-4	0.75	1.1	500	3-8	25-40	4790	900	2040
ZDYA1000	3-6.5	1.5	2.2	1000	3-8	25-40	5300	1500	2300
ZDYA1500	4-9.5	1.5	3	1500	3-8	25-40	5300	2000	2300
ZDYA2000	5-13	2.2	4	2000	3-8	25-40	5300	2500	2300
ZDYA2500	7-15	4	5.5	2500	3-8	25-40	5300	3000	2300
ZDYA3000	8-20	5.5	5.5	3000	3-8	25-40	5300	3500	2300
ZDYA4000	12-30	7.5	7.5	4000	3-8	25-40	5800	4500	2300

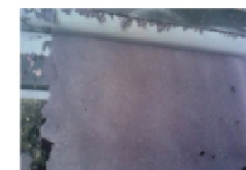
## ZDYA-II 三网污泥浓缩脱水一体机 ZDYA-II THREE NETS AND SLUDGE THICKENING AND DEWATERING MACHINE

专利号(Patent No.)  
201320475909.3



ZDYA-II 型三网污泥浓缩脱水一体机是一种新型高效连续运行的固液分离设备。它以聚酯网作为过滤介质，能把经过预处理含水率在99.5以下的各种悬浮液，经过多级压榨脱水成泥饼状（其脱水后含水率随不同物料而异）。

本产品适用于城市污水产生的混合污泥、消化污泥和剩余活性污泥的脱水；也广泛用于冶金、矿山、化工、造纸、印染、皮革、电镀、酿造、煤炭、制糖等工业产生的各类污泥脱水。尤其是对活性污泥、冶金污泥、浮选精矿、尾矿（煤）脱水效果更佳。本产品是我公司根据国外最先进污泥脱水技术，并在引进消化吸收德国KLEIN公司、奥地利安德里茨公司、法国EMO公司机型基础上，改进研制成功的新一代带式压榨过滤机。



造纸行业应用现场  
Paper making industry scene



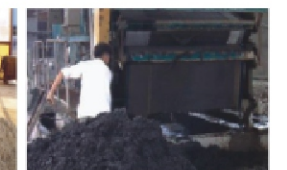
稀土行业应用现场  
Rare earth industry scene



印染行业应用现场  
Dyeing industry scene



陶瓷行业应用现场  
Ceramic industry scene



煤炭行业应用现场  
Coal industry scene

ZDYA-II sludge thickening dehydrates a body machine is one kind of new highly effective continuous running liquid-solid splitter. It takes the filter medium by the polyester net, can pass through the pretreatment moisture content in 99.5 below each kind of suspending liquid, after passing through multistage squeezing dehydrate the putty caky (its dehydration, moisture content along with different material, but different).

This product is suitable for the mix sludge which, the digested sludge and the residual activity sludge dehydration produces in the urban sewer; Also widely uses in the metallurgy, the mine, the chemical industry, the papermaking, the printing, the leather, the galvanization, brewing each kind of sludge dewatering which, industries and so on coal, sugar manufacturing produce. Especially to the active sludge, the metallurgy sludge, the flotation concentrate, the debris (coal) dehydrates the effect to be better.

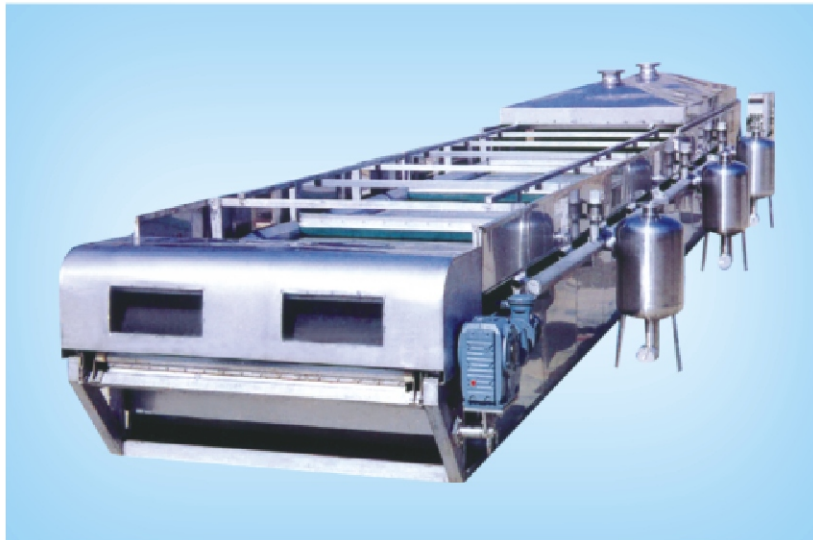
型号 Model	ZDYA-II-500	ZDYA-II-650	ZDYA-II-1000	ZDYA-II-1500	ZDYA-II-2000	ZDYA-II-2500	ZDYA-II-3000	ZDYA-II-4000
驱动电机功率(kW) Power of motor	1.1	1.1	2.2	3	3	4	5.5	7.5
空压机电率(kW) Air Compressor Power	1.5	2.2	2.2	3	4	5.5	5.5	7.5
带宽(mm) Band Width	500	650	1000	1500	2000	2500	3000	4000
处理量(m³/h) Throughput	0.5-3.0	1.5-4.5	3-6.5	4-9.5	5-13	7-16	8-20	12-30
外形尺寸 Appearance Size	长(mm) Length	5260	5260	5260	5260	6200	7200	7800
	宽(mm) Width	1080	1230	1580	2170	2650	3125	3623
	高(mm) Height	2550	2550	2550	2550	2550	2600	3100





## 污泥脱水设备 SLUDGE DEWATERING EQUIPMENT

### XZKG系列连续带式真空过滤机 XZKG SERIES RUNNING BELT VACUUM FILTER



型号 Model	过滤面积(m²) Filtering Area	过滤有效宽度(mm) Filter Effective Width	过滤有效长度(mm) Filter Effective Length	整机总长(mm) Total Length	机身宽度(mm) Machine Width	机身高度(mm) Machine Height	真空耗量 (m³/min)
XZKG-400	1.0	400	2500	4500	1000	1650	2
XZKG-1300	7.3	1300	5600	9800	1800	2060	14
	9.1		7000	11200			18
	10.9		8400	12600			22
	14.6		11200	15400			25
	18.2		14000	18200			28
XZKG-1800	20.0	1800	15400	20000	~2430	2180	30
	20.0		11200	15100			30
	25.0		14000	17900			36
XZKG-2000	30.0	2000	16800	20000	~2700	2180	40
	20.0		10000	14200			30
	25.0		12500	16700			36
	29.0		14000	19500			38
XZKG-2500	33.6	2500	16800	22300	~3200	2450	42
	39.2		19600	25100			55
	25.0		10000	14200			36
	30.0		12000	16200			40
	35.0		14000	18200			45
	42.0		16800	22300			60
XZKG-3150	49.0	3150	19600	25100	~3650	2450	70
	56.0		22400	27900			85
	61.7		19600	25100			100
	70.6		22400	27900			123
	79.4		25200	30700			141

带式真空过滤机以滤布为过滤介质，是充分利用物料重力和真空吸力实现固液分离的高效分离设备。采用整体的环形橡胶带作为真空室。环形胶带由电机拖动连续运行，滤布铺敷在胶带上与之同步运行，胶带与真空滑台上环形摩擦带接触并形成水密封。料浆由布料器均匀地布在滤布上。当真空室接通真空系统时，在胶带上形成真空抽滤区，滤液穿过滤布经胶带上横沟槽汇总并由小孔进入真空室，固体颗粒被截留在滤布上形成滤饼。进入真空室的液体经汽水分离器排出，随着橡胶带的移动，已形成滤饼依次进入滤饼洗涤区和洗干区，最后滤布与胶带分开，在卸料辊处将滤饼卸出。卸除滤饼的滤布经清洗后获得再生，再经过一组支承辊和纠偏装置后重新进入过滤区，开始进入新一过滤期。

This machine has the filtration fabric as the filtration media, it is a high efficient separating machine to use the material gravity and vacuum pull to separate the liquid and the solid. It has a vacuum room made of whole circling belt that is dragged working by the motor and the filtering fiber works as it to make a circle friction and form a water sealing. The sizing agent can be distributed even on the filter fiber by the distributing device. When the vacuum room touches the vacuum system, it will create a vacuum space up the tape. The filtering liquid will be into the vacuum through the hole on the belt and the solid grain will be left on the filter fiber and become the filter mass. The water entering into the vacuum room can release through the gas and water separator. As the movement of the belt, the filter mass can go forward to the washing area and the dry room. finally the filter fiber separates from the belt, the filter mass discharges on the unload area. The filter fiber can be use again after washing and go through one group of supporting bearing and correcting device to work again.

### XB(X)<sub>A</sub><sup>M</sup>板框式污泥压滤机 XB(X)<sub>A</sub><sup>M</sup> PLATE TYPE PRESS FILTER

专利号(Patent No.)  
202122282801.X



板框式压滤机是一种间歇性固液分离设备，是由滤板、滤框排列构成滤室，在输料泵的压力作用下，将料液送进各滤室，通过过滤介质，将固体和液体分离。广泛应用于化工、染料、石油、陶瓷、制药、制糖、食品、淀粉、饴糖、油漆、冶金及各行业的污水处理等。具有分离效果好、适用范围广、操作简单、投资省等优点，特别是对粘细物料的分选，有着不可比拟的优越性。

This machine is one kind of batch type separation machine that made up of filter board, filter frame to be a filter room. under the press of the pump, the material will be conveyed to the filter rooms to separate the liquid and the solid by the filter media. It is widely used for waste water processing in chemical, dyeing, petroleum, ceramics, medicine, sugarmaking, food and starch, paint, metallurgy. It works well because of wide usage, easy operation, costly investment, especially for the separation of the tiny substance, it has great superiority.

#### 机械压紧板框压滤机技术参数 TECH DATA OF MECHANICAL PRESS FILTER

规格 Specification	过滤面积m² Filter Area	框内尺寸mm Frame Size	滤饼厚度mm Filter Mass Thickness	滤板数量 Filter Board Quantity	滤框数量 Filter Frame Quantity	滤室容积L Filter Room Volume	外形尺寸mm Appearance Size	过滤压力MPa Filter Pressure	电机功率kW Power
15/630	15	630×630	30	18	19	226	2820×1110×1190	0.6	2.2
30/630	30	630×630	30	37	38	452	3960×1110×1190	0.6	2.2
50/800	50	800×800	30	38	39	748	4615×1260×1350	0.6	3.0
80/800	80	800×800	30	62	63	1210	6295×1260×1350	0.6	3.0

#### 机械压紧厢式压滤机技术参数 TECH DATA OF MECHANICAL THEATER BOX FILTER

规格 Specification	过滤面积m² Filter Area	框内尺寸mm Frame Size	滤饼厚度mm Filter Mass Thickness	滤室容积L Filter Room Volume	滤板数量 Filter Board Quantity	外形尺寸mm Appearance Size	过滤压力MPa Filter Pressure	电机功率kW Power
15/630	15	630×630	30	226	18	2700×1060×1150	0.6	2.2
50/800	50	800×800	30	748	38	3990×1270×1300	0.6	3
80/1000	80	1000×1000	30	1219	46	4760×1400×1400	0.6	3
120/1000	120	1000×1000	30	1816	69	6140×1400×1400	0.6	3





## 污泥脱水设备 SLUDGE DEWATERING EQUIPMENT

### 叠螺式污泥脱水机 STACKED SPIRAL SLUDGE DEWATERING MACHINE



叠螺式污泥脱水机集全自动控制柜、絮凝调质槽、污泥浓缩脱水本体及集液槽于一体，可在全自动运行的条件下，实现高效絮凝，并连续完成污泥浓缩和压榨脱水工作，最终将收集的滤液回流或排放。

设备运行时，污泥从进料口进入滤筒后受到螺旋轴旋片的推送而向卸料口移动，由于螺旋轴旋片之间的螺距逐渐缩小，因此污泥所受的压力也随之不断增大，并在压差作用下开始脱水，水分从固定板与活动板的过滤间隙流出，同时设备依靠固定板和活动板之间的自清洗功能，清扫过滤间隙防止堵塞，泥饼经过充分的脱水后在螺旋轴的推进作用下从卸料口排出。

#### 通用型叠螺污泥脱水机 Universal folding screw sludge dewatering machine

规格 Specification	活性污泥处理能力	主轴规格	设备规格		
	kg-DS/Hr	数量×直径	长mm	宽mm	高mm
DL131	6-10	1×130mm	2220	770	1400
DL132	12-20	2×130mm	2220	950	1400
DL133	24-30	3×130mm	2220	1300	1400
DL201	9-15	1×200mm	2240	780	1400
DL202	18-30	2×200mm	2440	1000	1400
DL203	27-45	3×200mm	2440	1450	1500
DL301	36-50	1×300mm	2600	940	1500
DL302	72-100	2×300mm	2600	1400	1500
DL303	108-150	3×300mm	2600	1980	1500

#### 大型叠螺污泥脱水机 A large stack of sludge dewatering machine

规格 Specification	活性污泥处理能力	主轴规格	设备规格		
	kg-DS/Hr	数量	长mm	宽mm	高mm
DLL-1	50-130	1	4000	1040	1800
DLL-2	100-260	2	4000	1250	1800
DLL-3	150-390	3	4000	1870	1800
DLL-4	200-520	4	4000	2500	1800

### XWL卧螺离心脱水机 XWL SETTLEMENT CENTRIFUGE DECANTER



XWL卧螺离心脱水机主要由转鼓和带空心转轴的螺旋输送器组成，污泥由空心转轴送入离心脱水机转筒后，在高速旋转产生的离心力作用下，立即被甩入转鼓腔内。污泥颗粒比重较大，因而产生的离心力也较大，被甩贴在转鼓内壁上，形成固体层；水密度小，离心力也小，只在固体层内侧产生液体层。固体层的污泥在螺旋输送器的缓慢推动下，被输送到转鼓的锥端，经转鼓周围的出口连续排出，液体则由堰四溢流排至转鼓外，汇集后排出脱水机。

XWL Decanter Centrifuge mainly by sedimentation and reproduced with the hollow shaft of the screw conveyor formed by the hollow shaft into the sludge dewatering machine drum, in high-speed rotation of the centrifugal force, were immediately transferred hub cavity left behind inside. A larger proportion of the sludge particles, the resulting centrifugal force is also large, been left attached to the switch hub wall, the formation of the solid layer; water density, centrifugal force is also small, resulting only in the solid layer inside the liquid layer. Solid layer of sludge in the screw conveyor driven by the slow, was transported to the end cone reprinted, reproduced by the continuous discharge of the export around the liquid discharge from the overflow weir to four reproduced, the collection discharge after the dryer.

型号 Model	长径比 Length-D Ratio	最高转速 [r/min] Max speed	分离因数 separation factor	电机功率 [kW] Motor Power	生产能力 [m <sup>3</sup> /h] Max solid discharge rate	最大排液力 [m <sup>3</sup> /h] production capacity	外形尺寸 (mm) (L×W×H) outline dimension	整机重量 (kg) weight	差速器 differential (planet gear)
XWL-350×1100	3.2	2800	2533	22.7.5	5-10	1.5	2100×1200×750	1400	行星齿轮
XWL-350×1250	3.6	2800	2533	22.7.5	7-12	1.6	2250×1200×750	1700	行星齿轮
XWL-350×1600	4.5	2800	2533	22.7.5	9-14	1.7	2600×1200×750	2000	行星齿轮
XWL-450×1300	2.8	2400	2448	30.11	10-18	2.3	2300×1250×900	2200	行星齿轮
XWL-450×1650	3.6	2400	2448	30.11	12-20	2.4	2650×1250×900	2400	行星齿轮
XWL-450×1950	4.3	2400	2448	30.11	14-22	2.5	2950×1250×900	2600	行星齿轮
XWL-550×1650	3	2200	2284	37.11	13-26	2.9	2650×1400×1100	2800	行星齿轮
XWL-550×1950	3.5	2200	2284	37.11	15-28	3.0	2950×1400×1100	3000	行星齿轮
XWL-550×2200	4	2200	2284	37.11	17-30	3.2	3250×1400×1100	3200	行星齿轮
XWL-650×2100	3.2	2000	2050	45.15	22-35	4.0	3100×1550×1350	3600	行星齿轮
XWL-650×2300	3.5	2000	2050	45.15	24-36	4.2	3200×1550×1350	3800	行星齿轮
XWL-650×2500	3.8	2000	2050	45.15	26-38	4.4	3500×1550×1350	4000	行星齿轮

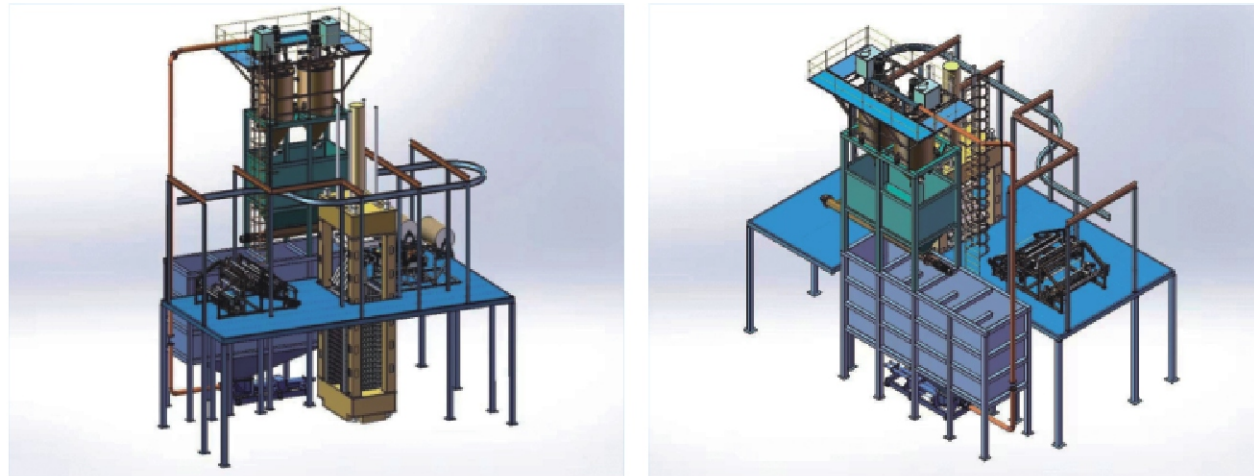




## 污泥脱水设备 SLUDGE DEWATERING EQUIPMENT

### 超高压叠层压滤深度脱水设备 ULTRA-HIGH PRESSURE LAMINATED FILTER PRESS DEEP DEHYDRATION EQUIPMENT

专利号(Patent No.)  
202122298379.7



#### 设备概述 EQUIPMENT OVERVIEW

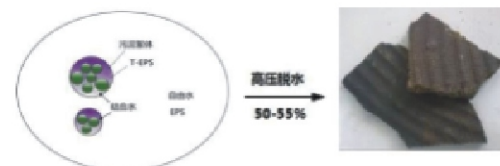
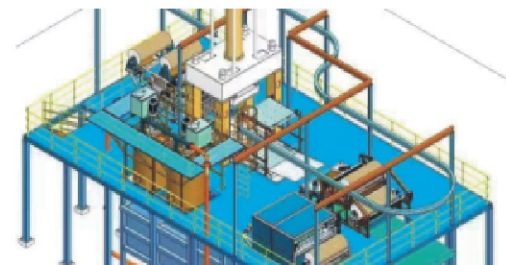
新型超高压污泥深度脱水设备，解决了现有传统脱水难点，将含水率85%-90%的污泥脱水后直接降至50%，把污泥减量化一站式进行到底，脱水后的污泥减重、减容、减盐同时提升了热值。不需添加石灰等辅料，能耗运行成本低，效率高，流程短，占地面积小，工艺国内领先，彻底解决企业环保难题，工艺能耗低、大大降低运行成本，有效实现碳中和、碳减排、减污降碳协同增效，加快推进污设备化利用。

The new ultra-high pressure sludge deep dehydration equipment has solved the existing traditional dehydration difficulties, directly reducing the water content of sludge from 85% to 90% to 50% after dehydration, and carrying out the sludge reduction in a one-stop manner. The weight reduction, volume reduction and salt reduction of the dewatered sludge have increased the calorific value at the same time. No need to add lime and other auxiliary materials, low energy consumption and operation cost, high efficiency, short process, small floor area, and domestic leading technology. Thoroughly solve the environmental protection problems of enterprises, low process energy consumption, greatly reduce the operation cost, effectively achieve carbon neutralization, carbon emission reduction, and pollution reduction synergy, and accelerate the use of sewage equipment.

#### 设备优点 EQUIPMENT ADVANTAGES

- 1、污泥脱水性能技术经济指标国内领先。
- 2、系统运行高效、稳定、可靠、耐用、维护保养简单便捷。
- 3、设备标准化、系列化、规范化程度高。
- 4、同规模污泥脱水处理量占地面积最小。
- 5、臭气产生量最少。
- 6、最优的污泥处理中间环节，后续污泥最终处置出路最广泛。

1. The technical and economic indicators of sludge dewatering performance are leading in China.
2. The system is efficient, stable, reliable, durable and easy to maintain.
3. The equipment is highly standardized, serialized and standardized.
4. The sludge dewatering capacity of the same scale covers the smallest area.
5. Odor generation is the least.
6. The optimal intermediate link of sludge treatment and the final disposal of subsequent sludge are the most extensive.



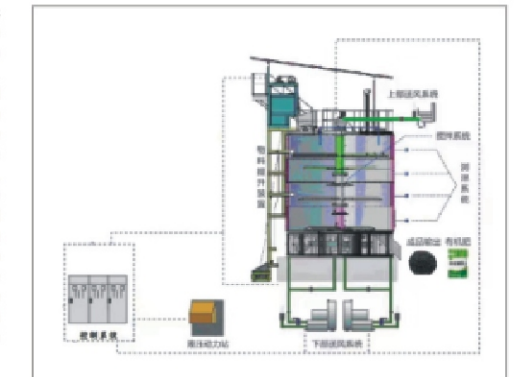
### 畜禽粪污好氧发酵罐 AEROBIC FERMENTATION TANK FOR LIVESTOCK MANURE

#### 设备概述 EQUIPMENT OVERVIEW

畜禽废弃物无害化处理设备采用好氧微生物有氧发酵原理，使微生物利用畜禽粪便和尸体中的有机质、残留蛋白等，在一定温度、湿度和充足氧气环境状态下，快速繁殖。繁殖过程中，它们消耗粪便和尸体中的有机质、蛋白和氧气，代谢产生氨气、CO<sub>2</sub>和水蒸气。同时释放大量的热量，使罐内温度升高。在45℃~70℃进一步促进微生物生长代谢，同时60℃以上的温度可杀灭粪便、尸体中的有害细菌和病原体、寄生虫卵等有害物质，同时平衡有益菌存活温度、湿度和PH值，满足有益菌生存条件，随着新鲜畜禽粪便和尸体的加入，罐内微生物循环持续繁殖，从而实现对畜禽废弃物的无害化处理。处理过的熟料可以直接作为肥料使用也可以作为原料生产复合有机肥，彻底解决畜禽粪便和尸体对环境的污染问题，确保养殖行业规模化、绿色可持续发展。



The harmless treatment equipment of livestock and poultry waste adopts the aerobic fermentation principle of aerobic microorganism, which enables the microorganism to use the organic matter and residual protein in livestock and poultry feces and carcasses to rapidly reproduce under certain temperature, humidity and sufficient oxygen environment. During reproduction, they consume organic matter, protein and oxygen in feces and corpses, and metabolize to produce ammonia, CO<sub>2</sub> and water vapor. At the same time, a large amount of heat is released to increase the temperature in the tank. The temperature of 45 °C ~ 70 °C can further promote the growth and metabolism of microorganisms. At the same time, the temperature above 60 °C can kill the harmful bacteria and pathogens, parasitic eggs and other harmful substances in feces and carcasses. At the same time, the temperature, humidity and PH value for the survival of beneficial bacteria can be balanced to meet the conditions for the survival of beneficial bacteria. With the addition of fresh livestock and poultry feces and carcasses, the microorganisms in the tank can continue to reproduce, so as to realize the harmless treatment of livestock and poultry waste. The processed clinker can be used directly as fertilizer or as raw material to produce compound organic fertilizer, which can thoroughly solve the environmental pollution problem caused by livestock manure and carcasses, and ensure the large-scale, green and sustainable development of the aquaculture industry.



#### 设备优点 EQUIPMENT ADVANTAGES

- 1、设备体积小，可室外安装，不需要厂房，是可移动式处理工厂，解决了厂房建设、远距离运输、集中处理的高额成本问题；
- 2、密封式处理，脱臭99%，无污染；
- 3、保温好，不受季节寒冷限制，在零下5摄氏度环境正常发酵处理；
- 4、发酵周期约6-8天，处理能力可根据需要增加多台安装；
- 5、罐体三层结构，内层304不锈钢，材质好，解决强酸强碱腐蚀问题，使用寿命长达10年以上；
- 6、操作管理简单，PLC自动控制，投入畜禽粪便等原料，自动产出有机肥料，易学易操作；
- 7、耗能低，单台设备平均每小时耗电量约21-26KW左右；
- 8、高温菌种可在-25℃-70℃存活和繁殖，形成的有益菌群可杀死原料中的有害菌，这一特点使其它有机肥料无法比拟和超越。

1. The equipment is small in size, can be installed outdoors, and does not need a workshop. It is a mobile processing plant, which solves the high cost problems of workshop construction, long-distance transportation, and centralized processing;
2. Sealed treatment, deodorization 99%, pollution-free
3. Good heat preservation, free from seasonal cold, and normal fermentation treatment at minus 5 °C
4. The fermentation cycle is about 6-8 days, and the processing capacity can be increased by several sets as required
5. The tank body has a three-layer structure, and the inner layer is 304 stainless steel, which is made of good material and can solve the problem of strong acid and alkali corrosion, with a service life of more than 10 years;
6. Simple operation and management, PLC automatic control, input livestock manure and other raw materials, automatically produce organic fertilizer, easy to learn and operate;
7. Low energy consumption, the average power consumption of a single device is about 21-26KW per hour;
8. High-temperature bacteria can survive and reproduce at -25 °C ~ 70 °C, and the beneficial bacteria formed can kill harmful bacteria in raw materials, which makes other organic fertilizers incomparable and superior.





## XTG陶瓷真空过滤机 XTG CERAMIC VACUUM FILTER

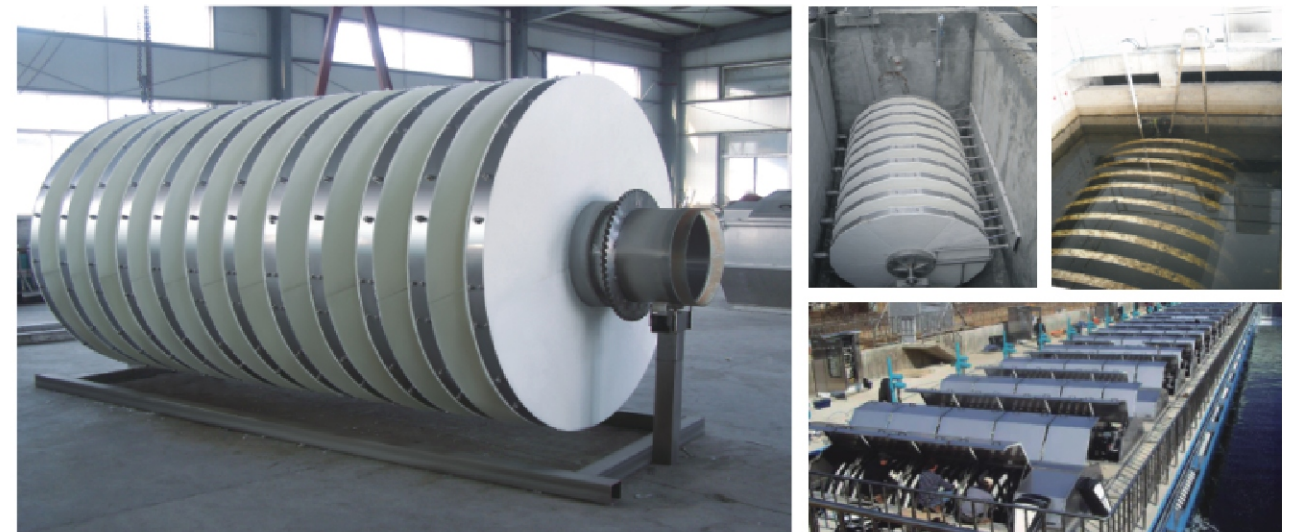


我公司生产的陶瓷真空过滤机是一种高效、节能的液固分离设备，其设计先进，结构合理，是集机电、微孔陶瓷滤板、超声波清洗，自动化控制等高新技术于一体的高科技产品，它采用“透水不透气”的多孔陶瓷过滤板作为过滤介质，使过滤过程的真空度达到0.096—0.097MPa以上，从而保证其良好的脱水效果，可广泛应用于金属矿山、化工、食品、煤炭、医药、环保等行业，过滤物粒径为0.2 $\mu$ m—3mm，尤其适用于砂性料的固液分离，对于粘性料将通过调整浆液性能而使其具有良好的脱水效果。

Our company produces ceramic vacuum filter is an efficient, energy-efficient liquid-solid separation equipment, and its advanced design, reasonable structure, is a mechanical and electrical, porous ceramic plate, ultrasonic cleaning, automation control, high-tech high-tech product, which uses "permeable gas-tight" as a porous ceramic filter plate filter media, so that the vacuum filtration process to reach 0.096 a 0.097MPa above, in order to ensure its good effects of dehydration, can be widely used in metal mining, chemical, food, coal, medicine and environmental protection industries, filter material particle size of 0.2 $\mu$ m-3mm, especially for sandy material of solid-liquid separation, the viscosity is expected to make it by adjusting the slurry has a good performance and dehydration.

型号 Model	XTG-1	XTG-3	XTG-8	XTG-12	XTG-20	XTG-24	XTG-30	XTG-36	XTG-45	XTG-60
过滤面积(m <sup>2</sup> ) Filter area	1	3	8	12	20	24	30	36	45	60
滤盘数量 The number of filter plate	1	3	4	6	10	8	10	12	15	20
滤板数量 Number plate	12	36	48	72	120	96	120	144	180	240
装机功率(kW) Installed power	<6	<8	<8	<9	<11	<14	<20	<23	<28	<35
滤盘转速(r/min) Filter rotation speed	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5
真空泵功率(kW) Pump power	1.65	1.65	1.65	3.8	3.8	3.8	5.5	5.5	5.5	7.5
搅拌装置(kW) Agitator	<2.5	<2.5	<2.5	<2.5	<3.5	<3.5	<5.5	<5.5	<7.5	<11
主电机(kW) Spindle motor	<0.75	<1.6	<1.6	<1.6	2.2	2.2	2.2	2.2	4	5.5
运行功率(kW) Operating power	<5.0	<7.0	<7.0	<7.5	<10	<12	<15	<18	<18	<25
长(m) Length	1.5	2.0	3.0	3.2	5.0	5.2	5.8	6.5	7.5	8.0
宽(m) Width	1.6	1.6	2.3	2.3	2.3	3.0	3.0	3.0	3.0	3.3
高(m) High	1.5	1.5	2.2	2.2	2.2	2.65	2.65	2.65	2.65	3.0

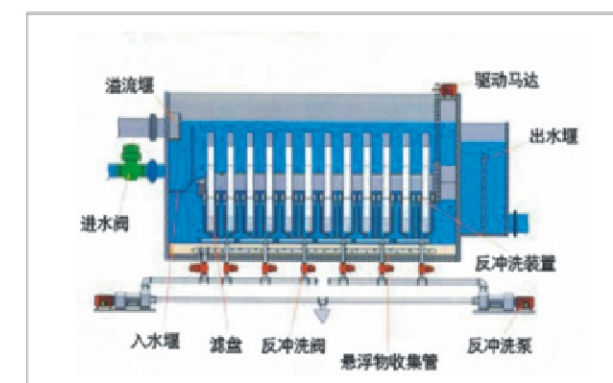
## XWXG纤维转盘过滤机 XWXG FIBER ROTARY FILTER



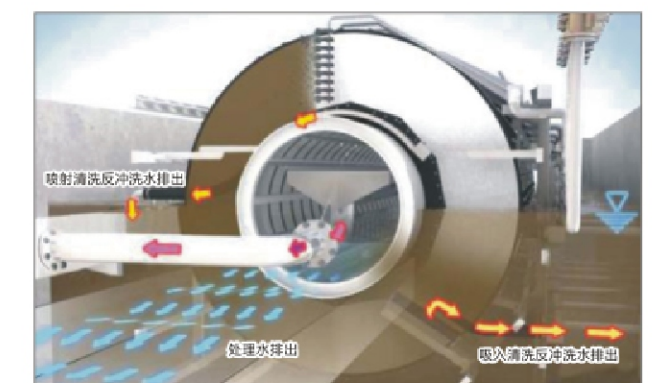
设备过滤组件由若干片平行立于池体中的滤盘组成。滤布包裹在滤盘的外部，滤布采用新型纳米纤维材料制成，具有通量大，杂质不易黏附的特点。过滤介质平均网孔直径小于10 $\mu$ m，有效过滤深度大于3mm。由于进水口位置高于出水口，因此过滤过程无需额外动力，污水通过进水堰板进入滤池，在重力作用下通过滤布。过滤时滤布绒毛倒伏平铺，增加过滤深度，孔径达到微米级，可截留粒径为几微米的微小悬浮物，因此出水水质稳定。污水通过滤布的过滤，滤后水进入滤盘内部，通过滤盘中心转鼓流入可调式出水堰。出水堰可以通过调整进出水的液位差来调整出水量，以满足各种不同粘度污水的处理要求。整个过滤进程中，滤盘与吸盘均保持静止，过滤为24小时连续进行。

The equipment is composed of a plurality of parallel filtering components in the filter plate in the pool body. Cloth wrapped outside of the filter plate of the filter cloth, the new nano fiber material made with large flux and impurities are not easy to adhesion characteristics. The filter medium average mesh diameter less than 10 $\mu$ m, the effective filtration depth is more than 3mm. Because of the position of the water inlet is higher than the water outlet, the filtering process without the need for extra power, sewage through the water inlet weir plate into the filter, under the action of gravity via the cloth. Filter cloth villi lodging tiling, increase the filtration depth and aperture to achieve micron level can be entrapped particle sizes of a few microns small suspended solids, therefore, stable water quality of effluent. Sewage through the filter filter, the filtered water enters into the filter plate, adjustable weir flows through a filter disk swap center. The weir can be by adjusting the import and water level difference to adjust the water, to meet a variety of different viscosity sewage treatment requirements. The filtration process, filter plate with suction cup remained stationary for 24 hours of continuous filtration.

### 设备结构图 EQUIPMENT STRUCTURE DRAWING



### 工作原理图 WORKING PRINCIPLE DIAGRAM







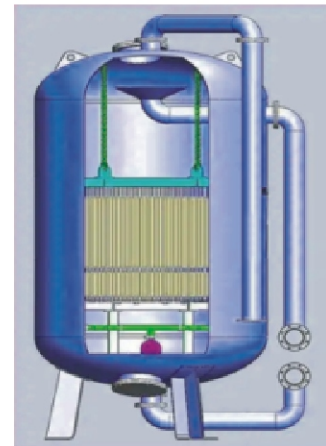
## 过滤设备 FILTRATION EQUIPMENT

### XGL高效纤维球过滤器 XGL HIGH EFFICIENT FIBER BALL FILTER

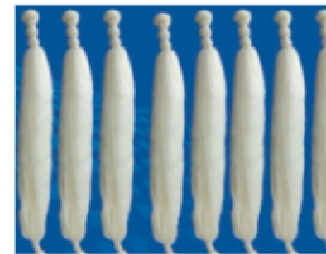
专利号(Patent No.)  
201721552403.2



XGL高效纤维球过滤器是引进深层过滤技术,经过多年实践研制的新型节能型水处理器。它采用束装纤维或纤维球为过滤器的滤料,该滤料是由纤维丝扎结而成,它与传统的颗粒滤料相比具有弹性效果好,不上浮水面,空隙大,工作周期长,水头损失小等优点。在过滤过程中,滤层空隙沿水流方向逐渐变小,比较符合理想滤料由上到下小的空隙分布,效率高,滤速快(30-40m/h),截污容量大,过滤效果好,可再生,并且再生更彻底。



高效纤维束过滤器  
HIGH-EFFICIENCY FIBER BUNDLE FILTER



XGL high fiber ball filter is the introduction of deep bed filtration technology, developed after years of practice, new energy-efficient water processor. It is loaded with fiber or fiber bundle the ball for the filter media, the media statement made by the fiber Sizha it compared with the traditional particle filter has the flexibility effect, do not go up the water, large gaps, work long cycle, the advantages of small head loss. In the filtering process, the filter layer along the flow direction of the gap became smaller, more in line with the ideal filter by the big gap under the distribution of small, high efficiency filtration rate fast (30-40m/h), interception capacity, filtration Good, renewable, and recycled more thorough.

规格型号 Model	处理量(m³/h) Processing volume	功率(kw) Power	a过滤进水 反洗出水 a water filter Backwash water	b过滤出水 反洗进水 b water filter Backwash water	C排气 C exhaust	过滤面积(m²) Filtering area	地基载荷(t/m²) Ground load
XGL-800	15	4	DN50	DN50	DN25	0.502	3.2
XGL-1000	20	4	DN65	DN65	DN32	0.785	3.0
XGL-1200	30	4	DN80	DN80	DN32	1.131	3.2
XGL-1600	60	5.5	DN100	DN100	DN32	2.011	3.8
XGL-2000	90	11	DN125	DN125	DN32	3.14	4.2
XGL-2400	130	18.5	DN150	DN150	DN40	4.52	4.4
XGL-2600	160	18.5	DN150	DN150	DN40	5.306	4.5
XGL-2800	180	22	DN200	DN200	DN40	6.154	4.7
XGL-3000	210	22	DN200	DN200	DN40	7.065	4.9

### XHG系列核桃壳过滤器 XHG SERIES WAL NUT SHELL FILTER

专利号(Patent No.)  
202020454754.5



过滤是去除水中悬浮物最有效的手段,然而对于含油污水采用一般过滤工艺效果甚微。XHG型核桃壳过滤器是为处理含油污水而开发的新型过滤设备,适用油田与其它含油污水的过滤。现已在各个行业的含油污水处理工程中发挥了巨大的作用。

The filter is to remove suspended solids in water is the most effective means, but for oily wastewater using general filtration process has little effect. XHG type walnut shell filter is a new filtration equipment for dealing with sewage and development, application field and other oily sewage filter. Played a huge role in various sectors of the oily wastewater treatment engineering.

#### 应用特点 FEATURE

该产品采用经特殊加工后的核桃壳为过滤介质具有较强的吸附能力,并且滤料能反洗再生,抗压能力强(23.4kgf/cm²),化学性能稳定(不易在酸、碱溶液中溶解),硬度高。耐磨性好、长期使用不需要更换,吸附截污能力强(吸附率(25-53%)、亲水性好、抗油浸。因该滤料比重略大于水(1.225g/cm³),反洗再生方便,其最大特点就是直接采用滤前水反洗,且无需借助气源和化学药剂,运行成本低、管理方便、反冲洗强度低、效果好、滤料不易腐烂、经久耐用、并可根据水质要求,采用单级或双级串联使用。

This product adopts the special processing of the walnut shell filter media has a strong adsorption capacity, and to back wash filter, compressive ability (23.4kgf/cm²), stable chemical property (not easy to dissolve in acid, alkali solution), high hardness. Good abrasion resistance, long-term use does not need to be replaced, adsorption interception capability [adsorption rate (25-53%), good hydrophilicity, anti oil. Because of the filter is slightly greater than the proportion of water (1.225g/cm³), backwashing and regeneration is convenient, its biggest characteristic is directly used before the filter water backwashing, and without the help of gas and chemicals, low running cost, convenient management, backwashing strength low, effect is good, the filter is not perishable, durable, and according to the water quality requirement, single or double level used in series.

型号 Model	处理量(m³/h) Capacity	筒体直径(mm) Diameter	过滤面积(m²) The filter area	配泵型号 Pump model	扬程(mm) Lift	功率(kw) Power	搅拌机功率(kw) Mixer power
XHG-800	10	800	0.500	IS50-32-200A	35	4	
XHG-1000	20	1000	0.785	IS65-40-200A	38	5.5	4
XHG-1200	30	1200	1.13	IS80-65-160A	35	7.5	
XHG-1600	50	1600	2.010	IS80-50-200	45	15	5.5
XHG-2000	80	2000	3.140	IS100-65-200A	38	18.5	11
XHG-2400	110	2400	4.520	IS100-65-200	45	22	20
XHG-2600	130	2600	5.306	IS150-125-400A	38	37	22
XHG-2800	150	2800	6.154	IS150-125-400A	38	37	30
XHG-3000	160	3000	7.065	IS150-125-315	32	30	30





## 过滤设备 FILTRATION EQUIPMENT

## XJG系列机械过滤器 XJG SERIES MECHANICAL FILTER

专利号(Patent No.)  
201320774595.7



XJG机械过滤器是将需过滤的水经泵升压后(约0.6MPa)通过滤层达到过滤目的,石英砂过滤可用于离子交换法软化、除盐系统的预处理,反渗透装置的前置过滤;生活、工业废水过滤处理及水质要求不高的工业给水粗过滤及游泳池水过滤等,滤料粒度规格视水质要求而定。

XJG mechanical filter is to filter the water to be post-boost by the pump (about 0.6MPa) filtered through filter layer to reach the purpose, quartz sand filter can be used for ion exchange softening, demineralization system, pretreatment, reverse osmosis equipment pre-Filtration; life, industrial wastewater treatment and water filtration industrial water supply crude less demanding and swimming pool water filtration filter, filter size specifications as the water requirements.

### 应用范围 APPLICATION

广泛应用于食品、医药、电子、化工等行业的水处理工程中,是中水回用处理中的后续处理设备,也是水处理过程中的预处理设备,用于防止水中污染物对后续设备的污染,也可用于改善水的气味和色度。

Are widely used in food, medicine, electronics, chemical industry, water treatment projects, water reuse is handled in subsequent processing equipment, but also the pre-treatment process equipment for the prevention of water pollutants Follow-up of equipment contaminated water can also be used to improve the smell and color.

规格型号 Model	直径×高(mm×mm) Diameter × height	处理水量(t/h) Processing water volume
XJG-500	Φ500×1600	2
XJG-600	Φ600×1680	3
XJG-800	Φ800×2100	5
XJG-1000	Φ1000×2200	7.5
XJG-1200	Φ1200×2600	10
XJG-1400	Φ1400×2800	15
XJG-1600	Φ1600×3300	20
XJG-2000	Φ2000×3600	30
XJG-2600	Φ2600×3800	50
XJG-3000	Φ3000×4200	70
XJG-3600	Φ3600×4600	100



活性炭  
Activated carbon



石英砂  
Quartz sand

## XZWF系列重力式无阀过滤器 XZWF SERIES FILTER WITHOUT VALVE

专利号(Patent No.)  
202122340802.5



我公司在多年来开发设计制造重力式无阀过滤器的基础上,根据在各个工程成功运行经验和各用户反馈意见、结合我厂多年生产经验,不断更新完善,研制出了XZWF系列改进型第三代重力式无阀过滤器。

该设备的更新完善,具备了更宽广的处理能力和适用范围,常规处理范围有每小时处理20T、40T、60T、80T、100T、120T、150T、200T八个规格。另外可根据用户不同要求设计制造其他规格及40T/H以下各个规格的单罐式重力式无阀过滤器,同时可满足大型循环冷却水系统旁滤处理要求,设计制造规模更大的组合型重力式无阀过滤器,广泛应用于石油、化工、冶金、电力、炼油、纺织等工业领域和给水等民用领域。

On the basis of reserch and design on the filtration equipment without valve in our company combined with the opinion of feedback from the clients, success of project operation and rich experience of our company, we developed XZWF series improved type, that is the three generation of gravity type filtration without valve.

The achievemnt of this machine has enlarged the processing ability and range with 20t, 40t, 60t, 80t, 100t, 120t, 150t, 200t eight types. Besides we can design others type as the requirement of the client and single tank type grativity filtration equipment under 40t/h. Meanwhile the machine can meet the demand of asisting water filtration for the big scale circling water cooling system. And design and produce more bigger combined type gravity filtration equipment to extensively apply in petroleum, cheimical, metallurgy, power, oil refining, texture so on industries scope and water supplying civil scope.

型号规格 Model		20	40	60	80	100	120	150	200
产水量(吨/时) Water yield (t/h)		20	40	60	80	100	120	150	200
外形尺寸 Size	长(L) Length (L)	3900	4700	5600	6200	7200	7800	8000	9400
	宽(B) Width (B)	1800	2200	2600	3000	3600	3600	3800	4400
	进水箱壁口高H <sub>1</sub> Water Inlet Weir Height H <sub>1</sub>	6610	6630	6580	6580	6750	6750	6750	6750
	出水堰口高H <sub>2</sub> Water Outlet Weir Eight H <sub>2</sub>	H <sub>2</sub> -终端水头损失(1.5m、1.7m、1.9m三档任选) Terminal Water Head Loss( Optional 1.5m 1.7m 1.9 m)							
配管尺寸 Pipe Suppied Size	进水 Water Inlet	管径DN <sub>1</sub> Pipe DN <sub>1</sub>	100	150	200	200	200	250	300
		管中标高H <sub>1</sub> Pipe Middle Part Elevation H <sub>1</sub>	4710	4810	4810	4810	4810	4810	4810
	出水 Water Outlet	管径DN <sub>2</sub> Pipe DN <sub>2</sub>	100	150	200	200	200	250	300
		管中标高H <sub>2</sub> Pipe Middle Part Elevation H <sub>2</sub>	200	200	200	200	200	400	450
	排水 Water Drain	管径DN <sub>3</sub> Pipe DN <sub>3</sub>	300	300	400	400	500	500	500
		管中标高H <sub>3</sub> Pipe Middle Part Elevation H <sub>3</sub>	270	270	300	300	360	360	460
重量 Weight	设备净重(吨) Machine Net Weight (t)	6.61	9.6	11.88	13.43	20.8	22.9	25.6	30.8
	负载总重(吨) Loading Weight (t)	20	32	46	58	78	96	108	158





## 过滤设备 FILTRATION EQUIPMENT

## XYTH系列一体化净水器 XYTH SERIES INTEGRATED WATER PURIFIER



### 应用特点 FEATURE

沉淀区的集泥箱内采用几组沉泥，排泥采用虹吸罩排泥，并在集泥箱内设置了污泥冲洗装置，长期使用无须人工进入设备清洗污泥。

过滤区采用几组过滤为一体，当其中一组反冲洗时，其余几组正常工作，无需再设高位水箱就能满足反冲洗水量。

每一组滤池的进水均设有停水装置，虹吸反洗时，停水装置自动关闭，停止进水；虹吸反洗结束后，停水装置自动进水。这样，虹吸反洗时，沉淀水就不会随虹吸管排出，对节约能源和水源起到很好的效益。

Precipitation zone set several groups of mud inside the silt, mud with siphon cover mud and set in the set of mud inside the sludge washing device, long-term use is no need to manually enter equipment cleaning sludge.

The filter area several groups of filters, when one of the backwash, the remaining work properly without having to re-set the high water tank will be able to meet the backwash water.

Each group of filter water without water devices are equipped with to siphon backwash, water installations automatically shut down to stop the water; the end of the siphon backwash, water supply and installation of automatic water. Siphon backwash, sedimentation of water with a siphon discharge, save energy and water play a very good benefits.

### 主要技术参数 MAIN TECHNIQUE PARAMETER

- 进水压力:  $\geq 0.08\text{Mpa}$
- 设计表面负荷率:  $7.5 \sim 10.0\text{m}^3/\text{m}^2 \cdot \text{h}$
- 停留时间: 40min
- 过滤速度:  $8 \sim 12\text{m/h}$
- 反冲速度:  $\geq 14\text{L}/\text{m}^2 \cdot \text{s}$
- 反冲时间: 4~6min
- 原水浊度:  $\leq 1000\text{ppm}$ (与快速沉淀器用 $\leq 5000\text{ppm}$ )
- 出水浊度:  $\leq 3\text{ppm}$

- Inlet Pressure:  $\geq 0.08\text{Mpa}$
- Design surface loading rate:  $7.5 \sim 10.0\text{m}^3/\text{m}^2 \cdot \text{h}$
- Residence time: 40min
- Filtration speed:  $8 \sim 12\text{m/h}$
- Recoil speed:  $\geq 14\text{L}/\text{m}^2 \cdot \text{s}$
- Recoil time: 4~6min
- Raw water turbidity:  $\leq 1000\text{ppm}$  (Used with the rapid precipitation of  $\leq 5000\text{ppm}$ )
- Water turbidity:  $\leq 3\text{ppm}$

### 设备介绍 EQUIPMENT IS INTRODUCED

一体化全自动高效净水器是集混合反应、絮凝沉淀、过滤出水为一体，将加药、配水、排泥、反冲、排污等运行程序中设备自身的特殊装置结合电气控制自动完成。由于工作过程采用自动化，无需人员操作；故避免了人为操作造成的水质不稳定，使处理后的水质优良稳定。本系列净水装置不仅适用范围广，处理效果好，出水水质优良，而且自耗水量少，动力消耗省，占地面积小，节水、节电、节人工，可省去辅助机泵及设施。

Integration of automatic and efficient water purifier is a mixed reaction, the flocculating precipitate filtered water, the dosing with water, mud, recoil, sewage, run the program in a special device of the device itself combined with electrical control done automatically. The work process is the use of automation, without personnel to operate; Therefore, to avoid the instability of the water quality caused by human operation, so that the excellent stability of the treated water quality. Series of water purification devices not only applies to a wide range of treatment effect, excellent water quality and water consumption, power consumption province, small footprint, water, electricity, saving labor, eliminating the need for auxiliary pumps and facilities.

## XLXS连续流砂过滤器 XLXS CONTINUOUS SAND FILTER

专利号(Patent No.)  
201821327800.4



### 技术特点 TECHNICAL FEATURE

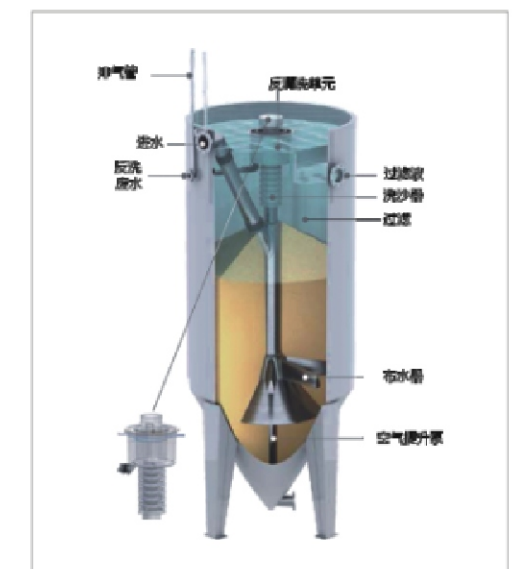
- 1、过滤连续运行，无需停机反冲洗，效率高；
- 2、无需反冲洗水泵、风机、冲洗水箱及阀门等；
- 3、集混凝、沉淀及过滤于一体，大大简化了工艺流程及占地空间；
- 4、运行及维护费用低；
- 5、对于高SS含量的废水不需要预处理；
- 6、与常规三段式工艺相比，可节省30%-40%的化学药剂；
- 7、可节省70%的设备空间；
- 8、深层过滤，滤床深度2000mm；
- 9、滤床压头损失小，只有0.5m；
- 10、采用单一均质滤料，无须级配层；
- 11、滤料被连续清洗，过滤效果好，无初滤液问题；出水水质稳定；易于改扩建。

1. Filter continuous operation, no need to stop for backwash, high efficiency;
2. Do not need backwash water pump, fan, flushing water tank and valve, etc.;
3. set coagulation, precipitation and filtration in one, greatly simplifies the process and space;
4. Low operation and maintenance costs;
5. No pretreatment is required for wastewater with high SS content;
6. compared with the conventional three-stage process, can save 30%-40% of chemical agents;
7. Can save 70% of the equipment space;
8. Deep filtration, the depth of the filter bed is 2000mm;
9. The pressure head loss of the filter bed is small, only 0.5m;
10. Single homogeneous filter material is adopted without gradation layer;
11. The filter material is continuously cleaned, with good filtration effect and no problem of primary filtrate; Stable effluent quality; Easy to rebuild and expand.

### 设备介绍 EQUIPMENT INTRODUCTION

连续流砂过滤器是移动床向上流连续式高效流砂过滤器的简称。它是一种创新的、设计独特的高科技环保产品。该产品广泛用于城市污水厂深度处理，石油石化废水深度处理、工业污水回用处理等领域。它与以往的固定床过滤器不同，不需停机反冲洗，连续运行；节电、节省运行成本；滤后水水质稳定，降低SS含量，提高排放标准。适合正在推广的提高排放水质量标准目标。我公司引进国外活性砂滤技术，针对国内所使用的实际情况对设备做了技术优化处理，洗砂强度好、提砂效率高、防结块等等。技术更适用于国内的污水环境。

Continuous sand filter is short for moving bed upward continuous high efficiency sand filter. It is an innovative, unique design of high-tech environmental protection products. The product is widely used in the deep treatment of municipal sewage plant, the deep treatment of petroleum and petrochemical wastewater, the reuse and treatment of industrial sewage and other fields. It is different from the previous fixed bed filter, does not need to stop backwash, continuous operation; power saving and operation cost saving; the quality of the filtered water is stable, the SS content is reduced, and the discharge water standard is improved. Suitable for the target of improving discharge water quality standards being promoted. our company has introduced foreign active sand filtration technology, and optimized the equipment according to the actual situation in china, such as good sand washing strength, high sand raising efficiency, anti-caking and so on. The technology is more suitable for domestic sewage environment.







## 过滤设备 FILTRATION EQUIPMENT

## XSC系列旋转钟式除砂机 XSC SERIES REVOLVING BELL TYPE DESAND MACHINE



旋转钟式除砂机是一种新引进的技术，用于给排水工程中去除直径0.2mm以上的大部分砂粒，去除率98%以上。

污水从沉砂池的切向进入，具有一定的流速，从而对砂粒产生离心力，使较重的砂粒，沿池壁及沉砂池独特的结构沉降到池底集砂槽，同时防止细小砂粒下沉。通过先进的空气提升系统为沉砂的排出提供良好的条件，直接将沉砂粒输送到砂水分离器设备中，实现砂粒与污水的彻底分离。

钟式除砂机系统在运行中，进出口水流速较高，处理量大，出砂效果好，占地面积小，设备结构简单，节约能源，运行可靠，操作及维护方便，适合大中型污水处理厂使用。

Revolving bell type desand machine is one new technology to purge away the sand with the above 0.2mm and the rate of removal can be 98%.

The sewage enters from the tangent of deposition pond and has a certain flow speed and make a centrifugal force to the sand and deposited the heavy sand along the pond wall and the sand pond unique structure and meanwhile prevent the lighter sand deposits. Supply the good condition to the sand discharge through a advanced air lifting system to convey the precipitated sand to the separating device for the water and sand.

Bell type desand system has a rapidly flow in the inlet and the outlet in working. It can process big quantity and good result of sand, occupy a little and, easy structure and costly in energy, reliable work and maintain easily. It is very useful for a small, middle and big processing plant.

型号 Model	流量(m³/h) Flow	电机功率(KW) Power	A	B	C	D	E	F	G	H	L
XSC-1.8	180	0.55	1830	1000	305	610	300	1400	300	500	1100
XSC-3.6	360	0.55	2130	1000	380	760	300	1400	300	500	1100
XSC-6.0	600	0.55	2430	1000	450	900	300	1350	400	500	1150
XSC-10	1000	0.75	3050	1000	610	1200	300	1550	450	500	1350
XSC-18	1800	0.75	3650	1500	750	1500	400	1700	600	500	1450
XSC-30	3000	1.1	4870	1500	1000	2000	400	2200	1000	500	1850
XSC-46	4600	1.1	5480	1500	1100	2200	400	2200	1000	500	1850
XSC-60	6000	1.5	5800	1500	1200	2400	400	2500	1300	500	1950
XSC-78	7800	2.2	6100	1500	1200	2400	400	2500	1300	500	1950

## XFL系列砂水分离器 XFL SERIES SAND AND WATER SEPARATOR



### 应用范围 APPLICATION

XFL型螺旋式砂水分离器用于污水处理厂、沉砂池，将沉砂池排出的砂水混合液进行砂水分离。

XFL type spiral sand water separator used for sewage treatment plant, the grit chamber, the grit chamber from the sand and water mixture of sand and water separation.

### 技术特点 TECHNICAL FEATURE

分离效率可高达90~98%，可分离出粒 $\geq 0.2\text{mm}$ 的颗粒。

采用无轴螺旋，无水中轴承，维护方便。

结构紧凑，重量轻。

新型的传动装置，其关键部位减速机为先进的轴装式。不用联轴器，安装对中方便。

衬条为快装式，便于更换。

螺旋轴向位置可调，便于调整其尾端和箱壁的安全间隙。

The separation efficiency can be as high as 90 ~ 98%, can isolate grains  $\geq 0.2\text{ mm}$ .

With shaft screw, no water bearing.

Maintenance is convenient.

Compact structure, light weight.

The new type of transmission device, its key parts - the shaft of the reducer for advanced mounted.

No coupling, easy installation and pairs.

The lining is fast loading type, easy to replace.

Adjustable screw axial location, easy to adjust its tail and the walls of security clearance.

### 工作原理 WORKING PRINCIPLE

XFL型砂水分离器由无轴螺旋、衬条、U形槽、水箱、导流板和驱动装置等组成。

工作过程：砂水混合液从分离器一端顶部输入水箱，混合液中重度较大的如砂粒等将沉积于U形槽底部，在螺旋的推动下，砂粒沿斜置的U形槽底提升，离开液面后继续推移一段距离，在砂粒充分脱水后经排沙口卸至盛砂桶，而与砂分离的水则从溢流口排出并送往厂内进水池。

XFL sand water separator by the shaftless spiral, liner, u-shaped groove, water tank, guide plate, and drives, etc.

Process: sand and water mixture from separator at the top of the input water tank, relation between the larger sand mixture, etc will be deposited on the bottom of the u-shaped slot, under the impetus of the screw, the sand along the diagonal of the u-shaped groove bottom, after leaving the liquid level to continue goes on a distance, the river mouth after fully dehydration in sand discharge to fill sand barrels, while the water of the separation of the sand out of the overflow mouth eduction and taken to a factory into the pool.





## 曝气搅拌设备 AERATION STIRRING DEVICE EQUIPMENT

## XRFS系列二氧化氯发生器 XRFS SERIES CHLORINE DIOXIDE GENERATOR



作为一种新型的氧化剂和消毒剂，二氧化氯以其高效、广谱、无残留、无副产物的消毒能力和脱色、除臭、除异味等强氧化能力已经成为水处理领域的佼佼者。和紫外线、臭氧、次氯酸钠、液氯等传统的消毒剂相比二氧化氯有着独特的优势，它越来越成为业内人士的第一选择。

As for a new type oxidant and disinfectant, the carbon dioxide is the leader in the sewage processing line because of good ability of high effective, no residue, no side effect and colorless, deodorize. The carbon dioxide has unique advantage comparing with the infrared ray, ozone, sodium hypochlorite so on traditional disinfectant. That become the first choice by the users.

## XJY系列自动加药装置 XJY SERIES AUTOMATIC CHEMICAL FEEDING DEVICE

专利号(Patent No.)  
202122412305.1



- 1、给水工程中混凝剂、助凝剂、消毒剂的溶解、搅拌及投加。
- 2、各种酸碱溶液的配制及投加。
- 3、软化、脱盐水处理中再生液的配制及投加。
- 4、循环冷却水水质稳定剂的配制及投加。

- 1, Stir and throw the coagulant, disinfectant and coagulant aid into the water.
- 2, This machine is very compact and installation is easy.
- 3, It is costly and low noisy, corrosion resistant.
- 4, the recirculated cooling water quality stabilizer's disposition and throws Canada.

## XCY系列臭氧发生器 XCY SERIES OZONE GENERATOR



- 1、适用于空气跟水的杀菌、消毒、除异味；
- 2、微电脑控制整机监控全过程，采用纳米空气过滤，空气自动干燥系统，保证臭氧产量稳定性和延长设备使用寿命；
- 3、加强型风机送风，臭氧输送距离远使用效率高；主机自置气源环境调节装置，保证臭氧浓度的稳定性和放电面不生成氮氧化物及其它有害污染气体，杀菌彻底、无残留。
- 4、采用模块设计，方便设备维修和保养；
- 5、电脑全自动控制杀菌全过程。

1. It is suitable for sterilization, disinfection and odor removal of air and water.
2. Microcomputer controls the whole process of monitoring, using nanometer air filtration and automatic air drying system to ensure the stability of ozone production and prolong the service life of the equipment.
3. Strengthened fan air supply, high efficiency of long-distance use of ozone transmission; host self-contained air source environment regulator to ensure the stability of ozone concentration and discharge surface does not generate nitrogen oxides and other harmful pollution gases, complete sterilization, no residue.
4. Using cross-block design to facilitate equipment maintenance and maintenance;
5. The whole process of sterilization is controlled by computer.

## XBSX系列旋转式滗水器 XBSX SERIES REVOL VING DECANTER

专利号(Patent No.)  
201821327152.2



滗水器是SBR法、CASS法、ICEAS法等污水处理工艺中最常用的关键设备，它可在排水阶段随水位变化而自动升降，将已处理的上清液自表面排出，而表面的浮渣被有效地截留在反应池内。

Revolving decanter is sewage treatment crafts and so on SBR law, CASS law, ICEAS law the most commonly used key equipment, it may in the draining water stage along with the water level change, but the power elevation, will have processed the supernate discharges from the surface, but the superficial dross is temporarily stopped effectively in responds in the pond.





## 曝气搅拌设备 AERATION STIRRING DEVICE EQUIPMENT

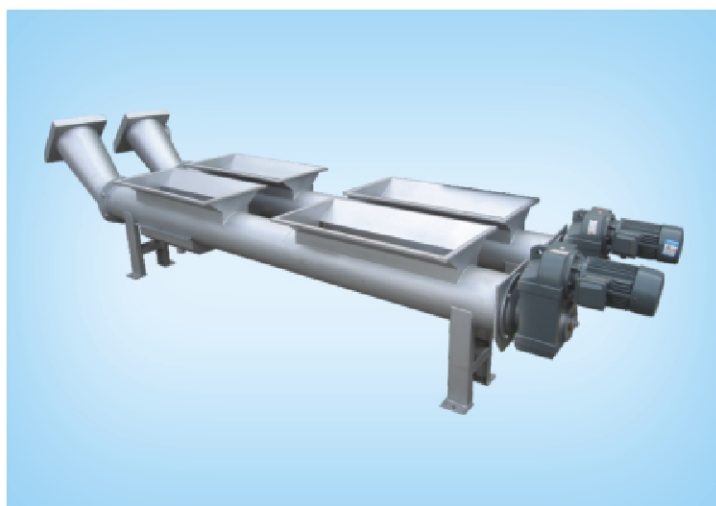
### XWS系列无轴输送机 XWS SERIES NON AXIAL CONVEYOR



无轴螺旋输送机是一种无中心轴靠螺旋体旋转运输物料的设备，主要用于输送污泥、栅渣等，输送机输送方向由螺旋叶片的螺旋方向决定，可双向输送，本输送机可密闭输送，防止环境污染。

It is one kind of convey machine without the central shaft to use for convey the mud and dross. The direction of the convey counts on the direction of the screw leaf. It can make a two ways convey. This machine can convey closed to prevent the pollution.

### LYS螺旋压榨输送机 LYS SCREW PRESS CONVEYOR



LYS螺旋压榨输送机适用于栅渣的压缩脱水。运行时无堵塞，日常维修工作量小。在进料区、压榨区、出水区均设有冲洗系统，使排出的垃圾杂物不会再次污染环境。

LYS screw press conveyor gate residue compression for dehydration. Run-time non-clogging, maintenance repair work is very small. With treatment in the body hole, set the sink, squeeze the water can be discharged through a pipe.

### XQXB离心式潜水曝气机 XQXB CENTRIFUGAL SUBMERSIBLE AERATOR



潜水曝气机主要适用于给水预处理和污水生化处理工艺中的专业曝气设备，用于曝气沉砂池、预曝气池、曝气池、气浮池等曝气和搅拌，特别是：生物氧化污泥硝化碱性废水的中和，油、脂的分离。也可用于养殖塘增氧和景观水的养护。

Submersible aerator is mainly applied to biological wastewater treatment and water pre-treatment process in a professional aeration equipment for aeration grit chamber, pre-aeration tank, aeration tank, flotation tank and other aeration and mixing, in particular: biological oxidation of wastewater sludge in nitrification and alkaline, oil, grease separation. Also be used for aquaculture pond aeration and landscape water conservation.

### XSBJ系列射流曝气机 XSBJ SERIES JET AERATOR



结构紧凑，占地面积小安装方便。可根据曝气池的特点，污水处理量的大小以及进池污水指标等灵活选择布置方式、潜水深度、使用台数等。

曝气效能高，应用范围广。由于其高速的射流流态，液气混合充分，氧吸收率高，动力效率高。比传统曝气池处理效率高3~4倍，曝气时间可明显缩短，并适用于各种污水处理，包括推流式曝气池、混合曝气池、延时曝气池、氧化沟、氧化塘等。

Compact structure, small footprint and easy installation. According to the characteristics of the aeration tank, the size of the sewage treatment capacity as well as into the pool of sewage indicators flexibility to choose the layout, diving depth, and number.

The aeration performance, a wide range of applications. Due to its high-speed jet flow pattern, liquid-gas fully mixed, the oxygen absorption rate, high power efficiency. 3 to 4 times higher than the processing efficiency of traditional aeration tank, aeration time can be significantly shortened, and applies to various sewage treatment, including the plug-flow aeration tanks, mixed aeration tank, extended aeration pond, oxidation ditch, oxidation ponds.

### XSLQ系列射流器 XSLQ SERIES EJECTOR



射流器又称水射器，它是由喷嘴、吸入室、扩压管三部分组成，是利用射流负压原理发展起来的一种多用途曝气方式，独特的混合气室设计，强劲的水流与空气混合喷射，使搅拌均匀、完全，产生的气泡多而细腻，溶氧效率高，传统的曝气设备氧的转化率一般低于10%，采用射流形式的曝气设备氧的转化率可达25%以上。

The ejector is also called the water injector, which is composed of a nozzle, a suction chamber, a diffuser pipe is composed of three parts, is the use of a multi-purpose aerated jet pressure developed the principle of the gas mixing chamber, design unique, strong currents and air mixture injection, mixing evenly, so completely, produce bubble more and delicate, high efficiency of conversion of dissolved oxygen, oxygen aeration equipment traditional rate generally lower than 10%, the oxygen jet aeration equipment form of the conversion rate is higher than 25%.





## 曝气搅拌设备 AERATION STIRRING DEVICE EQUIPMENT

### QJT系列潜水推流器 QJT SERIES SUBMERSIBLE WATER IMPELLER



混合搅拌系列潜水搅拌机适用于各种水处理工艺和工业流程需要保持固、液二相或固、液、气三相介质均匀混合反应的场所。

The mixed stirred mixer series submersible mixer is suitable for the water treatment process and the industrial process need to keep the solid, liquid two-phase or solid, liquid, gas three-phase medium uniform mixing reaction place.

- 1、结构紧凑、操作维修简单、安装检修方便、使用寿命长；
- 2、叶轮具有最佳的水力设计结构，工作效率高，后掠式叶片具有自洁功能，可防杂物缠绕、堵塞；
- 3、与曝气系统混合使用可使能耗大幅度降低，充氧量明显提高，有效防止沉淀。

- 1, compact structure, simple operation and maintenance, easy installation and maintenance, long life;
- 2, the impeller has the best hydraulic design structure, high efficiency, swept-back blade with a self-cleaning function, can prevent debris winding, blocking;
- 3, with the aeration system energy mix can significantly reduce, significantly improve oxygenation, prevent sedimentation.

### QJB系列搅拌机 QJB SERIES MIXER



低速推流系列搅拌机适用于工业和城市污水处理厂曝气池和厌氧池，其产生低切向流的强力水流，可用于池中水循环及硝化、脱氮和除磷阶段创建水流等。

Low-speed mixer plug-flow series for industrial and municipal wastewater treatment plant aeration tank and the anaerobic tank, which produces strong low-flow tangential flow can be used for pool water circulation and nitrification, denitrification and phosphorus removal stage to create water and so on.

- 1.QJB型搅拌机结构紧凑、操作维护简单、安装检修方便、使用寿命长。
- 2.叶轮具有最佳的水力设计结构，工作效率高，后掠式叶片具有自洁功能可防杂物缠绕、堵塞。
- 3.与曝气系统混合使用可使能耗大幅度降低，充氧量明显提高，有效防止沉淀。

1. QJB type mixer compact, easy operation and maintenance, installation, easy maintenance, long service life.
2. impeller hydraulic design with the best structure, high efficiency, swept blade with self-cleaning feature can prevent debris winding plug.
3. mixing and aeration systems can significantly reduce energy consumption, significantly improved oxygenation, prevent precipitation.

### XQJB潜水搅拌机 XQJB SUBMERSIBLE MIXER



- 1、XQJB型搅拌机结构紧凑操作维护简单、安装检修方便、使用寿命长。
- 2、叶轮具有最佳的水力设计结构，工作效率高，后掠式叶片具有自洁功能可防杂物缠绕、堵塞。
- 3、与曝气系统混合使用可使能耗大幅度降低，充氧量明显提高，有效防止沉淀。
- 4、两道机械密封材质为碳化钨-碳化钨。所有外露紧固件均为不锈钢。

- 1, XQJB type mixer compact simple operation and maintenance, easy installation and maintenance, long service life.
- 2, the impeller has the best hydraulic design structure, high efficiency, swept-back blade with self-cleaning function can prevent debris wrapped blocked.
- 3, with the aeration system energy mix can significantly reduce, significantly improve oxygenation effectively prevent precipitation.
- 4, two mechanical seal made of tungsten carbide - tungsten carbide. All exposed fasteners are stainless steel.

### XDS倒伞型叶轮曝气机 XDS DOWN UMBRELLA AERATOR



倒伞型立式表面曝气机是污水处理专用机构设备。广泛适用于活性污泥污水处理工艺的构筑物，也适用于河流曝气及氧化塘。

采用专用立式减速机、结构紧凑、重量轻。

由于采用立式结构，减速机没有水平密封，根除了卧式结构输入轴端漏油的可能。

倒伞叶轮径向推流能力强，完全混合区域广，动力效率高，不挂脏，不堵塞。

The inverse cone type surface aerator is the specialized machine in a sewage processing. It is widely used in the activated mud processing construction and river aerating and oxygen pond.

Uses the special-purpose vertical speed reducer, the structure to be compact, the weight is light.

Because uses the vertical structure, the speed reducer does not have the level seal, has eradicated the horizontal-type structure input axial-tab terminal oil leak possibility.

Pours umbrella impeller radial direction drift ability, mixes the region to be broad completely, the power efficiency is high, does not hang dirty, does not stop up.

### XGH系列管式静态混合器 XGH SERIES TUBULAR STATIC MIXER



我公司生产的管式静态混合器是处理水与混凝剂、助凝剂、消毒剂实行瞬间混合的理想设备：具有高效混合、节约用药、设备小等特点，它是由两个一组的混合单元件组成，在不需外动力情况下，水流通过混合器产生对分流、交叉混合和反向旋流三个作用，混合效率达90-95%。

This machine is the ideal mixer to make the water rapidly blend with the coagulant, disinfectant. That has a high ability of blend and drug save, land save so on. It forms of two blending unit to be one group. Without the out force the water will make three function: convection, cross-blend and negative spin. the rate of blend is 90-95%.

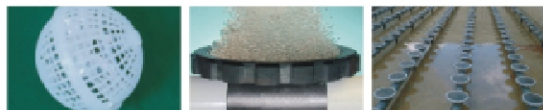
### 双曲面搅拌机 DOUBLE CURVED MIXER



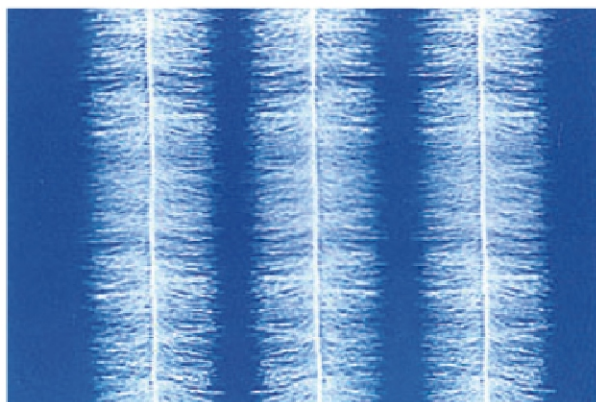
独特的叶轮结构设计，最大限度地将流体特性与机械运动完美地结合。双曲面叶轮的曲面是曲线沿Y轴旋转而构成的曲面体；为了迎合水体流动，设计从叶轮的进水，这一方面减少了进水紊流，另一方面保证了液体对叶轮表面的压力，从而保证整机在运动状态下的平衡。在渐开双曲面上均布有八条导流叶片，借助液体自重压力做补充进水获得的势能与叶轮旋转式产生的离心力形成动能，液体在重力加速的条件下沿叶轮圆周方向作切线运动，在池壁的反射作用下，形成自下而上的循环水流，故可获得在轴向（Y）和径向（X）方向的交叉水流。正是由于双曲面搅拌机叶轮的结构特性和接近池底安装的特点，决定了它在工作中可获得理想的搅拌效果，能有效地消除搅拌死角。

The unique impeller structure design, the maximum of the fluid characteristics and mechanical movement perfect combination. Hyperbolic surface impeller surface is a curve along the Y axis rotation formed curved surface body; in order to cater to the water flow, design water from the center of the impeller, which reduce the inlet turbulence, on the other hand ensures the pressure of liquid on the surface of the impeller, so as to guarantee the machine in motion state of balance. Eight guide vane in involute double fox on the surface of uniform, with the self weight pressure of a liquid supplement water potential energy with the impeller rotating centrifugal force and the formation of kinetic energy, liquid under the condition of the acceleration of gravity along the circumferential direction of the impeller for tangential movement, in the reflection in a pool wall, formation from the bottom to the top of the circulating water flow, so it can be cross flow in axial direction (Y) and radial direction (X). Because of the structural characteristics of the impeller of the double curved mixer and the characteristics of the installation, it is decided that the ideal stirring effect can be obtained in the work and can effectively eliminate the dead angle.

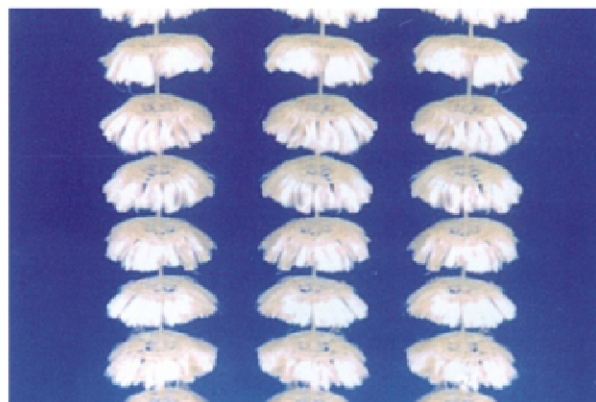




立体弹性填料  
SOLID ELASTIC FILLING



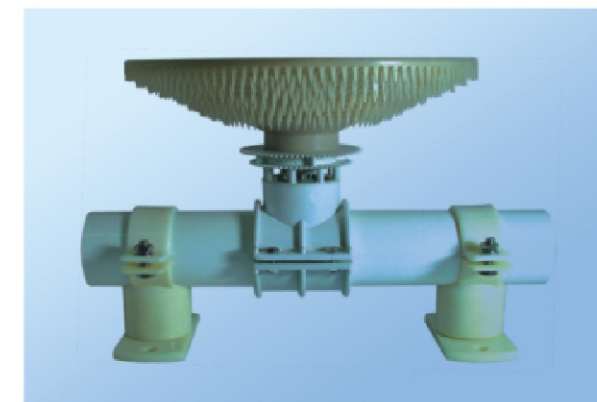
组合式双环填料  
GROUP DUAL CIRCLE FILLING



悬挂链式曝气器  
SUSPENDED CHAIN AERATOR



旋混式曝气器  
SPIN TYPE AERATOR



仿水草式填料  
IMITATION PLANTS FILLING



环形填料  
ROUND FILLING

MBBR填料  
MBBR FILLING



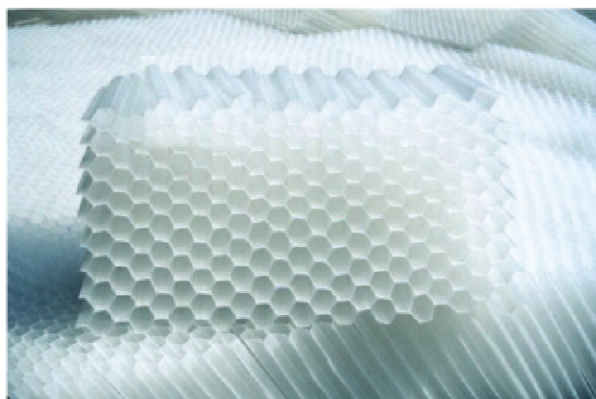
曝气管  
AERATION TUBE



膜片式微孔曝气器  
MEMBRANE SMALL HOLE AERATOR



斜管蜂窝填料  
PIPING HONEYCOMB FILLING



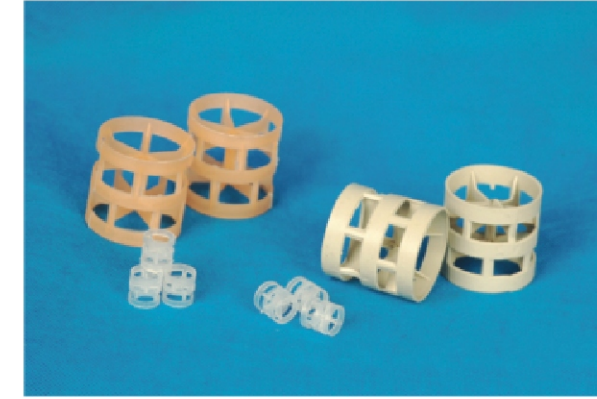
纤维球填料  
FIBER BALL CARRIER



悬浮球填料  
SUSPENDED BALL CARRIER



鲍尔环填料  
BAUER RING PACKING







## 空气异味处理系统 ATMOSPHERIC ODOR TREATMENT SYSTEM

## UV光氧催化设备 UV PHOTOCATALYTIC OXIDATION EQUIPMENT



### 工作原理 WORKING PRINCIPLE

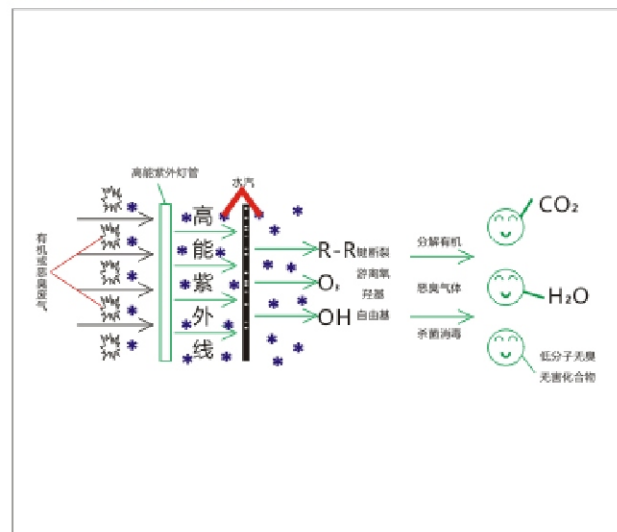
1、利用高能高臭氧紫外线光束分解空气中的氧分子产生游离氧，即活性氧，因游离氧所携正负电子不平衡所以需与氧分子结合，进而产生臭氧。 $UV + O_2 \rightarrow O + O^*$  (活性氧)  $O + O_2 \rightarrow O_3$  (臭氧)，众所周知臭氧对有机物具有极强的氧化作用，对有机气体及其它刺激性异味有立竿见影的清除效果。有机性气体利用排风设备输入到本净化设备后，运用高能紫外线光束及臭氧对有机（异味）气体进行协同分解氧化反应，使有机物质其降解转化成低分子化合物、水和二氧化碳，再通过排风管道排出室外。

2、催化剂（二氧化钛）在受到紫外线光照射时生成化学活性很强的超氧化物阴离子自由基和氢氧自由基，攻击有机物，达到降解有机物的作用。二氧化钛属于非溶出型材料，在彻底分解有机污染物和杀灭菌的同时，自身不分解、不溶出，光催化作用持久，并具有持久的杀菌、降解污染物效果。

1, the use of high energy and high ozone ultraviolet beam decomposition of oxygen molecules in the air to produce free oxygen, that is, reactive oxygen species, due to the free oxygen brought by the positive and negative electron imbalance so the need to combine with oxygen molecules, and thus produce ozone.  $UV + O_2 \rightarrow O + O^*$  (reactive oxygen species)  $O + O_2 \rightarrow O_3$  (ozone), as is known to all ozone has a strong oxidation of organic matter, organic gas and other pungent odor has an immediate effect of removal. The use of organic gas exhaust equipment into the purification equipment, using high-energy ultraviolet light and ozone (smell) of organic gas CO oxidation decomposition reaction, the organic substance degradation gas into low molecular compounds, water and carbon dioxide, and then exhausted to the outside through the exhaust pipe.

2, the catalyst ( $TiO_2$ ) to generate chemical active strong superoxide anion radical and hydroxyl radicals under UV light irradiation, to attack the organic matter, organic matter degradation effect. Titanium dioxide is a non soluble material, in the thorough decomposition of organic pollutants and sterilization at the same time, it does not decompose, do not dissolve, the photocatalytic effect of lasting, and has a lasting effect of sterilization, degradation of pollutants.

### 工艺示意图 PROCESS DIAGRAM



### 工程图例 ENGINEERING LEGEND



## 活性炭吸附塔 ACTIVATED CARBON ADSORPTION TOWER



Activated carbon has many pores and large specific surface area, depending on the molecular attraction and capillary action, the solvent vapor and volatile substances adsorbed on its surface, and according to the different boiling point material, steam adsorption material precipitation. When the steam is used as the medium, the organic solvent vapor is condensed with the water vapor through the condenser, and the organic solvent is recovered after the separation barrel is separated. Residual liquid after aeration treatment. Quite a lot of organic waste gas purification, such as direct combustion, catalytic combustion, but for the low concentration of waste gas, the air is difficult to completely burn, the waste heat cannot be used fully in the intermittent operation, the waste gas in low concentration, large air flow or intermittent operation of the activated carbon adsorption method has its unique advantages.

The purification device can be set according to the production process of single tank and double tank, intermittent production general set up a single tank; continuous production set up two adsorption tank, an adsorption, a desorption, two cans can also be used at the same time. 1. forms of internal filter filtration, uniform gas, large filtering area, adsorption high efficiency, strong ability; 2. equipment has the advantages of compact structure, small occupied area, simple and convenient maintenance, low operation cost; 3. can simultaneously process a plurality of mixed organic waste gas; rapid replacement of the 4. filter, the operation is simple and safe; 5. full closed type, indoor and outdoor can be used. Simple and reliable operation.

活性炭，具有很多微孔及很大的比表面积，依靠分子引力和毛细管作用，能使溶剂蒸汽和挥发性物质吸附于其表面，又根据不同物质的沸点，用蒸汽将吸附物质析出。当采用蒸汽为介质时析出的有机溶剂蒸汽与水蒸汽一起通过冷凝器凝结，进入分离桶经分离后回收有机溶剂。残液经曝气处理后排放。有机废气净化方式颇多，如直接燃烧，催化燃烧，但其对于低浓度，大风量的废气很难完全燃烧，在间歇作业中余热不能充分利用，对低浓度、大风量或间歇作业产生的废气采用活性炭吸附法有其独特优点。本净化装置可根据生产工艺设定单罐和双罐，间歇性生产一般设立单罐；连续性生产设立两个吸附罐，一只吸附，一只脱附，也可两罐同时使用。1.过滤形式采用内滤式，布气均匀，过滤面积大，吸附效率高，能力强；2.设备构造紧凑，占地面积小，维护管理简单方便，运转成本低；3.能够同时处理多种混合有机废气；4.滤料更换快速，操作简易、安全；5.全密闭型，室内外皆可使用。操作简便可靠。

## 低温等离子废气处理设备 LOW TEMPERATURE PLASMA WASTE GAS TREATMENT EQUIPMENT



1、高效的处理效果：低温等离子废气处理设备效率可以去除到90%。

2、运行费用低：工业等离子废气净化设备采用专利的蜂窝电场、卧式结构，阻力小。减少了风机的阻力，降低了运行费用；设备本身采用先进的高压控制系统和高压电源，转换效率高，耗电低。

3、维护方便：需要定时清洗的部件为可拆卸的模块化组合，这样既方便设备日常的清洗维护，也有利于这些部件的维修替换。

4、可升级性：设备都采用标准法兰连接的组合式结构，使设备具有可升级性。模块化净化单元可以灵活组合，根据不同的净化处理量及净化率要求，单元数量可作适应性调整。

5、占地面积小：设备的电源和设备在一起，无需另建电源控制室，节省厂房面积。

6、运行的持续性：采用分组供电的方式；即使某一组电场放电或故障，其他组还可以正常工作，不影响设备的运行，保证设备运行的持续性。

1, the highly effective treatment effect: low temperature plasma can remove waste gas treatment equipment efficiency to 90%.

2, low operating cost: industrial plasma exhaust gas purification equipment using patent honeycomb electric field, horizontal structure, small resistance. To reduce the resistance of the air blower, reduces the operation cost; The device itself USES the advanced high voltage and high voltage power supply control system, high conversion efficiency, low power consumption.

3, maintenance convenient: need regular cleaning of parts for removable modular combination, so convenient daily cleaning maintenance equipment, but also to the maintenance replacement of these parts.

4, scalability: equipment all adopt standard flange connection of modular structure, make the equipment can be upgraded. Flexible modular purification unit combination, according to the requirements of the different purification processing and purification rate, unit number can make readjustment.

5, cover an area of an area small, equipment of power supply and equipment together, don't need to build another power control room, save workshop area.

6, run sustainability: adopt the way of grouping power supply; Even if a particular set of electric discharge or fault, other group can also work, does not affect the operation of the equipment, to ensure the sustainability of the equipment operation.





## 空气异味处理系统 ATMOSPHERIC ODOR TREATMENT SYSTEM

## 生物除臭系统 BIOLOGICAL DEODORIZATION SYSTEM

专利号(Patent No.)  
202122264048.1



### 应用特点 FEATURE

水溶渗透，恶臭污染物从气相转移到液相和固体表面液膜；生物吸收，液相或固体表面液膜的污染物被填料上附着的微生物吸附、吸收；生物降解，进入微生物细胞的恶臭成分作为营养物质被微生物分解、利用，从而被去除。  
含硫的恶臭成分可被氧化分解成 $S$ 、 $SO_2$ 、 $SO_4^{2-}$ ；含氮的恶臭成分则被氧化分解成 $NH_4^+$ 、 $NO_2^-$ 、 $NO_3^-$ 。恶臭物质的氧化需要各种微生物参与，同一恶臭物质不同的氧化阶段需不同的微生物，如含硫物质的氧化，当恶臭气体为 $H_2S$ 时，专性的自养型硫氧化菌会在一定的条件下将 $H_2S$ 氧化成硫酸根；当恶臭气体为有机硫如甲硫醇时，则首先需要异养型微生物将有机硫转化成 $H_2S$ ，然后 $H_2S$ 再由自养型微生物氧化成硫酸根。当恶臭气体为氨时，氨先溶于水，然后在有氧条件下，经亚硝化细菌和硝化细菌作用转化成硝酸根，在兼性厌氧条件下，硝酸盐还原菌将硝酸盐还原成氮气。

Water penetration, odor pollutants transfer from the gas phase to the liquid film on the solid surface; biological absorption, liquid or solid pollutants by packing liquid film on the surface adhesion of the microorganism adsorption and absorption; biodegradation, odor components into the microbial cells as nutrients by microbial decomposition and utilization, so as to be removed.

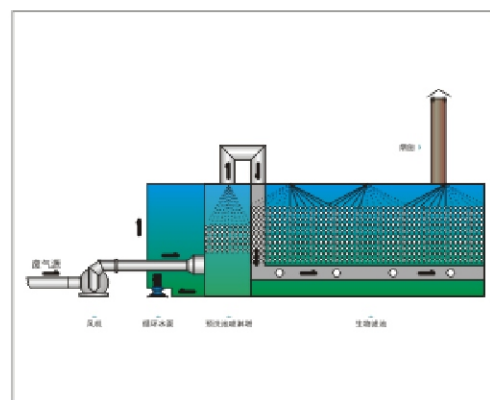
Sulfur containing odor components can be oxidized into  $S$ ,  $SO_2$ ,  $SO_4^{2-}$ ; nitrogen containing odor components are oxidized into  $NH_4^+$ ,  $NO_2^-$ ,  $NO_3^-$ . The oxidation of malodorous substances need all kinds of microorganism in the same odor, different stages of oxidation of different microorganisms, such as oxidation of sulfur-containing substances, when the malodorous gas is  $H_2S$ , autotrophic sulfur oxidizing bacterium obligate  $H_2S$  will be oxidized into sulfate under certain conditions; when the odorous gas is organic sulfur such as methanethiol, heterotrophic microorganisms will first require organic sulfur into  $H_2S$ , then  $H_2S$  of autotrophic microbial oxidation to sulfate. When the malodorous gas for ammonia, ammonia dissolved in water, then under aerobic conditions, the nitrification bacteria and nitrifying bacteria transformed into nitrate, in anaerobic conditions, the nitrate reducing bacteria to nitrate into nitrogen.

### 概述 SUMMARY

生物过滤除臭技术作为恶臭气体治理有效的绿色解决方案，已被广泛运用于众多的城镇污水处理厂。因为生物过滤不使用有害的和危险的化学药剂，能源的需求在诸多方法中最低，过滤用的滤料源于自然界，生物处理过程中不排出有害物质，并且最后的产物也是良性的，工程的实施安全可靠。公司消化吸收国外先进技术，开发出工艺简单、投资省、运行费用低、维护管理方便、去除率高、无二次污染的BD系列生物除臭系统技术，并成功应用于众多的城镇污水处理厂。

As a kind of effective green solution for odor control, biofiltration deodorization technology has been widely used in many municipal wastewater treatment plants. Because of the biological filtration without the use of harmful and hazardous chemicals, energy demand in many ways the lowest filter filter source in nature, not the discharge of hazardous substances in biological treatment process, and the final product is benign, the implementation of the project safety. The company to absorb foreign advanced technology, developed a simple process, low investment and operating cost, convenient maintenance and management, high removal efficiency, no two pollution BD series biological deodorization system technology, and successfully applied to many of the urban sewage treatment plant.

### 工艺示意图 PROCESS DIAGRAM



## 喷淋塔 SPRAY TOWER



### 应用特点 FEATURE

1. 除尘脱硫效率高，采用碱性洗涤水时，脱硫效率可达85%；
2. 设备占地少，安装方便；
3. 耗水、耗电指标较低；
4. 耐腐蚀、不磨损，使用寿命长；
5. 设备运行可靠，维护简单、方便。
6. 配套进口雾化装置，动力小，性能稳定，6-7MPa高压雾化。



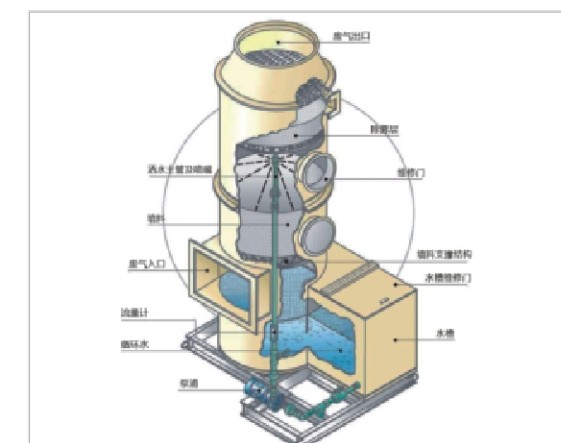
### 概述 SUMMARY

废气由风管引入净化塔，经过填料层，废气与氢氧化钠吸收液进行气液两相充分接触吸收中和反应，酸雾废气经过净化后，再经除雾板脱水除雾后由风机排入大气。吸收液在塔底经水泵增压后在塔顶喷淋而下，最后回流至塔底循环使用。净化后的酸雾废气达到地方排放标准的排放要求，低于国家排放标准。

The introduction of acid mist exhaust purification tower by air duct, exhaust gas passes through the filler layer, and sodium hydroxide absorption liquid two-phase full contact absorption neutralization reaction, acid mist emissions after cleaning, the demisting plate dehydration fog by the fan into the atmosphere. The absorption liquid is sprayed at the top of the tower by a water pump, and then is sprayed down to the bottom of the tower. After the purification of acid mist emissions to reach the place discharge standard requirements, lower than the national emission standard.

1. The dust removal desulfurization efficiency is high, using alkaline wash water, the desulfurization efficiency can reach 85%;
2. Equipment covers an area of less, easy installation;
3. The water consumption, lower power consumption indicators;
4. Corrosion resistance, no wear, long service life;
5. Reliable equipment operation, maintenance is simple and convenient.
6. form a complete set of imported atomization device, small power, stable performance, 6-7 mpa high-pressure atomization.

### 工艺示意图 PROCESS DIAGRAM







## 空气异味处理系统 ATMOSPHERIC ODOR TREATMENT SYSTEM

## 粉末料仓 LIME SILO

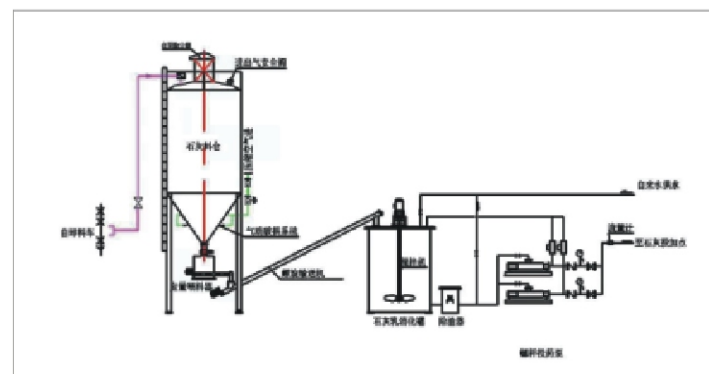


粉末料仓是将一定量的粉剂存放在一个特制的容器内，粉料入仓时产生的粉尘由布袋收尘器收尘，吸附在布袋表面的粉尘由振打器激振下落回粉料仓。存储的石灰、活性炭、水泥粉末经振荡器疏松均匀下料给变频调速给料机定量给料，螺旋输送机输送到溶解箱，机械搅拌产生乳液，药液投加泵将配制好的乳液输送到药液投加点的整个过程。

The powder silo stores a certain amount of powder in a specially designed container. The dust generated when the powder enters the silo is collected by a cloth bag dust collector, and the dust adsorbed on the surface of the cloth bag is vibrated by a rapper and falls back to the powder silo. The stored lime, activated carbon and cement powder are uniformly and loosely fed by the oscillator to the variable frequency speed regulating feeder for quantitative feeding. The screw conveyor is transported to the dissolution tank, and the lotion is produced by mechanical mixing. The liquid medicine feeding pump delivers the prepared lotion to the liquid medicine feeding point.

### 技术特点 TECHNICAL FEATURE

- (1)装置运行无粉尘污染，节省人工。
- (2)采用先进下料流化破拱装置，出料更顺利。
- (3)采用精确计量下料、输送装置，粉料投加更精确
- (4)管路阀门采用特殊管阀，密封性好，尤其适用于含颗粒物料的输送。
- (5)位计采用进口液位测量仪器，精确控制。
- (6)电控系统采用先进自动控制系统，设备高效自动运转，操作便捷。



- (1) The device is free of dust pollution and saves labor.
- (2) The advanced discharging fluidization arch breaking device is adopted to make the discharging more smooth.
- (3) Precise metering, feeding and conveying device is adopted to ensure more accurate powder feeding
- (4) The pipeline valve adopts special pipe valve, which has good sealing performance, and is especially suitable for conveying materials containing particles.
- (5) The level gauge adopts imported liquid level measuring instruments for precise control.
- (6) The electric control system adopts advanced automatic control system, and the equipment operates efficiently and automatically, and the operation is convenient.

## 餐厨垃圾处理生产线 KITCHEN WASTE TREATMENT PRODUCTION LINE



### 技术特点 TECHNICAL FEATURE

- 1、目前国内工艺和设备一体化程度最高  
具有领先的工艺技术水平，可根据不同地方的餐厨垃圾成分调整设备参数。
- 2、处理工艺最全面  
从餐厨垃圾预处理、厌氧发酵处理、沼气利用到末端的废水、废渣和臭气处理，都有系统和完整的解决方案。
- 3、厌氧发酵技术最佳  
污水处理采用高效厌氧消化工艺，运行稳定、产气率高。
- 4、出油率高  
采用多级机械分选技术，有效分离杂物，强化油水分离技术，油脂回收率高。

1. Currently, the highest degree of integration of processes and equipment in China  
With leading technological level, equipment parameters can be adjusted according to the composition of kitchen waste in different places.
2. The most comprehensive treatment process  
There are systematic and complete solutions for food waste pretreatment, anaerobic fermentation treatment, biogas utilization, and terminal wastewater, waste residue, and odor treatment.
3. The best anaerobic fermentation technology  
High efficiency anaerobic digestion process is adopted for wastewater treatment, with stable operation and high gas production rate.
4. High oil yield  
Adopt multi-level mechanical separation technology to effectively separate impurities, strengthen oil water separation technology, and achieve high oil recovery rate.

餐厨垃圾处理生产线可以促进餐饮垃圾直接转化成经济效益，其采用物理、机械、生物等综合的分选和提取技术，提取粗油、炼制生物质油和发酵沼气等产品。封闭的自动入料系统和全自动控制系统，使其具有连续化、自动化、规模化、模块化等优点。餐厨垃圾综合处理工艺由投放系统、自动分拣破碎系统、储藏系统、脱水系统、烘干（或搅拌发酵）系统、输送系统、油水分离系统、供气（蒸汽）系统、除臭系统、饲料混合系统、包装系统、自动控制系统等构成。

可以根据餐厨垃圾处理量，选择大型或者小型的工艺和设备。

The food waste treatment production line can promote the direct conversion of food waste into economic benefits. It uses comprehensive physical, mechanical, and biological separation and extraction technologies to extract crude oil, refine biomass oil, and ferment biogas and other products. The closed automatic feeding system and fully automatic control system have the advantages of continuity, automation, scale, and modularization. The comprehensive treatment process for food waste consists of a feeding system, an automatic sorting and crushing system, a storage system, a dehydration system, a drying (or stirring fermentation) system, a conveying system, an oil water separation system, a gas supply (steam) system, a deodorization system, a feed mixing system, a packaging system, and an automatic control system.

Large or small processes and equipment can be selected based on the amount of food waste processed.





## 固废焚烧设备和回收 SOLID WASTE INCINERATION AND RECYCLING EQUIPMENT

### XSL小型垃圾焚烧炉 XSL SMALL WASTE INCINERATOR



#### 设计基准 DESIGN DATUM

- 1、炉体型式：立式炉本体燃烧室
- 2、焚烧能力：10-5000Kg/h
- 3、燃烧器：意大利进口
- 4、点火方式：自动点火
- 5、采用燃料：柴油
- 6、设计热值：2000Kcal/kg
- 7、废气处理方式：高温旋风涡流燃烧+二次燃烧+尾气净化排放
- 8、焚烧温度：一次室：600-850℃ 二次室：850-1000℃
- 9、烟气停留时间：≥2秒
- 10、焚烧残渣的热灼减率：≤5%
- 11、使用寿命：10年以上

- 1, furnace body pattern: Vertical stove main body combustion chamber
- 2, burning down ability: 10-5000Kg/h
- 3, burner: Italy imports
- 4, the ignition way: Auto-ignition
- 5, uses the fuel: Diesel oil
- 6, design calorific value: 2000Kcal/kg
- 7, waste gas processing mode: The high temperature spurts the wind turbulent flow combustion + two combustion + exhaust purification to discharge
- 8, the burning down temperature: A room: 600-850℃ two rooms: 850-1000℃
- 9, haze resident time: ≥2 second
- 10, the burning down residual's heat burns the decrement rate: <5%
- 11, service life: above 10 years

医疗垃圾，经过人工分批定量送入炉本体，由点火温控燃烧机点火燃烧，根据燃烧三T（温度、时间、涡流）原则，在炉本体燃烧室内充分氧化、热解、燃烧，产生之烟气进入二次燃烧室通过高温燃烧，再次在燃烧室中烟气停留2秒钟，使之有害气体在高温下完全烧尽，充分分解有害病菌，再经过洗涤设备除去粉尘及酸性气体等有害物质，排放时达到无异味、无恶臭、无烟、无二次污染之效果，完全符合国家环保及医疗法规的标准，然后将达标的洁净气体经烟囱排放至大气中，燃烧后产生之灰烬由人工取出、筛分、转移并掩埋。

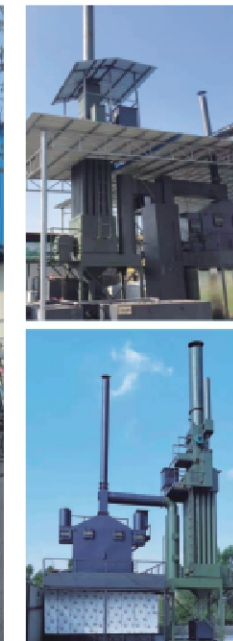
Medical trash, passes through the artificial quota to send in the stove main body in turn, by ignites controls the combustion machine ignition combustion warm, according to burns three T (temperature, time, turbulent flow) the principle, in stove main body combustion chamber full oxidation, thermal decomposition, combustion, produces the haze to enter two time combustion chamber through the high temperature combustion, the haze pauses 2 seconds once more in the combustion chamber, causes it noxious gas to burn the cinders completely under the high temperature, full decomposition harmful germ, again after wash equipment except dust and acidic gas and so on deleterious substance, when emissions achieves without the unusual smell, does not have the odor, smokelessly, not to have effects of the two pollution, conforms to the national environmental protection and the medical laws and regulations completely. The standard, will then attain a designated standard pure gas after chimney emissions to atmosphere, after the combustion, produces the ashes by to take out, the screening, to shift and to bury artificially.

#### 安全指标 SECURITY TARGET

- 1、本焚烧炉装有安全保护装置，燃烧器启动后点火不正常时，能安全自动切断燃料供应，使设备停止运行。
- 2、在停止运行前，装置有对燃烧室冷却程序的检测，使燃烧室温度下降到设定温度时，焚烧炉停止一切运行。
- 3、控制柜与各控制设备之间有连接保护装置，以免发生漏电，在相对湿度85%时，电器回路绝缘电阻不小于24MΩ，并有接地线传送漏电，电源连接外有金属软管保护。
- 4、本设备经过技术部门检验验证后出厂，确保客户方的正常运行。

- 1, when this incinerator is loaded with the safety device, after the burner starts, ignites is not normal, can the safe automatic turnover supply of fuel, cause the equipment to stop the movement.
- 2, before the stop movement, the installment has to the combustion chamber cools the procedure the examination, causes the combustion chamber temperature drop to when establishes the temperature, the incinerator stops all movements. between
- 3, the control cubicle and each control device have the connection protective device, in order to avoid has the leakage, when relative humidity 85%, the electric appliance return route dielectric resistance is not smaller than 24MΩ, and has meets the grounding transmission leakage, outside the power source connection has the metal vlexible hose protection.
- 4, this equipment examines the confirmation after the technical department leave the plant, guarantee the customer side the normal operation.

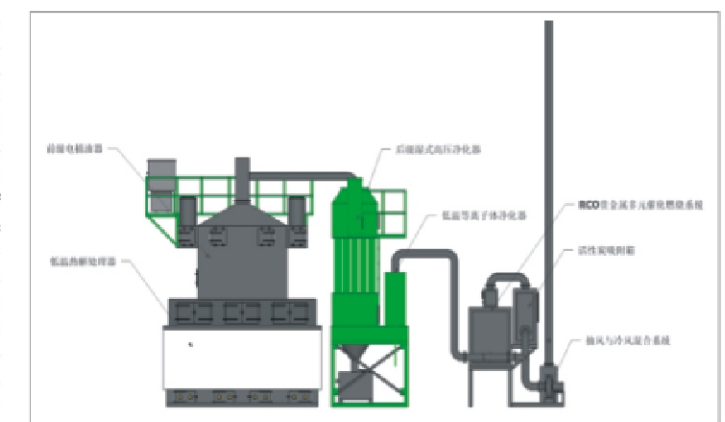
### 低温裂解焚烧炉 LOW-TEMPERATURE PYROLYSIS INCINERATOR



#### 技术特点 TECHNICAL FEATURE

生活垃圾经过简单分选，去除生活垃圾中的不可处理物质（如玻璃、陶瓷、石头、金属等），将余下部分的生活垃圾从处理器顶部侧面进料口送入处理器热解。处理器内模拟地球微量磁场环境，投入的生活垃圾经一次加热启动将垃圾加热至热解温度，通入经磁化激活后的气体提高导热效能，控制进入炉体内的氧气量进行厌氧热化学反应，生活垃圾开始自动分解，释放的有机物热能提供持续反应条件，同时分解出水蒸汽、烟焦油、可燃气、有害气和矿物质灰分，滤渣和炉灰经炉底部排灰口排出。热解过程产生的烟气由下至上通过烟气净化处理设备和多元催化等处理后无烟无色达标排放。

The domestic garbage is simply sorted to remove the non-treatable substances (such as glass, ceramics, stone, metal, etc.) in the domestic garbage, and the rest of the domestic garbage is sent to the processor for pyrolysis from the side feed inlet at the top of the processor. The processor simulates the micro-magnetic field environment of the earth. The input domestic waste is heated to the pyrolysis temperature after a heating start. The magnetized activated gas is introduced to improve the thermal conductivity. The amount of oxygen entering the furnace is controlled for anaerobic thermochemical reaction. The domestic waste starts to decompose automatically. The released organic heat energy provides a continuous reaction condition. At the same time, the effluent steam, smoke tar, combustible gas, harmful gas and mineral ash are decomposed. The filter slag and furnace ash are discharged through the ash outlet at the bottom of the furnace. The flue gas generated in the pyrolysis process is smokeless and colorless after being treated by flue gas purification equipment and multi-catalyst from bottom to top.



型号 Model	产量T/day Output	外形尺寸 (m) Overall dimension	尾气排放高度 (m) Exhaust emission height	电源 Electricity	自重 (T) Weight	装机功率 (W) Power	日耗电量 (kw/d) Power consumption	服务人口 Service population
NJ-S-2000	1-2	2.2×1.65×2.7	15	220V/50HZ	7	9000	96	≤2500
NJ-S-5000	3-5	3.8×2.2×2.7	15	380V/50HZ	13	9000	168	≤8000
NJ-S-8000	6-8	5.5×2.2×2.7	15	380V/50HZ	17	12000	216	≤12000
NJ-S-10000	8-10	7.5×2.2×2.7	15	380V/50HZ	22	14000	256	≤15000
NJ-S-15000	12-15	12×2.2×2.7	15	380V/50HZ	29	20000	320	≤20000
NJ-S-20000	18-20	16×2.2×2.7	15	380V/50HZ	35	40000	580	≤30000