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拓路智能装备

TUOLU INTELLIGENT EQUIPMENT

污水、污泥、固液分离处理设备

科技创新 造福人类 专注专业 服务大众

TECHNOLOGICAL INNOVATION BENEFIT MANKIND FOCUSON PROFESSIONAL
SERVING THE PUBLIC

山东拓路智能装备有限公司

SHANDONG TUOLU INTELLIGENT EQUIPMENT CO., LTD.

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专注污水、污泥、固液分离处理设备的设计、研发、制造
FOCUS ON SEWAGE AND SLUDGE SOLID-LIQUID SEPARATION
PROCESSING EQUIPMENT DESIGN DEVELOPMENT MANUFACTURE



山东拓路智能装备有限公司
SHANDONG TUOLU INTELLIGENT EQUIPMENT CO.,LTD.



关于我们

About Us

山东拓路智能装备有限公司，位于山东省诸城市高新技术产业园内，公司占地20000平方米，现有员工100余人，其中中高级工程技术人员30余人、公司注册资金2000万元。公司致力智能装备、自动化设备、环保设备的研发与设计，是集设计、制造、安装为一体的高新技术企业。公司资质齐全，设备先进，技术力量雄厚，检测手段齐全，具有ISO9001-2008质量体系认证。

公司目前有两大支柱产业，一是专业制造畜禽无害化处理设备及屠宰废弃物处理设备、生化处理设备、餐厨垃圾无害化处理设备、畜禽粪便无害化处理设备(沼气、有机肥成套设备)采用的是目前世界上先进的全自动处理工艺，处理方法有干化法和湿化法。二是污水、污泥、废气处理设备，拥有先进的工业污水、生活污水、医院污水、屠宰污水处理工艺，生产埋地式污水处理设备、智能中水回用一体化装置、MBR膜生物反应器、气浮设备、带式压滤机、陶瓷圆盘真空过滤机、RTO蓄热式焚烧炉、太阳能污泥无害化处理设备等。

长期以来，公司始终坚持“以科技求发展，以质量求生存”的方针，以“狠抓质量求信誉，强化管理争一流”为目标，开拓进取，努力开拓市场。公司全体员工愿以优异的产品、良好的服务、真诚的态度，创造企业新形象。

Shandong TuoLu Intelligent Equipment Co., Ltd., located in Shandong Province, Zhucheng City high tech Industrial Park, the company covers an area of 20000 square meters, the existing staff of more than 100 people, including senior engineering and technical personnel more than 30 people, the company registered capital of 2000 million yuan. Company is committed to intelligent equipment, automation equipment, environmental protection equipment R & D and design, is set design, manufacture, installation as one of the high-tech enterprises. Company qualification complete, advanced equipment, strong technical force, complete testing means, with a sound and stable quality assurance system.

Company currently has two big pillar industry, one of the professional manufacturing livestock harmless treatment equipment and Slaughter Waste processing equipment, biochemical treatment equipment, kitchen garbage harmless of processing equipment, using the world's advanced full automatic processing technology, processing method with dry method and wet method. Second, sewage and sludge treatment equipment, with advanced industrial wastewater and domestic sewage, hospital sewage, slaughter wastewater treatment process, production buried sewage treatment equipment, intelligent water back device integration, MBR membrane bioreactor, air flotation equipment, filter press, ceramic disc vacuum filter, RTO regenerative incinerator, solar sludge harmless treatment equipment etc..

For a long time, the company always adhere to the "science and technology for development, quality of survival," the principle of "pay close attention to quality and credibility, strengthen management for class" as the goal, to forge ahead, and strive to open up the market. All employees of the company is willing to excellent products, good service, sincere attitude, to create a new image of the enterprise.

公司实力 Company Strength

山东拓路智能装备有限公司严格依照ISO9001-2008质量标准体系的要求，从产品开放设计、原材料购进、生产制造、销售及服务过程，建立了一套完善、适用而有效的品质保证体系，使可能影响产品质量和工作质量的所有环节均处于严格而有效的监控之下。近年来公司已为国内多家企业提供成套污水处理工艺及设备，设备运行稳定、维护成本低，处理工艺完美、出众，受到客户一致好评。

Shandong TuoLu intelligent equipment co., LTD., in strict accordance with ISO9001-2008 quality standard system, open from product design, raw material purchase, manufacture, sales and service process, establish a set of perfect, suitable and effective quality assurance system, may affect the product quality and quality of work so link under strict and effective monitoring. In recent years, the company has more than for domestic enterprises to provide complete sets of technology and equipment, equipment operation stability, low maintenance cost, perfect and superior treatment process, by the customer consistent high praise.





污水处理设备

SEWAGE TREATMENT EQUIPMENT

A/O埋地式一体化污水处理设备

A/O UNDERGROUND INTEGRATED SEWAGE TREATMENT EQUIPMENT



用途与介绍

USE TO BRIEF INTRODUCE

适用于宾馆、饭店、疗养院、医院、学校、商场、居住小区、村镇、船舶码头、车站、机场、工厂、矿山、旅游点、风景区等生活污水或生活污水类似的各种工业有机污水的处理。

该产品通过省级鉴定。获国家星火、火炬计划项目，国家级新品。

Suitable for hotels, restaurants, nursing homes, hospitals, schools, shopping malls, residential areas, villages and towns, the ship docks, stations, airports, factories, mines, tourist attractions, scenic spots such as sewage treatment or sewage similar industrial organic wastewater treatment. The product through the provincial identification. Won the national Torch Program, spark, national new products.

结构原理

THE STRUCTURE PRINCIPLE

TLWSZ型设备所有设施均设置在若干个箱体内，箱体根据用户需要的材质制作，各箱体间用（不锈）钢管或4BS管连接，并采用化工部推荐产品氯磺化聚乙烯防腐涂料，防腐寿命一般可达十年以上。

TLWSZ型设备主要是对生活污水及相似的工业有机污水的处理，其主体工艺采用生物处理技术接触氧化法。

All the facilities of TLWSZ equipment are set up in a number of box body, box according to the needs of the user material, each box with (stainless) steel pipe or 4BS pipe connection, and the use of chemical products recommended by the Ministry of chlorosulfonated polyethylene anti-corrosion coatings, anti-corrosive effect can reach more than ten years. TLWSZ equipment is mainly for domestic sewage and similar industrial organic sewage treatment, the main body of the process using biological treatment technology contact oxidation.

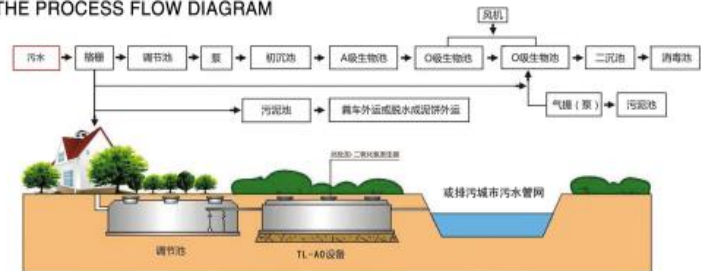
设备特点

CHARACTERISTIC

1. A/O埋地式一体化污水处理设备，埋设于地表以下，设备上面的地表可作为绿化或其他用地，不需要建房及采暖、保温。
2. 二级生物接触氧化处理工艺均采用推流式生物接触氧化，其处理效果优于完全混合式或二级串联完全混合式生物接触氧化池。并比活性污泥池体积小，对水质的适应性强，耐冲击负荷性能好，出水水质稳定，不会产生污泥膨胀。池中采用新型弹性立体填料，比表面积大，微生物易挂膜，脱膜，在同样有机负荷条件下，对有机物去除率高，能提高空气中的氧在水中溶解度。
3. 生化池采用生物接触氧化法，其填料的体积负荷比较低，微生物处于自身氧化阶段，产泥量少，仅需三个月（90天）以上排一次泥（用粪车抽吸或脱水成泥饼外运）。
4. 该埋地式生活污水处理设备的除臭方式除采用常规高空排气，另配有土壤除臭措施。
5. 整个设备处理系统配有全自动电气控制系统和设备故障报警系统，运行安全可靠，平时一般不需要专人管理，只需适时地对设备进行维护和保养。

工艺流程图

THE PROCESS FLOW DIAGRAM



主要技术参数

MAIN TECHNIQUE PARAMETER

型号	TL-AO							
	0.5	1	3	5	10	20	30	
处理量 (m³/h)	0.5	1	3	5	10	20	30	
风机 型号	GHBH00512/R2	GHBH00512/R2	GHBH00712/R4	GHBH00712/R4	GHBH00736/R8	GHBH00736/R8	GHBH00536/R8	
(仅供参考) 功率 (kw)	0.55	0.55	1.5	1.5	4	4*2	5.5*2	
水泵 型号	AS10-2CB	AS10-2CB	AS10-2CB	AS10-2CB	AS10-2CB	AS16-2CB	AS16-2CB	
(仅供参考) 功率 (kw)	1.1	1.1	1.1	1.1	1.1	2.2	2.2	
进水 BOD/mg/L	150-400	150-400	150-400	150-400	150-400	150-400	150-400	
出水 BOD/mg/L	20-30	20-30	20-30	20-30	20-30	20-30	20-30	
设备尺寸 (mm)	H	1500	1900	2400	2700	2600	2700	3000
	H1	1000	1300	1800	2100	1800	1900	2100
	H2	1000	1300	1700	2100	1900	2100	2300
	Dm	80	80	80	80	100	100	100
	Dn	80	80	100	100	100	125	125

注：1. 当进水BOD₅≤200mg/L，则出水BOD₅≤30mg/L。

2. 检查孔高度为200；H：设备高度（进出口口超高150）；H1：进水管离地高度；H2：出水管离地高度；DN1：进水管公称直径；DN2：出水管公称直径。

污水处理设备

SEWAGE TREATMENT EQUIPMENT

MBR膜生物反应器

MBR MEMBRANE BIOREACTOR



简介 INTRODUCTION

膜生物反应器 (Membrane-Bioreactor, 简称MBR) 是一种将膜分离技术与传统污水生物处理工艺有机结合的新型高效污水处理工艺。它通过膜组件的高效分离作用, 大大提高了泥水分离效率, 并且由于曝气池中活性污泥浓度的增大和污泥中特效菌的出现, 提高了生化反应速率。该工艺能大大减少剩余污泥的产量 (甚至为零), 从而基本解决了传统生物处理法存在的剩余污泥产量大、占地面积大、运行效率低等问题。

Membrane bioreactor (MBR) is a new type of high efficiency sewage treatment technology which combines membrane separation technology with traditional wastewater biological treatment technology in Membrane-Bioreactor. Through the high efficiency separation of the membrane components, the slurry separation efficiency is greatly improved, and the biochemical reaction rate is improved by increasing the concentration of the activated sludge in the aeration tank and the emergence of the specific bacteria in the sludge. This process can greatly reduce the production of excess sludge (even zero), which basically solved the problems of the traditional biological treatment method, such as large production, large area, low efficiency and so on.

主要技术参数 MAIN TECHNIQUE PARAMETER

膜片型号	外形尺寸长×宽 (mm)	膜面积 (m ²)	产水量 (m ³)	出水浊度 (NTU)	出水悬浮物 (mg/l)
MBR-8	810×525	8	1.0-1.2	<1	<10
MBR-10	1050×525	10	1.2-1.5	<1	<10
MBR-16	1050×535	16	2.0-2.5	<1	<10

测定条件: 1、运行压力: -0.03MPa 2、膜通量: 6-8L/(m².h)

智能型中水回用一体化装置

INTELLIGENT INTEGRATION OF WATER REUSE DEVICE



简介 INTRODUCTION

智能型中水回用一体化装置是将MBR膜分离技术和生物处理技术与智能化控制技术有机结合起来的一体化成套水处理设备, 克服了传统污水处理工艺的流程冗长, 占地面积大, 操作管理复杂等特点, 具有结构紧凑, 外观美观, 占地面积小, 运行费用低, 稳定可靠, 自动化程度高, 维护操作方便等优点。该装置工艺取代了传统工艺中的二沉池, 它可以高效地进行固液分离, 得到直接使用的稳定中水。又可在生物池内维持高浓度的微生物量, 工艺剩余污泥少, 极有效地去除氨氮, 出水悬浮物和浊度接近于零, 出水中细菌和病毒被大幅度去除, 出水水质优于中水水质标准 (超过国家一级A标准)。该装置适合于住宅小区、办公楼、商场、宾馆、饭店、机关、学校、部队、医院、高速公路、铁路、工厂等生活污水和与之类似的屠宰、纺织、啤酒、造纸、制革、食品、化工等行业中小型规模工业废水的处理和回用。我公司生产的智能型中水回用一体化装置有5t/d, 25t/d, 50t/d, 100t/d, 150t/d, 200t/d, 300t/d, 500t/d等规格 (可根据用户要求定做)。

Intelligent water reuse integration device is the MBR membrane separation technology and biological treatment technology and intelligent control of the integration of the complete water treatment equipment technology organically, to overcome the traditional process of wastewater treatment process is long, covers an area of large, complex operation and management, has the advantages of compact structure, beautiful appearance, small footprint, operation low cost, stable and reliable, high degree of automation, convenient operation and maintenance and other advantages. The device process replaces the two settling tank in the traditional process, which can be used for solid-liquid separation efficiently, and can be used to obtain the stable reclaimed water. Can maintain a high concentration of microbial biomass in biological process pool, less residual sludge, effectively remove ammonia water, suspended solids and turbidity are close to zero, bacteria and viruses in water can be removed, the effluent water quality is better than the water quality standard (more than the national standard A). The device is suitable for residential, office buildings, shopping malls, hotels, restaurants, offices, schools, hospitals, army, highway, railway, factory, sewage and similar slaughtering, textile, papermaking, tanning, beer, food, chemical and other industries of medium and small scale industrial wastewater treatment and reuse. Our production of intelligent water reuse integrated device has 5t/d, 25t/d, 50t/d, 100t/d, 150t/d, 200t/d, 300t/d, 500t/d and other specifications (according to user requirements can be customized).



污水处理设备

SEWAGE TREATMENT EQUIPMENT

A/O埋地式一体化污水处理设备

A/O UNDERGROUND INTEGRATED SEWAGE TREATMENT EQUIPMENT



用途与介绍

USE TO BRIEF INTRODUCE

适用于宾馆、饭店、疗养院、医院、学校、商场、居住小区、村镇、船舶码头、车站、机场、工厂、矿山、旅游点、风景区等生活污水或生活污水类似的各种工业有机污水的处理。

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Suitable for hotels, restaurants, nursing homes, hospitals, schools, shopping malls, residential areas, villages and towns, the ship docks, stations, airports, factories, mines, tourist attractions, scenic spots such as sewage treatment or sewage similar industrial organic wastewater treatment. The product through the provincial identification. Won the national Torch Program, spark, national new products.

结构原理

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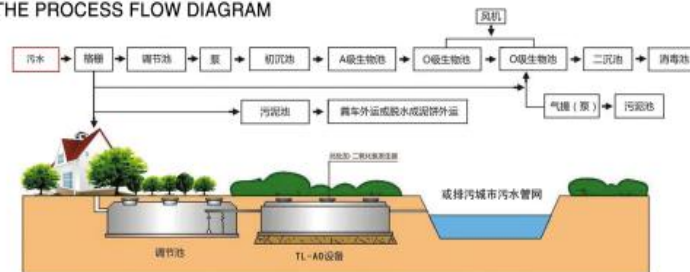
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3. 生化池采用生物接触氧化法，其填料的体积负荷比较低，微生物处于自身氧化阶段，产泥量少，仅需三个月（90天）以上排一次泥（用粪车抽吸或脱水成泥饼外运）。
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工艺流程图

THE PROCESS FLOW DIAGRAM



主要技术参数

MAIN TECHNIQUE PARAMETER

型号	TL-AO						
	0.5	1	3	5	10	20	30
处理量 (m³/h)	0.5	1	3	5	10	20	30
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智能型中水回用一体化装置

INTELLIGENT INTEGRATION OF WATER REUSE DEVICE



简介 INTRODUCTION

智能型中水回用一体化装置是将MBR膜分离技术和生物处理技术与智能化控制技术有机结合起来的一体化成套处理设备, 克服了传统污水处理工艺的流程冗长, 占地面积大, 操作管理复杂等特点, 具有结构紧凑, 外观美观, 占地面积小, 运行费用低, 稳定可靠, 自动化程度高, 维护操作方便等优点。该装置工艺取代了传统工艺中的二沉池, 它可以高效地进行固液分离, 得到直接使用的稳定中水。又可在生物池内维持高浓度的微生物量, 工艺剩余污泥少, 极有效地去除氨氮, 出水悬浮物和浊度接近于零, 出水中细菌和病毒被大幅度去除, 出水水质优于中水水质标准 (超过国家一级A标准)。该装置适用于住宅小区、办公楼、商场、宾馆、饭店、机关、学校、部队、医院、高速公路、铁路、工厂等生活污水和与之类似的屠宰、纺织、啤酒、造纸、制革、食品、化工等行业中小型规模工业废水的处理和回用。我公司生产的智能型中水回用一体化装置有5t/d, 25t/d, 50t/d, 100t/d, 150t/d, 200t/d, 300t/d, 500t/d等规格 (可根据用户要求定做)。

Intelligent water reuse integration device is the MBR membrane separation technology and biological treatment technology and intelligent control of the integration of the complete water treatment equipment technology organically, to overcome the traditional process of wastewater treatment process is long, covers an area of large, complex operation and management, has the advantages of compact structure, beautiful appearance, small footprint, operation low cost, stable and reliable, high degree of automation, convenient operation and maintenance and other advantages. The device process replaces the two settling tank in the traditional process, which can be used for solid-liquid separation efficiently, and can be used to obtain the stable reclaimed water. Can maintain a high concentration of microbial biomass in biological process pool, less residual sludge, effectively remove ammonia water, suspended solids and turbidity are close to zero, bacteria and viruses in water can be removed, the effluent water quality is better than the water quality standard (more than the national standard A). The device is suitable for residential, office buildings, shopping malls, hotels, restaurants, offices, schools, hospitals, army, highway, railway, factory, sewage and similar slaughtering, textile, papermaking, tanning, beer, food, chemical and other industries of medium and small scale industrial wastewater treatment and reuse. Our production of intelligent water reuse integrated device has 5t/d, 25t/d, 50t/d, 100t/d, 150t/d, 200t/d, 300t/d, 500t/d and other specifications (according to user requirements can be customized).

污水处理设备

SEWAGE TREATMENT EQUIPMENT

UASB厌氧反应器

UASB UPFLOW ANAEROBIC SLUDGE BLANKET REACTOR



应用特点 CHARACTER

- 高COD负荷
(5-10kgCODcr/m²/d)
- 可产生高沉降性能的颗粒污泥
- 可以产生能源(沼气)
- 运行费用低
- 高可靠性

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

简介 INTRODUCTION

UASB上流式厌氧污泥床反应器是本公司在消化、吸收国内外成果基础上, 开发研制的有机废水处理技术。已成功应用于多种工业废水处理。

UASB up flow anaerobic sludge bed reactor is an organic wastewater treatment technology developed on the basis of digestion and absorption of domestic and foreign research results. Has been successfully applied to a variety of industrial wastewater treatment.

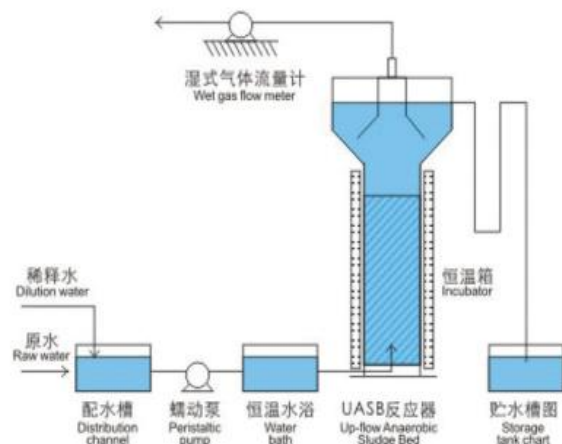
工作原理 WORKING PRINCIPLE

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。

The upper part of the UASB reactor set gas, solid and liquid separator, the lower sludge suspension layer and sludge bed zone, waste water from the bottom of the reactor uniform pump into the sludge bed and anaerobic sludge zone, full contact reaction, organic matter decomposition into biogas by anaerobic microorganisms. Liquid, gas and solid mixed liquid flow up to the three-phase separator, so that the three very good separation, so that more than 80% of the organic matter is converted into methane, complete wastewater treatment process.

UASB反应器示意图

SCHEMATIC DIAGRAM OF UASB REACTOR



主要技术参数

MAIN TECHNIQUE PARAMETER

型号	反应器有效容积 (m ³)	处理能力		
		高浓度	中等浓度	低浓度
TLUASB-50	50	1000/500	500/250	200/100
TLUASB-100	100	2000/1000	1000/500	400/200
TLUASB-200	200	4000/2000	2000/1000	800/400
TLUASB-500	500	10000/5000	5000/2500	2000/1000
TLUASB-1000	1000	20000/10000	10000/5000	4000/2000

注: 处理能力中分子为中温条件 (35℃左右), 分母为常温条件 (20-25℃);

反应器可为正方形、长方形或圆形, 方形为钢筋混凝土结构、圆形为钢结构或钢筋混凝土结构;

反应器的具体尺寸需要根据进水的的水质特征确定。



污水处理设备

SEWAGE TREATMENT EQUIPMENT

溶气气浮机 (平流式)

DISSOLVED AIR FLOATATION MACHINE (FLAT-FLOW TYPE)



简介 INTRODUCTION

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。处理能力大，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。

该设备主要用于固-液或液-液分离。通过溶气和释气系统在水中产生大量的微气泡，使其粘附于废水中密度与水接近的固体或液体微粒上，造成整体密度小于水的状态，并依靠浮力使其上升至水面，从而达到固-液或液-液分离的目的。

应用范围 APPLICATION

1. 电镀废水的重金属离子，如锌、铜、铅等总含量在50PPM以下，去除率均可在70%以上。
1. 分离地表水中细小悬浮物，藻类等微聚体
2. 回收工业废水中有用物质，如造纸废水中纸浆等。
3. 代替二沉池分离和浓缩水中污泥等悬浮物。

技术参数 TECHNICAL PARAMETERS

型号	处理能力 m ³ /h	溶气水量 m ³ /h	主电机功率 kw	副电机功率 kw	空压功率 kw	空压机型号	清水架型号	溶气罐规格 mm	外形尺寸 mm
TLFF-5	4-5	1.5-2	3	0.55	1.5	V-0.1/8	1'2G25-1	φ400×1000	3000×2200×1900
TLFF-10	8-10	2-3	3	0.55	1.5	V-0.147	1'2G2C-5×2	φ500×1500	4000×2200×2400
TLFF-15	10-16	3.5-5	3	0.55	2.2	V-0.147	1'2G2C-5×2	φ500×1500	4500×2200×2400
TLFF-20	15-21	5-7	7.5	0.55	2.2	V-0.147	2G2C-5×2	φ500×1500	5000×2700×2400
TLFF-30	20-30	6-10	7.5	0.55	2.2	V-0.147	2'2G2C-5×2	φ500×1500	6000×2700×2400
TLFF-40	30-40	8-13	7.5	0.75	2.2	V-0.147	2'2G2C-5×2	φ600×1800	6000×3100×2400
TLFF-50	40-50	15-20	7.5	0.75	2.2	V-0.147	IS65-40-200	φ600×1800	6500×3100×2400
TLFF-60	50-60	18-27	7.5	0.75	2.2	V-0.147	IS65-40-200	φ600×1800	7000×3100×2600
TLFF-80	70-80	24-32	7.5	0.75	2.2	V-0.147	IS80-65-160	φ650×1900	9000×3100×2600
TLFF-100	90-105	30-35	10	1.1	3	V-0.36/7	IS80-80-200	φ700×2000	11000×3100×2600
TLFF-150	125-150	60-80	15	1.1	3	V-0.36/7	IS150-80-400	φ700×2000	13000×3700×2600
TLFF-200	175-200	80-100	15	1.1	3	V-0.36/7	IS150-80-400	φ800×2100	14000×3700×2600
TLFF-250	225-250	100-120	15	1.1	3	V-0.36/7	IS150-80-400	φ800×2400	15000×3700×2600
TLFF-300	280-300	120-180	22	1.1	3	V-0.67/7	IS150-125-400B	φ1000×2900	16000×3700×2600

溶气气浮机 (竖流式)

DISSOLVED AIR FLOATATION MACHINE (VERTICAL FLOW)



简介 INTRODUCTION

溶气气浮机为钢结构，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。

应用范围 APPLICATION

1. 电镀废水的重金属离子，如锌、铜、铅等总含量在50PPM以下，去除率均可在70%以上。
2. 印染废水的色度去除率达90%左右，COD去除率60-70%左右，BOD去除率50%左右。
3. 食品屠宰和制革废水的COD去除率70%左右，悬浮固体去除率90%左右。
4. 炼油废水的油脂，可降至10毫克/升以下，废水能达到澄清程度。
5. 对化工废水和颜料油漆等，COD去除率74%，色度去除率93%左右。
6. 造纸白水的纤维回收率可达到95%左右，COD去除率86.7%左右，清水完全回用。
7. 大池沐浴水浊度可稳定在10度以下，水中的细菌有较大幅度下降。
8. 生活饮用水及工业的浊度可净化到5度以下，同时对色度耗氧量降低有良好的效果。

技术参数 TECHNICAL PARAMETERS

型号	处理能力 (m ³ /h)	罐体直径 (mm)	罐体高度 (mm)
TLSL-10	10	2000	2500
TLSL-20	20	2400	2500
TLSL-30	30	2400	3750
TLSL-50	50	2800	4000
TLSL-75	75	3400	4250
TLSL-100	100	4000	5000
TLSL-150	150	4800	5000
TLSL-200	200	5600	5500
TLSL-250	250	6000	5500
TLSL-300	300	6800	5500

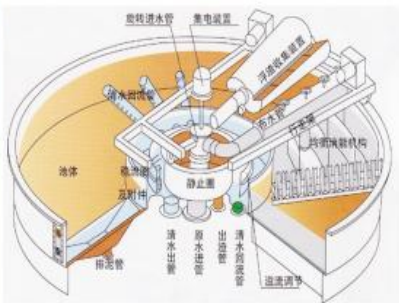


污水处理设备

SEWAGE TREATMENT EQUIPMENT

高效浅层气浮机

EFFICIENT SHALLOW AIR FLOTATION MACHINE



简介 INTRODUCTION

高效浅层气浮机在给水处理工艺程序中，固、液分离技术及其设备是关键工艺之一。对于比重接近于水的微小悬浮颗粒的去除，气浮是最有效的方法。该设备成功运用“浅池理论”和“零速”原理进行设计，集絮凝、气浮、撇渣、沉淀、刮泥于一体，是一种高效节能的水质净化设备。广泛应用于给排水处理工程。第一，应用于以湖泊为水源自来水厂的水处理，除藻降浊。第二，应用于工业污水处理工程，如石油化工、造纸、纺织、印染、电镀、制革、食品工业等领域。第三，应用于污水中有用物质的回收，如：造纸、浆粕水中的纤维回收等。

he solid and liquid separation technology and its equipment are one of the key technologies in the process of water supply and drainage treatment. Air flotation is the most effective method for the removal of small suspended particles that are close to water. The device successfully uses the "shallow pool theory" and "zero speed" principle to design, set flocculation, flotation, skim, precipitation, scraping mud and one, is a kind of high efficiency and energy saving water purification equipment. Widely used in water supply and drainage treatment project. First, applied to the lake water plant water treatment, in addition to algae and turbidity. Second, used in industrial wastewater treatment projects, such as petrochemical, paper, textile, printing and dyeing, electroplating, tanning, food industry and other fields. Third, applied to the sewage recovery of useful substances, such as paper, pulp fiber recycling water.

技术参数 TECHNICAL PARAMETERS

型号	池径 (mm)	圆盘总高度 (mm)	处理量 (m³/h)	主机总功率 (kw)	分离区面积 (m²)	工作载荷 (t)	配气系统功率 (kw)
TLQC25	Φ3000	1100	25	1.3	6	12	7
TLQC45	Φ3500	1100	45	1.85	10	16.8	7
TLQC70	Φ5000	1100	70	2.6	16	21.1	9
TLQC110	Φ6000	1100	110	3.3	26	28	17
TLQC150	Φ7000	1125	150	3.3	35	40	21
TLQC200	Φ8000	1150	200	3.3	46.4	45	23.5
TLQC250	Φ9000	1200	250	3.3	58	46	23.5
TLQC300	Φ10000	1200	300	5.2	70	57	31.5
TLQC400	Φ11000	1200	400	6.2	93	68	45
TLQC450	Φ12000	1200	450	6.2	105	81	45
TLQC500	Φ13000	1200	500	6.2	115	93	46.5
TLQC600	Φ14000	1200	600	6.2	140	110	46.5

尼克尼泵式气浮机

NIKUNI TYPE AIR FLOATING MACHINE



工作原理 WORKING PRINCIPLE

该设备充气段由尼克尼泵来完成，处理后清水回流至尼克尼泵，经气水混合后再进入气浮池。未经处理的污水进入气浮池，污水在上升的过程中与溶气后的回流水充分混合，进入气浮段。

由于气水混合物和液体之间的不平衡，产生了一个垂直向上的浮力，将固体悬浮物带到水面，上浮过程中，微气泡会附着到悬浮物上，到达水面后固体悬浮物便依靠这些气泡支撑和维持在水面，并通过呈辐射状的气流推力来清除。

浮在水面上的物体是浮物连续地被刮渣机清除，刮渣机沿着整个液面运动，并将是浮物从气浮槽的进口端推到出口端。刮渣机的刮板被固定在链条的两端，刮渣机是由一个电机带动传动装置来驱动，刮渣机沿着槽的整个宽度移动，将污染物刮到倾斜的金属板上，再将其推入浮渣排放管道排出，净化后的污水经溢流管排放。溢流槽用来控制气浮槽内水位以确保槽中的液体不会流入浮渣排放管道内。

The equipment section is completed by Nicky pneumatic pump, water pump back to Nicky after the treatment, the gas and water mixed before entering the flotation tank. Untreated sewage into the flotation tank, the sewage in the process of rising and dissolved gas after the water to fully mixed into the air flotation section. Due to the imbalance between water and gas and liquid mixture, resulting in a vertical upward buoyancy, suspended solids will be brought to the surface, the float process, micro bubbles will be attached to the suspension, after reaching the surface of suspended solids will depend on the support and maintain the bubbles in the water, and through the air in a radial thrust like to clear. The suspended matter floating on the surface of the water is continuously removed by the scraping machine, and the slag scraping machine is moving along the whole liquid level, and the suspended matter is pushed from the inlet end of the air flotation tank to the outlet end. Scraper scraper is fixed at both ends of the chain, scraper is driven by a motor drive device to drive. Slag scraper moves along the entire width of the groove, the contaminants to the metal plate tilt, and then push into the scum discharge pipe discharge. The discharged waste water is discharged through the overflow pipe. Used to control water overflow flotation tank to ensure liquid in the groove of the discharge pipe will not flow into the dross.

核心技术 FLOTATION PRINCIPLE

尼克尼泵式气浮机是专门为了去除工业和生活污水中的油脂、胶状物以及悬浮物被去除，并且设备在加入合适的化学药剂和混合剂后，可使COD及BOD在此预处理阶段去除60%以上，设备运行费用低，工作效率高，操作维修简单，相对传统的溶气气浮有很大的改进。

Nicky pump type flotation machine is designed in order to remove the industrial and domestic sewage in the oil, jelly and suspended solids are removed, and the equipment in the addition of appropriate chemical reagents and mixture, can make COD and BOD in the pretreatment stage more than 60% removal equipment, low operation cost, high working efficiency, easy operation and maintenance, relative the traditional dissolved air flotation has greatly improved.



污水处理设备

SEWAGE TREATMENT EQUIPMENT

涡凹气浮式污水处理设备

CAVITATION FLOTATION TYPE SEWAGE DISPOSAL EQUIPMENT



简介 INTRODUCTION

涡凹气浮式污水处理设备是本公司引进国外技术，最新研制开发的产品。该系统对COD、BOD去除率达85%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，广泛应用于造纸、化工、印染、炼油、淀粉、食品等行业的工业污水和城市污水的达标治理。

Cavitation air floatation type sewage treatment equipment is the company to introduce foreign technology, the latest development of products. The removal rate of more than 85% of COD, BOD, SS removal rate reached more than 90%, has the advantages of low energy consumption, high efficiency, economical operation, simple operation, low cost, small footprint, widely used in papermaking, printing and dyeing, chemical industry, oil refining, starch, food and other industries of the city sewage and industrial wastewater the standards of governance.

核心技术 FLOTATION PRINCIPLE

微气泡发生及布气技术；独特的曝气设计原理；高效的刮泥机设计及运行原理

Micro bubble generation and gas distribution technology; unique aeration design principle; design and operation principle of high efficiency mud scraper.

技术参数 TECHNICAL PARAMETERS

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

微浮选气浮污水处理机

SERIES OF MICRO-AIR BUBBLE DAF CLARIFIER



简介 INTRODUCTION

微浮选气浮机是最新研制推出的一种高科技型污水处理设备，该机可广泛用于造纸工业、纤维产品工业、化工行业、木材加工工业、食品工业、采油工业、制革工业等产业部门的生产工艺过程的固液分离和废水处理。例如，在造纸工业中可有效的进行白水处理、工艺用水处理、净化废纸脱墨工程循环水及分离活性污泥。

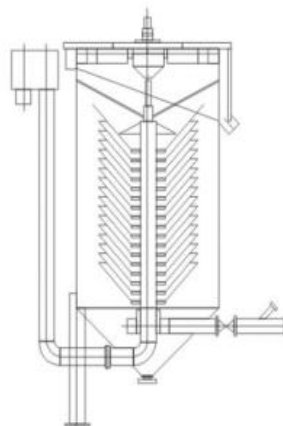
Micro flotation machine is a high-tech newly developed wastewater treatment equipment, this machine can be widely used in the production process of papermaking industry, fiber products industry, chemical industry, wood processing industry, food industry, oil industry, leather industry and other sectors of the solid liquid separation and wastewater treatment. For example, in the paper industry can be effectively carried out white water treatment, water treatment, purification of waste paper recycling water and separation of activated sludge.

设备特点 EQUIPMENT CHARACTERISTIC

1. 该设备结构紧凑、小型化、占地面积小；如日处理量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。
2. 该机动力消耗少，比普通气浮可降低50%以上。
3. 药品消耗低，比普通气浮法可降低50%以上。
4. 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。

1, the device has the advantages of compact structure, small, small occupied area; such as the daily processing capacity of 1000-4000m³ fan paper machine white water equipment, height of only 5.5 meters, covers an area of 10m², can be installed in the workshop. 2, the power consumption of the motor is less than ordinary air flotation can be reduced by more than 50%. 3, drug consumption is low, than the ordinary air flotation method can be reduced by more than 50%. 4, remove scum concentration is high, can reach more than 4%, the water is clear and transparent, SS removal rate reached more than 96%, non soluble COD can be removed.

安装示意图 INSTANTION DIAGRAM





污水处理设备

SEWAGE TREATMENT EQUIPMENT

中心传动刮吸泥机

CENTRAL TRANSMISSION MUD SCRAPER



工作原理 WORKING PRINCIPLE

中心传动刮吸泥机主要由减速驱动机构、传动力轴、刮壁、水下轴承及集泥槽刮板等部件组成，整套刮泥机的荷载都作用在固定横跨池径的工作桥上中心。

原水经中心配水筒布水后呈辐射流向池子周边溢水槽，随着流速的降低，水体中的悬浮物被分离而沉降于池底，通过减速驱动和悬挂式组件的传动，由刮板将污泥刮到中心集泥槽，依靠静水压力或泵排出池外。

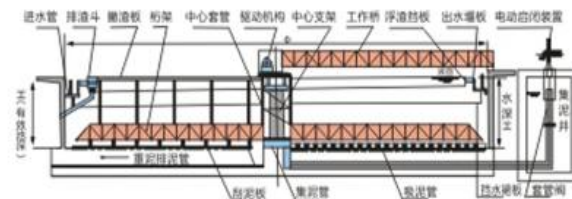
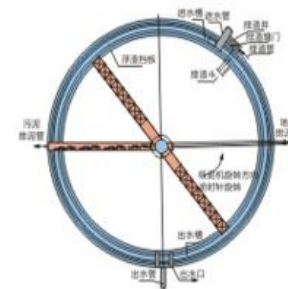
Center transmission suction machine is mainly composed of a gear drive mechanism, drive shaft, scraping the wall, water bearing and mud collecting groove scraper and other parts, the whole effect of the mud scraper in the center of the bridge load fixed across the pool size. With water raw water of the water distribution after a radiation flow pool surrounding the overflow tank, with the flow rate decreased, suspended solids in water were separated and the settlement at the bottom of the pool, the drive and suspension components, by scraping sludge scraper will be set to the center of the mud collecting groove, relying on the static pressure tank or pump discharge outside.

设备特点 CHARACTERISTICS OF THE EQUIPMENT

1. 驱动装置采用立式摆线减速机与立轴直联传动，结构紧凑，机械效率高。
2. 浓缩机的荷载由桥架承受，悬伸立轴的下端设有水下支撑，避免立轴转动时的偏摆。
3. 设置机械和电气双重过载保护，运转安全可靠。
4. 操作简单，可实现远程控制。
5. 桥架材料为碳钢（涂防锈漆），水下部件为铬镍不锈钢。

1. the driving device adopts vertical cycloid gear motor and the vertical straight league transmission, compact structure, high mechanical efficiency.
2. load concentrator consists of bridge bearing, lower overhanging vertical shaft is provided with a water support, avoid the vertical shaft rotates the swing.
3. set the mechanical and electrical double overload protection, safe and reliable operation.
4. the operation is simple, can realize remote control.
5. the bridge material is carbon steel (paint), underwater parts for chromium nickel stainless steel.

结构示意图 STRUCTURE SCHEMATIC DRAWING



技术参数 TECHNICAL PARAMETERS

型号	适用池径Φ (m)	电机功率 (KW)	周边行走速度 (m/min)		刮臂数	刮池容量 (KH)	安装尺寸 (mm)			
			初沉池	二沉池			A	B	C	D
TLZX-6	6	0.37-2.2	2-3	1.5-2.5	2	19	340	320	105	420
TLZX-7	7					22				
TLZX-8	8					24				
TLZX-9	9					26				
TLZX-10	10					29				
TLZX-11	11					31				
TLZX-12	12					34				
TLZX-13	13					36				
TLZX-14	14					39				
TLZX-15	15					41				
TLZX-16	16					44				



污水处理设备

SEWAGE TREATMENT EQUIPMENT

周边传动刮吸泥机

PERIPHERAL DRIVE MUD SCRAPER



工作原理 WORKING PRINCIPLE

周边传动刮吸泥机，主要由主梁（桁架梁或折板梁）、溢流堰、传动装置、稳流筒、中心泥罐、排泥槽、刮板、吸泥装置、浮渣收集和排除设施、输电装置。

待处理的水从中心筒进水管进入，通过稳流筒流入沉淀池然后向四周扩散沉淀，清水由池边溢流堰流出，其中沉淀物由刮泥板刮到吸泥口，根据连通管原理，利用水位差将池底污泥吸入排泥槽；通过虹吸管进入中心筒排泥管排出。同时池中浮渣由浮渣刮板收集经排渣斗排出池外。

The peripheral drive suction machine, mainly by the main beam (truss beam or plate beam), overflow weir, transmission device, flow tube, central mud tank, sludge tank, scraper, suction device, Scum Collection and removal facilities, transmission device. The water from the center of the cylinder tube into the cylinder, steady flow through the flow into the sedimentation tank and then spread to the surrounding water by precipitation, pool weir outflow, the sediment by scraping scraping set to the suction mouth, the connecting pipe principle, using the water level difference will bottom mud tank sludge suction; through Straw into the center of the rainbow mud discharge tube. At the same time in the pool by collecting scum scum scraper discharge outside the pool by slag bucket.

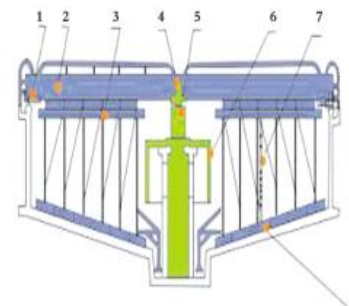
技术特点 TECHNICAL CHARACTERISTICS

1. 处理量大，可节省占地面积。
2. 该设备刮泥、吸泥、刮浮渣同时进行，能耗少，比同规格设备节能50%左右。
3. 边行进边刮泥，排出的活性污泥浓度高，排泥效果好。
4. 刮板式吸口构造简单，不易堵塞，运行安全可靠，维修方便。
5. 适用性强，易实现全自动控制。

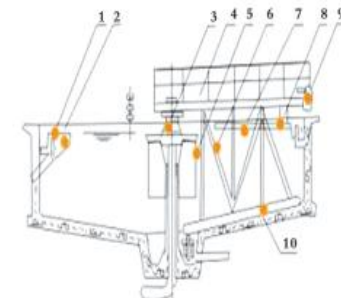
1 a large amount of treatment, can save area.

2 of the equipment, scraping mud, mud sucking and scraping scum at the same time, less energy consumption, saving about 50% compared with the same specifications of equipment.3, the edge of the mud scraper, discharge of activated sludge concentration, sludge removal effect is good.4, scraper type suction mouth structure is simple, not easy to plug, safe and reliable operation, convenient maintenance.5, the applicability is strong, easy to realize automatic control.

结构示意图 STRUCTURE SCHEMATIC DRAWING



1、驱动装置 2、工作桥 3、撇渣板 4、集电装置
5、中心支座 6、导流筒 7、行架 8、刮泥板



1、溢流装置 2、浮渣斗 3、中心支座 4、工作桥 5、导流筒
6、行架 7、撇渣板 8、浮渣耙板 9、驱动装置 10、刮泥板

技术参数 TECHNICAL PARAMETERS

型号	池径 (m)	池边深 (m)	周边速度 (m/min)	电机功率 (kw)
TLXB-20	20	3-5.6	1.6	0.37 × 2
TLXB-25	25		1.7	
TLXB-30	30		1.8	0.55 × 2
TLXB-37	37		2.0	
TLXB-45	45		2.2	0.75 × 2
TLXB-55	55		2.4	
TLXB-60	60		2.6	1.5 × 2
TLXB-80	80		2.7	
TLXB-100	100		2.8	2.2 × 2



污水处理设备

SEWAGE TREATMENT EQUIPMENT

行车式刮吸泥机

LANE DRIVING MUD SCRAPING MACHINE



简介 INTRODUCTION

行车式刮吸泥机广泛用于平流式沉淀池的污泥刮、吸。是沉淀池常用的机械排泥装置之一，广泛应用于给排水工程设置于地表或半地下的平流沉淀池沉积污泥的刮吸排除，尤其适用于斜管（板）矩形沉淀池的沉积污泥排除。

The driving type scraper and suction mud machine is widely used for the sludge scraping and sucking of the flat flow sedimentation tank. Precipitation is one of the commonly used mud pool mechanical device, is widely used in water supply and drainage engineering is arranged on the surface or semi underground horizontal flow sedimentation basin sedimentary sludge scraping and sucking out, especially suitable for the inclined tube (plate) rectangular sedimentation tank sludge removal.

技术特点 TECHNICAL CHARACTERISTICS

1. 利用虹吸排泥，运行平稳，能耗省。
2. 设备结构简单，并简化沉淀池结构，节省工程投资。
3. 边行走，边吸泥，往返工作，对污泥干扰小，排泥效果好。
4. 根据污泥沉淀情况，可调整工作行程和排泥次数，提高沉淀效果。
5. 自动化程度高，操作维护管理方便，不易发生故障。

技术参数 TECHNICAL PARAMETERS

型号	池宽 (m)	池深 (m)	行走速度 (m/min)	刮泥机流量 (m³/h)	功率 (kw)		配用吨数 (kg/m)
					行走	吸泥泵	
HJX-4	4	3.5-5	1-1.2	20-35	0.37	3	15
HJX-6	6			2 × [15-30]	2 × 0.37	2-22	
HJX-8	8			2 × [15-35]			
HJX-10	10						
HJX-12	12			2 × [50-70]	2 × 0.55	2-30	18
HJX-14	14						
HJX-16	16			3 × [50-70]	2 × 0.75	3-30	
HJX-18	18						
HJX-20	20			4 × [50-70]			
HJX-22	22						

活性炭过滤器

ACTIVATED CARBON FILTER



简介 INTRODUCTION

活性炭过滤器是一种较常用的水处理设备，作为水处理脱氯系统前处理能够吸附前级过滤中无法去除的余氯，可有效保证后级设备使用寿命，提高出水水质，防止污染，特别是防止后级反渗透膜，离子交换树脂等的游离态余氯中毒污染。同时还吸附从前级泄漏过来的小分子有机物等污染物质，对水中异味、胶体及色素、重金属离子等有较明显的吸附去除作用，还具有降低COD的作用。可以进一步降低RO进水的SDI值，保证SDI < 5, TOC < 2.0ppm。

Activated carbon filter is a more commonly used water treatment equipment, water desalination system as pretreatment can not remove the residual chlorine adsorption level filtering, can effectively ensure the service life of equipment, improve water quality, pollution prevention, especially after the class to prevent the reverse osmosis membrane, free chlorine ion exchange resin. Toxic pollution. At the same time, the adsorption of small molecule organic matter and other pollutants, such as small molecular organic matter from the previous stage, the adsorption removal of peculiar smell, colloid and pigment, heavy metal ions and so on, also has the effect of reducing COD. Can further reduce the RO water SDI value, to ensure that SDI < 5, TOC < 2.0ppm.

技术参数 TECHNICAL PARAMETERS

型号	罐体尺寸Φ×H (mm)	处理水量 (m³/h)	接口尺寸 (mm)			
			可滤进水 原状出水	连接出水 原状出水	排气口	
ZTL400	Φ400×2360	~1	32	32	15	0.48
ZTL600	Φ600×2800	~3	40	40	15	0.65
ZTL800	Φ800×3028	~5	65	65	15	1.00
ZTL1000	Φ1000×3840	~7.5	65	65	15	1.45
ZTL1200	Φ1200×4260	~11	80	80	20	1.80
ZTL1500	Φ1500×4596	~17	100	100	20	2.50
ZTL1600	Φ1600×4590	~20	100	100	20	3.00
ZTL1800	Φ1800×4620	~25	125	125	20	3.50
ZTL2000	Φ2000×4655	~31	125	125	20	4.00
ZTL2200	Φ2200×4655	~37	150	150	20	4.50
ZTL2400	Φ2400×4700	~45	150	150	20	4.90
ZTL2500	Φ2500×4751	~49	150	150	20	5.10
ZTL2600	Φ2600×4850	~53	200	200	20	5.40
ZTL2800	Φ2800×4950	~61	200	200	20	5.90
ZTL3000	Φ3000×5110	~70	200	200	20	6.30
ZTL3200	Φ3200×5260	~80	250	250	20	6.70
ZTL3600	Φ3600×5880	~100	250	250	20	7.00



污水处理设备

SEWAGE TREATMENT EQUIPMENT

BAF曝气生物滤池

BIOLOGICAL AERATED FILTER(BAF)



该工艺具有去除SS、COD、BOD、硝化、脱氮、除磷、去除AOX(有害物质)的作用,曝气生物滤池是集生物氧化和截留悬浮固体一体的新工艺。

The process has the removal of SS, COD, BOD, nitrification, denitrification, phosphorus removal, removal of AOX (harmful substances), the biological aerated filter is a set of biological oxidation and interception of suspended solids in one of the new technology.

简介 INTRODUCTION

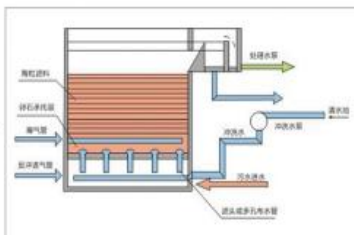
曝气生物滤池简称BAF,是我公司在普通生物滤池的基础上,借鉴给水滤池工艺而开发的污水处理新工艺,目前,已成功地将该工艺应用在印染废水的深度处理等领域。

原水进入缓冲配水区,在向上流过滤料层时,经滤料上附着生长得微生物膜净化处理后经过出水区排出,在滤池反冲洗时,较轻的滤料有可能被水流带至出水口处,可在斜板沉淀区沉降,而回流至滤池内,以保证滤池内微生物量的浓度。

Biological aerated filter is referred to as BAF, is my company in general biofilter on the basis of the new sewage treatment technology, water filter technology and the development of the reference current, has been successfully applied in the process of printing wastewater treatment and other fields. The raw water into the buffer with water, in the upward flow through the filter, the filter attached growth biofilm treatment after discharge in water, filter backwash filter, the lighter can be brought to the water outlet, the inclined plate sedimentation area settlement, and return to the filter in the ensure the concentration of microbial biomass in the filter.

技术特点 TECHNICAL CHARACTERISTICS

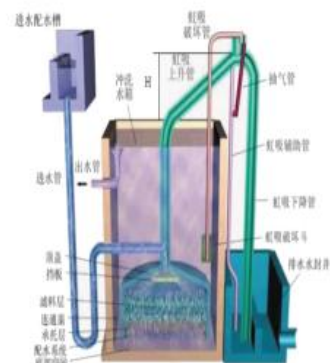
1. 一次性投资比传统方法低1/4。
2. 占用面积为常规工艺的1/10~1/5,运行费用低1/5。
3. 进水要求悬浮物50~60mg/L,最好与一级强化处理相结合,如采用水解酸化池。
4. 填料多为页岩陶粒,直径5mm,层高1.5~2m。
5. 水往下,气往上的逆向流可不设二沉池。



1. one-time investment is lower than the traditional method 1/4.
2. the occupied area of the conventional process of 1/10~1/5, low operating costs 1/5.
3. the influent requirements of suspended 50~60mg/L, preferably with a combination of enhanced treatment, such as the use of hydrolysis acidification tank.
4. the filler is shale ceramic, diameter 5mm, storey 1.5~2m.
5. the water down, gas flow upward of the reverse flow can not be set two settling tank.

重力式无阀过滤器

SERIES OF FILTRATION WITHOUT VALVE



简介 INTRODUCTION

重力式无阀过滤器主要利用虹吸原理进行定期自动冲洗,无需反洗水泵和部分阀门,广泛应用于地表水净化、地下水除铁除锰、循环水旁滤等后续工作。

Gravity valveless filter mainly regular automatic flushing with siphon principle, without backwashing pump and valve parts. Widely used in surface water purification, groundwater in addition to iron and manganese removal, recycling water filter and other follow-up work.

技术参数 TECHNICAL PARAMETERS

型号	产水量 (m ³ /h)	滤池个数	滤池形式	单体外形尺寸 (mm) LBH	单体运行重量 (kg)
TLZW-20	20	2	方形一体组合	2000 × 1100 × 4500	15450
TLZW-30	30			2000 × 1630 × 4500	22170
TLZW-40	40			2150 × 2000 × 4500	28970
TLZW-50	50			2700 × 2000 × 4500	35300
TLZW-60	60			2800 × 2500 × 4500	42880
TLZW-80	80	2	方形二体组合	3000 × 2900 × 4500	57010
TLZW-100	100			2100 × 2600 × 4500	37580
TLZW-125	125			2250 × 3000 × 4550	46230
TLZW-150	150			2720 × 3000 × 4550	54600
TLZW-175	175			3160 × 3000 × 4550	63200
TLZW-200	200	2	圆形两体组合	Φ3650 × 4800	70450
TLZW-240	240			Φ4000 × 5000	184490
TLZW-320	320			Φ4600 × 5200	113540
TLZW-400	400			Φ5200 × 5500	147490
TLZW-500	500			Φ5800 × 5600	184490
TLZW-300	300	3	圆形三体组合	Φ3650 × 4500	62180
TLZW-360	360			Φ4000 × 4500	74980
TLZW-480	480			Φ4600 × 4600	100460
TLZW-600	600			Φ5200 × 4800	137870
TLZW-750	750			Φ5800 × 4800	173190



固液分离设备

THE SOLID-LIQUID SEPARATION EQUIPMENT

机械格栅除污机

MECHANICAL GRILL



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，是目前我国最先进的固液分离设备，填补了国内空白。

Widely used in the city sewage treatment industry, power plant, tap water intake, but also special equipment as textile, food processing, paper making, leather and other essential production process in the industry, is a solid-liquid separation equipment in our country at present the most advanced. To fill the gap in the domestic.

简介 INTRODUCTION

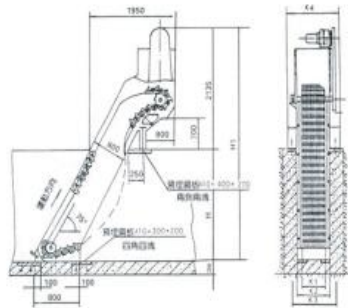
机械格栅除污机是一种可以连续自动拦截并清除流体中各种形状杂物的水处理专用设备，由ABS工程塑料、尼龙66、尼龙1010或不锈钢制成的特殊型耙齿，按一定的次序装配在耙齿轴上，形成封闭式耙齿链，其下部安装在进水中集中，在传动系统的带动下，整个耙齿链（迎水工作面）便自下而上运动，并携带固体杂物从液体中分离出来，液体则从耙齿的间隙中流过，整个工作过程连续进行。

Mechanical grate discharge machine which can automatically intercept and remove the fluid in a variety of shapes debris in the water treatment equipment, special type of tooth is made of ABS engineering plastics, nylon 66, nylon 1010 or stainless steel, according to the order of assembly in the tooth axis, form a closed tooth chain, the lower part is installed in the inlet channel in the transmission system, driven by the entire tooth chain (upstream face) and bottom-up movement, and carry solids separate from the liquid, the liquid from the gap in the tooth through the gate, the whole working process of continuous.

技术特点 TECHNICAL CHARACTERISTICS

1. 结构紧凑一体化，自动化程度高，能耗少，噪音低，分离效率高。
2. 连续除污无堵塞，排渣干净
3. 耐腐蚀性好（所有运动部件均为不锈钢和尼龙）。
4. 运行安全，传动系统中设有机械过载保护和超载限制器双重保护，超载限制器的仪表可显示传动载荷，当水下道条或耙齿被卡住后，电机将自动断电，仪表具有远程监控接口，可实现机器故障远程监控。

1, compact structure, high degree of automation, low energy consumption, low noise, high separation efficiency. 2, continuous decontamination without clogging, clean slag. 3, good corrosion resistance (all moving parts are stainless steel and nylon). 4, the safe operation of the transmission system, a mechanical double protection overload protection and overload limiter, overload limiter instrument can display the transmission load, when the water under the chain or tooth is stuck, the motor will automatically power off, the instrument has remote monitoring interface, can realize remote monitoring of machine fault.



转筒式过滤机（微滤机）

DRUM TYPE FILTER(MICRO FILTRATION)



简介 INTRODUCTION

转筒式过滤机可去除悬浮颗粒大于0.2mm的污物，污水由进口进入缓冲槽，特殊的缓冲槽使得污水水平均匀地步入内网筒，内网筒通过旋转叶片将截留物质排出，过滤的水由网筒间隙排出。它广泛应用于需要进行固液分离的各种场合，如城市生活污水、造纸、印染、化工、屠宰污水等的过滤。尤其是适用于造纸白水处理，达到封闭循环重复使用。

Drum type filter can remove suspended particles larger than 0.2mm sewage, sewage into the buffer tank by import buffer tank due to the special sewage uniformly into the intranet intranet point cylinder, cylinder by rotating blade retention substances, filtered water discharged by the net cylinder gap. It is widely used in various occasions, such as municipal sewage, paper making, printing and dyeing, chemical industry, slaughter house wastewater and so on. Especially suitable for white water treatment of paper mill, which can be used in closed cycle.

技术参数 TECHNICAL PARAMETERS

型号	TLGL-1	TLGL-2	TLGL-3	TLGL-4	TLGL-5	TLGL-6
过滤面积 (m ²)	5	7	9	11	14	18
过滤网目 (目)	60-250	60-250	60-250	60-250	60-250	60-250
过滤白水能力 (t/h)	50-100	80-150	100-200	120-240	150-300	170-380
滤筒转速 (r/min)	4-6	4-6	4-6	4-6	4-6	4-6
冲洗水压力 (Mpa)	0.3	0.3	0.3	0.3	0.3	0.3
电机功率 (kw)	1.1	1.5	1.5	2.2	2.2	2.2
滤筒直径 (mm)	1000	1250	1250	1500	1500	1500
滤筒长度 (mm)	1500	2000	2500	3000	3500	4000
重量 (t)	1.5	2	2.5	3	3.5	4
Ss去除率 (%)	70-85					



固液分离设备

THE SOLID-LIQUID SEPARATION EQUIPMENT

带式压滤机

BELT (TYPE) FILTER PRESS

简介 INTRODUCTION

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，托脱效率高，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；该机还用于浆料浓缩、黑液的提取等工艺处理。

Belt type filter press is a kind of dehydration equipment of digestion and absorption of foreign advanced technology research and development. Has a processing capacity, supporting said high efficiency, long service life, as supporting the sewage treatment equipment, the air flotation treatment after suspended solids and sediment dewatered, pressed into mud cake, achieve two pollution prevention purposes; this machine can also be used in slurry concentration, extraction of black liquor.



技术特点 TECHNICAL CHARACTERISTICS

1. 超长的重力脱水区，承重量大，处理能力强，耗能少，运行成本低。
2. 独特的斜式加长楔形区设计，运行更稳定，处理量大。
3. 多辊径递减式挤压辊，布局紧凑，滤饼含固率高。
4. 配备新式自动纠偏和涨紧系统，工作平稳，大大提高滤带寿命。
5. 采用两套独立的反冲洗系统。

1, super long gravity dewatering area, heavy load, strong processing capacity, low energy consumption, low operating cost. 2, the unique oblique extension of the wedge design, running more stable, large amount of treatment. 3, the number of roller diameter decreasing extrusion roller, compact layout, filter cake with high solid content. 4, equipped with a new type of automatic correction and up tight system, the work is stable, greatly improve the filter belt life. 5, using two sets of independent anti washing system.

技术参数 TECHNICAL PARAMETERS

型号	能力 (m³/h)	带宽 (mm)	功率 (kw)		冲网水		耗气量 (m³/min)	给料浓度	出料浓度	外形尺寸长×宽×高 (mm)
			主机	空压机	耗水量 (m³/h)	压力 (Mpa)				
TLDL500	3-4	500	1.5	3	3.0	≥0.5	0.2	0.8-8%	25-45	4920 × 978 × 2350
TLDL700	4-6	700	2.2	3	3.5	≥0.5	0.2			4920 × 1178 × 2350
TLDL1000	5-7	1000	2.2	3	5.0	≥0.5	0.2			4920 × 1478 × 2350
TLDL1500	8-10	1500	2.2	3	8.0	≥0.5	0.3			4920 × 1978 × 2350
TLDL2000	12-15	2000	2.2	3	10.5	≥0.5	0.3			4920 × 2478 × 2350
TLDL2200	14-16	2200	2.2	3	15.0	≥0.5	0.3			4920 × 2678 × 2350
TLDL2500	15-18	2500	3.0	3	17.0	≥0.5	0.3			4920 × 2978 × 2350
TLDL3000	18-25	3000	4.0	4	20.0	≥0.5	0.3			4920 × 3478 × 2350

真空带式过滤机

VACUUM BELT (TYPE) FILTER



简介 INTRODUCTION

真空带式过滤机是一种自动化程度高的新型过滤设备。该机以过滤布或滤网为介质，使料浆水平布置于过滤介质至上，充分利用料浆重力和真空吸水实现固液分离。连续水平带式真空过滤机适用于多种浓度条件下的物料，过滤效率高，因而被众多工业界优先采用。

Vacuum belt filter is a new filtration equipment, a high degree of automation, the machine with a cloth filter or filter medium, the slurry level is arranged on the filter medium first, make full use of the slurry gravity and vacuum suction to achieve solid-liquid separation. Continuous horizontal belt vacuum filter can be applied to materials of various concentrations, high filtration efficiency, and many industry preferred.

技术特点 TECHNICAL CHARACTERISTICS

1. 自动化程度高：下料、过滤、洗涤、脱渣、滤布清洗均为连续自动化，提高生产效率，降低运行成本，极大减轻工人劳动强度，改善工作环境。
2. 过滤速度快：物料通过沉淀区，大颗粒在底层，小颗粒在上层，滤饼结构合理，滤液通过阻力小，可进行薄层快速过滤。
3. 过滤工艺方便：滤饼厚度、洗水量、逆流洗涤级数、真空度、滤布速度任意调整，以达到最佳过滤效果。
4. 洗涤效果好：可实现多级平流或逆流洗涤，洗涤均匀彻底，母液和洗涤液根据工艺需要可分别收集和再利用。

技术参数

TECHNICAL PARAMETERS

型号	过滤面积 (m²)	过滤有效长度 (mm)	主电机功率 (kw)	真空流量 (m³/min)	真空机功率 (kw)
TLZD-400	1.0	2500	3	2	11
	5.0	7900	3	15	30
TLZD-630	6.3	10000	3	15	30
	7.3	9600	5.5	15	30
TLZD-1300	9.1	7000	5.5	20	37
	10.9	8400	5.5	20	37
	14.6	11200	5.5	20	37
	18.2	14000	7.5	30	45
	20.0	15400	7.5	30	45
	20.0	11200	7.5	30	45
TLZD-1800	25.0	14000	11	42	55
	30.0	16800	11	42	55
TLZD-2000	20.0	10000	11	42	55
	25.0	12500	11	42	55
	29.0	14000	11	42	55
	33.8	16800	11	66	55
	39.2	19600	15	66	75
TLZD-2500	25.0	10000	11	30	55
	30.0	12000	11	42	55
	35.0	14000	15	42	75
	42.0	16800	22	66	110
	49.0	19600	22	66	110
TLZD-3150	56.0	22400	30	97	160
	61.7	19600	30	100	另选
	70.8	22400	30	123	另选
	79.4	25200	30	141	另选



固液分离设备

THE SOLID-LIQUID SEPARATION EQUIPMENT

三网带式压榨机

THREE NET BELT TYPE PRESS



用途 PURPOSE

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；也广泛适用于冶金、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。

Application of mixed sludge and digested sludge and activated sludge in city sewage generated by dehydration; it is widely used in metallurgy, mining, chemical, papermaking, printing and dyeing, electroplating, leather, brewing, coal, sugar and other industrial production of various types of sludge dewatering. Especially for the activated sludge, metallurgical sludge, flotation concentrate, tailings (coal) dewatering effect is better.

简介 INTRODUCTION

三网带式压榨机是我公司引进、消化、吸收芬兰先进技术研制生产的最新一代专利脱水设备，它处理能力大，脱水效率高（从进浆浓度0.8-3%可直接提高至28-35%以上），能耗低等优点，它不仅解决了传统普通双网压滤机对原料脱水时所出现的跑料问题，同时也解决了网两端料压力较小的问题，由于最新机型有预脱水网架，污泥的自然重力脱水区加长了，而且上网不受挤压，网孔不易被纤维、污泥所堵塞。所以较传统压滤机比较：网子和酰胺用量降低10-30%以上，而且结构简单，安装方便，是污泥压滤、黑液提取或浆料浓缩的理想产品。

Triple belt type press machine is the latest generation of patented dehydration equipment our company introduction, digestion and absorption of Finland advanced technology development and production, its processing capacity, high dewatering efficiency (from slurry concentration of 0.8-3% can be improved directly to more than 28-35%), low energy consumption, which not only solves the problem of conventional dual filter material running the machine time of dehydration of raw materials, but also solve the problem of small net material pressure at both ends, because most new models have Predewatering network case, natural gravity dehydration sludge lengthened, and the Internet is not pressed, the mesh is not easy to be blocked by fiber, sludge. So compared with the traditional filter: net and amide consumption reduction of more than 10-30%, and has the advantages of simple structure, convenient installation, is an ideal product for sludge dewatering, black liquor extraction or slurry concentration.

技术参数 TECHNICAL PARAMETERS

型号	TLSW-500	TLSW-1000	TLSW-1500	TLSW-2000	TLSW-2500	TLSW-3000
功率 (kw)	1.5+0.75	2.2+0.75	2.2+0.75	3+0.75	4+0.75	5.5+1.5
带宽 (mm)	500	1000	1500	2000	2500	3000
处理量 (m³/h)	2-5	3-10	8-15	12-20	18-25	22-30
进浆浓度 (%)	0.8-3%	0.8-3%	0.8-3%	0.8-3%	0.8-3%	0.8-3%
出浆浓度 (%)	28-32%	28-32%	28-32%	28-32%	28-32%	28-32%
外形尺寸 L×W×H (m)	5600×1100×2500	5600×1600×2500	5600×2100×2500	5600×2600×2500	5600×3100×2500	5600×3600×2500



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CXB(X)_A板框式污泥压滤机

CXB(X)_A BOARD FRAME TYPE SLUDGE FILTER PRESS



简介 INTRODUCTION

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，将料液送入各滤室，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、冶金及各个行业的污水处理等。

Frame type filter press is a kind of intermittent solid-liquid separation equipment, is composed of a filter plate and the filter frame which are arranged in the filter chamber, under the pressure of the feeding pump, the liquid will be sent to the filter chamber through a filter medium, solid and liquid separation. Widely used in chemical, petroleum, dyes, ceramics, pharmaceutical, food, sugar, starch, maltose, paint, metallurgy and various industries such as sewage treatment.

技术特点 TECHNICAL CHARACTERISTICS

由电动机带动减速机，经传动部件推动压紧板压紧滤板。压紧螺杆和固定螺母设计有可靠的自锁螺旋角，能保证压紧时的可靠性和稳定性。用电机综合保护器实现自动控制。可对电机实现过热和过载保护。

The speed reducer is driven by an electric motor, and the pressing plate is pressed by a transmission component. The clamping screw and the fixing nut are designed with reliable self locking screw angle, which can ensure the reliability and stability of the pressing time. Automatic control of motor integrated protector. Can realize the motor overheating and overload protection.

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

规格	过滤面积 (m²)	框内尺寸 (mm)	滤饼厚度 (mm)	滤板数量	滤框数量	滤室容积 (L)	外形尺寸 (mm)	过滤压力 (MPa)	电机功率 (kw)
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 THEATERBOX FILTER

规格	过滤面积 (m²)	框内尺寸 (mm)	滤饼厚度 (mm)	滤板数量	滤框数量	滤室容积 (L)	外形尺寸 (mm)	过滤压力 (MPa)	电机功率 (kw)
15/630	15	630×630	30	226	18	226	2700×1060×1150	0.6	2.2
50/800	50	800×800	30	748	38	452	3800×1270×1300	0.6	3.0
80/1000	80	1000×1000	30	1219	46	748	4760×1400×1400	0.6	3.0
120/1000	120	1000×1000	30	1816	69	1210	6140×1400×1400	0.6	3.0



固液分离设备

THE SOLID-LIQUID SEPARATION EQUIPMENT

叠螺式污泥脱水机

FOLD THE SCREW TYPE SLUDGE DEWATERING MACHINE



技术特点 Technical characteristics

1. 污泥脱水一体化, 适用浓度 2000mg/L-5000mg/L, 不仅可处理高浓度污泥, 也可对低浓度污泥直接进行浓缩脱水, 其适用污泥浓度的范围广, 可达 2000mg/L-5000mg/L。
2. 动定环取代滤布, 自清洗。无堵塞, 易处理含油污泥在螺旋轴的旋转作用下, 活动板相对于固定板不滑动, 从而实现了连续的自清洗过程, 避免了传统脱水机普遍存在的堵塞问题, 因此抗含油能力强, 易分离, 不堵塞。
3. 低速运转, 无噪音, 低能耗, 仅为带式机的 1/10, 离心机的 1/20 叠螺式污泥脱水机依靠容积内压进行脱水, 无需滚筒等大型机体, 而且运转速度低, 仅为 2-4 转每分钟, 因此节水、节能、噪音低, 平均能耗为带式机的 1/10, 离心机的 1/20, 其单位电耗仅为 0.01-0.1kwh/kg-DS。
4. 全自动控制, 运行管理简单叠螺式污泥脱水机内无滤布、滤孔等易堵塞元件, 运行安全简单, 根据客户的运行时段情况, 结合自动控制程序, 可进行程序设定, 实现全自动无人值守。

简介 INTRODUCTION

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收到螺旋轴旋片的推送而行卸料口移动, 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, 清扫过滤筒间隙防止堵塞, 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。

Fold sludge dewatering machine set screw type full automatic control cabinet, flocculation conditioning tank, concentrated sludge dewatering ontology and integrating liquid trough, but under the condition of fully automatic operation, high efficiency flocculation, and continuous enrichment and squeezing sludge dewatering work, eventually will collect the filtrate of reflux or emissions. Equipment is running, the sludge from the inlet into the cartridge after received the push screw axis rotary vane and discharge opening move, because the pitch between the screw axis rotary vane reduced gradually, so the mud pressure also will continuously increase, and dehydration, the start of the differential pressure under the action of water flowed from the gaps between fixed activity plate filter and, at the same time equipment depend on the fixed plate and activities between self-cleaning function, cleaning the filter clearance to prevent clogging, mud cake after full of dehydrated under the boost of screw axis from the discharging mouth eduction.

技术参数 TECHNICAL PARAMETERS

规格	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
TL131	6-10	1	130mm	2220	770	1400
TL132	12-20	2	130mm	2220	950	1400
TL133	24-30	3	130mm	2220	1300	1400
TL201	9-15	1	200mm	2240	780	1400
TL202	18-30	2	200mm	2440	1000	1400
TL203	27-45	3	200mm	2440	1450	1500
TL301	36-50	1	300mm	2600	940	1500
TL302	72-100	2	300mm	2600	1400	1500
TL303	108-150	3	300mm	2600	1980	1500



陶瓷圆盘真空过滤机

CERAMIC DISK VACUUM FILTER



陶瓷圆盘真空过滤器

简介 INTRODUCTION

陶瓷圆盘真空过滤机是基于毛细微孔的陶瓷原理, 采用微孔陶瓷为过滤介质, 利用微孔陶瓷大量狭小具有毛细作用原理设计制造的固液分离设备, 在负压工作状态下工作的盘式过滤器。

Ceramic disk vacuum filter is based on the principle of small hole, the microporous ceramic filter medium, using microporous ceramic of narrow with capillary action principle of design and manufacture of solid-liquid separation equipment, under the negative pressure condition of disc filter.

技术特点 TECHNICAL CHARACTERIATICS

陶瓷圆盘真空过滤机具有处理能力大, 节能效果明显。自动控制, 降低操作人员劳动强度。由于过滤处理后水分低, 可大大提高产品的市场竞争能力, 并降低运输成本及损耗。

Ceramic disk vacuum filter machine has the heavy processing capacity, power saving effect is obvious. Automatic control, reduce the operator labor intensity, low because water after filtering processing, can greatly improve product market competition ability, and reduce the transportation cost and loss.

技术参数 TECHNICAL PARAMETERS

名称型号	过滤面积 (m ²)	滤盘数 (个)	滤盘数量 (块)	槽体面积 (m ²)	重量 (t)	装机功率 (kw)	运行功率 (kw)	滤盘转速 (r/min)	长×宽×高 (m)
TL-1	1	1	12	0.2	1.4	5.28	<3.08	0.1-1	1.7×1.5×1.5
TL-2	2	2	24	0.31	2.1	5.4	<3.2	0.1-1	1.9×1.5×1.5
TL-4	4	2	24	0.9	2.6	6	<3.8	0.1-1	2.5×2.5×2.5
TL-6	6	2	24	1.4	2.9	7.3	<5.1	0.1-1	2.8×2.9×2.5
TL-9	9	3	36	1.9	3.5	12.36	<8.36	0.1-1	3.1×2.9×2.5
TL-12	12	4	48	2.4	4.5	13.08	<9.08	0.1-1	2.96×2.9×2.5
TL-15	15	5	60	2.9	4.9	13.8	<9.8	0.1-1	3.56×2.9×2.5
TL-18	18	6	72	3.4	5.3	14.25	<10.52	0.1-1	3.86×2.9×2.5
TL-21	21	7	84	3.9	5.7	15.24	<11.24	0.1-1	4.16×2.9×2.5
TL-25	25	5	48	4.4	6.1	16.7	<12.7	0.1-1	3.62×3.45×2.95
TL-30	30	6	72	5.3	6.9	19.7	<14.2	0.1-1	3.92×3.45×2.95
TL-35	35	7	84	6.2	7.7	20.06	<14.56	0.1-1	4.22×3.45×2.95
TL-40	40	8	96	7.1	8.5	22.06	<16.22	0.1-1	4.52×3.45×2.95
TL-45	45	9	108	8	9.3	25.72	<18.22	0.1-1	4.82×3.45×2.95
TL-60	60	12	144	10.7	11.7	30.46	<22.46	0.1-1	5.77×3.45×2.95
TL-80	80	16	192	14.3	14.9	43.78	<28.78	0.1-1	6.97×3.45×2.95
TL-90	90	15	180	16	15.2	51.3	<36.3	0.1-1	6.7×4.2×3.5
TL-102	102	17	204	17.5	17.6	60.9	<38.9	0.1-1	7.3×4.2×3.5
TL-120	120	20	240	19	21.2	66.22	<44.22	0.1-1	8.2×4.2×3.5



废气处理设备

WASTE GAS TREATMENT EQUIPMENT

除尘设备

DUST REMOVAL EQUIPMENT



简介 INTRODUCTION

除尘技术的应用发展与我国工业化进程密切相关。除尘技术一般包括机械式除尘、湿式除尘、静电除尘和袋式除尘。机械式除尘是利用粉尘的重力沉降、惯性或离心力分离粉尘，其除尘效率一般在90%以上，除尘效率高、阻力低、节省能源。湿式除尘是利用气流接触洗涤原理，将含尘气体中的粉尘分离到液体中，以去除气体中的粉尘。其除尘效率稍高于机械式除尘，但易造成洗涤液体的二次污染。

The application and development of dust removal technology is closely related to the process of China's industrialization. The dust removal technology generally includes mechanical dust, wet dust, electrostatic dust removal and bag filter. Mechanical dust removal is the use of gravity sedimentation, inertia or centrifugal force separation of dust, the dust removal efficiency is generally above 90%, high dust removal efficiency, low resistance, save energy. Wet dust removal is the use of gas and liquid contact washing principle, the dust in the dust separated into the liquid, in order to remove the dust in the gas. The dust removal efficiency is slightly higher than the mechanical dust removal, but it is easy to cause the two pollution of washing liquid.

工作原理 WORKING PRINCIPLE

除尘器其主要结构分为四个部分：净化部分：由滤袋、滤袋托架、滤袋框架、含尘气体进气口、净化气体出口等组成。喷吹部分：由脉冲控制仪、脉冲阀、喷吹管、气包等组成。排灰部分：由电机、减速机、螺旋输送机、星形排灰阀等组成。壳体部分：由上壳体、中壳体、下壳体组成。排风机把含尘气体从进气口引入中壳体内，干净的气体透过滤袋由文氏管进入上壳体，而由净气出口排出，而粉尘被阻留在滤袋外壁，随着过滤时间的延长，吸附在滤袋上的粉尘越来越厚，滤袋阻力越来越大，此时，脉冲控制仪发出信号，程序地控制各脉冲阀的开关，使高压气源经喷吹孔、文氏管向滤袋内喷射，由于高压气的作用，使滤袋发生急剧的膨胀引起冲击振动，使吸附在滤袋表面的粉尘抖落在灰斗里由输灰机排出。

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光解除臭设备

LIGHT LIFTING EQUIPMENT



简介 INTRODUCTION

我公司是微波无极灯紫外线废气处理技术的缔造者，全球首家开展微波无极灯技术研究，并于2008年应用于恶臭废气的治理，形成三大系列的紫外线光解废气净化设备：微波无极灯光解氧化除臭设备、UV/O3高臭氧催化氧化净化器、准分子紫外线光解氧化除臭设备。

波长275-320nm，又称为中波红斑效应紫外线。中等穿透力，它的波长较短的部分会被透明玻璃吸收，日光中含有的中波紫外线大部分被臭氧层所吸收，只有不足2%能到达地球表面，在夏天和午后会特别强烈。UVB紫外线对人体具有红斑作用，能促进体内矿物质代谢和维生素D的形成，但长期或过量照射会令皮肤晒黑，并引起红肿脱皮。紫外线保健灯、植物生长灯发出的就是使用特殊透紫玻璃（不透过254nm以下的光）和峰值在300nm附近的荧光粉制成。

UVB在废气领域的应用十分广泛，由于UVB基本不产生臭氧，因此在处理低浓度、大流量废气上优势明显，杜绝二次臭氧的污染，尤其在净化烟气、橡胶液气的处理上，设备已经在山东得宝1000000m³硫化废气、藤仓橡胶、中策橡胶得到应用。

Our company is the founder of the microwave electrodeless lamp UV exhaust treatment technology, to carry out the world's first micro-blog technology research lamp, and in 2008 is applied to the malodorous gas treatment, the formation of the three series of UV photolysis of exhaust gas purification equipment: microwave electrodeless lamp photolysis equipment, high ozone oxidation deodorization UV/O3 catalytic converter, excimer UV photolysis oxidation deodorization equipment. The wavelength of 275-320nm, also known as uvb. The medium penetration, the shorter wavelength will be transparent glass absorption, sunlight contains ultraviolet mostly absorbed by the ozone layer, only less than 2% can reach the surface of the earth, and will be particularly strong in the summer afternoon. UVB ultraviolet radiation on the human body has the role of erythema, can promote the body's mineral metabolism and vitamin D formation, but long-term or excessive exposure will make the skin tanning, and cause swelling peeling. Ultraviolet health lamp, the plant growth light is the use of special transparent glass (not through the 254nm light) and peak in the vicinity of 300nm fluorescent powder. Application of UVB in the gas field is very extensive, because UVB does not produce ozone, so the advantage in the treatment of low concentration and high flow exhaust obviously, eliminate two ozone pollution, especially in the treatment of flue gas purification, waste rubber, equipment has been used in curing waste gas, rubber, rubber and other industries by Tokura.



废气处理设备

WASTE GAS TREATMENT EQUIPMENT

低温等离子废气处理设备

LOW TEMPERATURE PLASMA WASTE GAS TREATMENT EQUIPMENT



简介 INTRODUCTION

低温等离子废气处理设备是我公司最新推出的空气强力杀菌净化除臭技术，低温等离子体技术是一个集物理学、化学、生物学和环境学于一体的交叉综合性技术，该技术显著特点是对污染物兼具物理效应、化学效应和生物效应，且有能耗低、效率高、无二次污染等明显优点。

低温等离子可使电负性高的气体分子（如氧分子、氮分子）带上电子而成为负离子，它具有许多良好的健康效应，对人体及其他生物的生命活动有着十分重要的影响，被人们誉为“空气维生素”、“长寿素”。

低温等离子体的净化作用还具有显著的生物效应。发生的静电作用在各种细菌、病毒等微生物表面产生的电能剪切力大于细胞膜表面张力，使细胞膜遭到破坏，导致微生物死亡。因此低温等离子体除臭技术具有优秀的消毒杀菌之功效。

Low temperature plasma air exhaust gas treatment equipment is strong sterilization of the company's new purification deodorization technology, low temperature plasma technology is a set of physics, chemistry, biology and Environmental Science in one of the cross integrated technology, the technology is characterized by both physical effect and chemical effect of pollutants and biological effect, and low energy consumption, high efficiency, no two pollution and other advantages. Low temperature plasma can make the gas molecules high electronegativity (such as oxygen, nitrogen molecules) with electrons to become negative ions, it has many good health effects, has a very important effect on the human body and other biological life activities, known as the "air vitamin", "longevity factor". The purification effect of low temperature plasma also has significant biological effect. The electrostatic interaction can happen shear force is greater than the surface tension in the cell membrane produces a variety of bacteria, viruses and other microorganisms on the surface of the electric, cell membrane was destroyed, resulting in the death of microorganisms. Therefore, low temperature plasma technology has excellent disinfection and sterilization efficacy.

脱硫设备

THE DESULFURIZATION EQUIPMENT



简介 INTRODUCTION

脱硫是控制二氧化硫排放的技术，除尘器不仅能脱除烟气中的二氧化硫，并能生产出高附加值的硫酸氨化肥产品。该锅炉除尘设备利用一定浓度（此处以28%为例）的氨水作为脱硫剂，生成的硫酸氨浆液，输送到化肥厂处理系统。脱硫过程中使用的氨水需要量，由预设PH控制阀来自动调节，并由流量计进行测定。硫酸氨结晶体在脱硫除尘器中被饱和的硫酸氨浆液结晶出来，生成35%重量比左右的悬浮颗粒。这些浆液被子泵送到处理场，经过初级和二级脱水，然后，再送到化肥厂进行进一步脱水、干燥、冷凝和存储，通过锅炉除尘设备对烟气脱硫的同时，锅炉除尘器还生成了可观的副产品，达到一定的经济效益。

Desulfurization is the technology to control sulfur dioxide emissions, not only can remove the flue gas sulfur dioxide, and can produce a high value of ammonium sulfate fertilizer products. The boiler dust removal equipment using a certain concentration (here to 28% as an example) of ammonia as a desulfurization agent, the production of ammonia sulfate slurry, transported to the fertilizer plant treatment system. The amount of ammonia needed in the desulfurization process is automatically adjusted by the preset PH control valve and measured by the flow meter. Ammonium sulfate crystal in the desulfurization and dust catcher in the saturated ammonium sulfate slurry crystal out, the formation of 35% weight ratio of suspended particles. The slurry pump to the quilt after primary treatment field, and two levels of dehydration, then, and then sent to the fertilizer plant for further dewatering, drying, condensation and storage, at the same time through the boiler dust removal equipment for flue gas desulfurization, boiler dust collector also generates a by-product of considerable economic benefits, to achieve a certain.

成套污水处理工艺流程

COMPLETE SET OF SEWAGE TREATMENT PROCESS

地埋式污水处理流程图



应用范围 APPLICABLE SCOPE

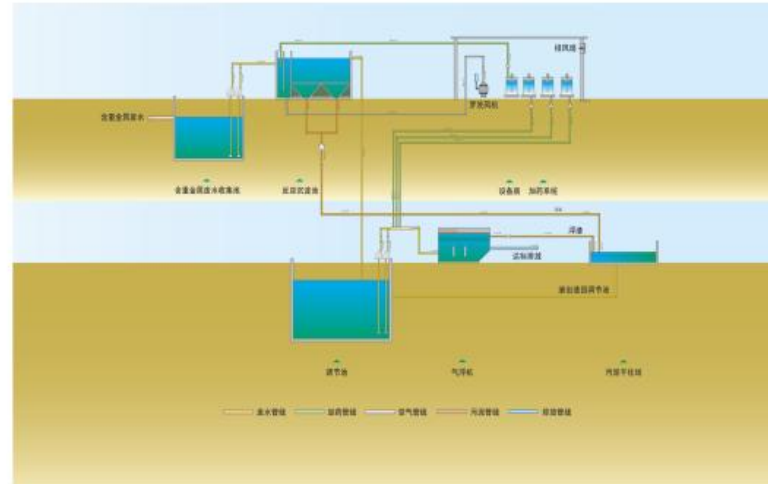
地埋式污水处理工艺主要用于宾馆、饭店、学校、机关和工厂的污水净化，使处理后的污水达到规定的排放标准。

Buried sewage treatment technology is mainly used in hotels, restaurants, schools, departments and factory sewage purification, the treated sewage reached the prescribed discharge standards.

工艺特点 CRAFT CHARACTERISTIC

1. 采用水解酸化与生物接触氧化相结合的方法，有效提高了处理效果，处理后的水可达到国家排放标准。
 2. 产生污泥量少，各阶段产生的污泥可以回流消化，最终污泥定期抽取。
 3. 工艺流程可以有机结合在一起，可以设在地表下或地下室，也可采取地埋式。当埋入地下时在设备顶部可用作停车场或绿化草坪，与周围环境无影响。
 4. 设备自动化程度高，系统中风机、水泵等设备自控运行，减少操作工作量，本设备采用有效措施减少噪音和异味，对周围环境无影响。
 5. 出水经过深度处理可以回收。
- 1, using the method of hydrolysis acidification and biological contact oxidation, which can effectively improve the treatment effect, the water can reach the national emission standard.
 - 2, produce less sludge, the sludge produced at each stage can be digested, and finally the final sludge extraction.
 - 3, the process can be combined together, can be arranged on the surface or under the basement, also can take the underground. When buried in the ground at the top of the equipment can be used as parking lot or green lawn, and no impact on the surrounding environment.
 - 4, high degree of automation equipment, system stroke machine, water pump and other equipment automatic control operation, reduce the workload of the operation, the device uses effective measures to reduce noise and odor, no impact on the surrounding environment.
 - 5, the water can be recycled through the depth of treatment.

工业废水处理工艺流程图



工艺特点 CAFT CHARACTERISTIC

工业污水处理在生产过程中使用了大量强酸、强碱、重金属溶液，甚至包括福、氟化物、铬等有毒有害化学品，在工艺过程中排放了污染环境 and 危害人类健康的废水、废气和废渣，已成为一个重污染行业。

在处理废水中的重金属时，常用方法不能分解破坏的，而只能转移它的存在位置和转变它的物理和化学形态。即：经化学还原沉淀处理后，废水中的重金属从溶解的离子状态转变成难溶化合物而沉淀下来，从水中转移到污泥中，再经离子交换处理后，存在于再生液中。总之重金属废水处理形成两种产物，一是基本上脱除了重金属的处理水，二是重金属的浓缩产物——污泥。重金属浓度小于排放标准的处理水可以排放，如果符合生产工艺用水的最好回用。浓缩产物中的重金属大都具有使用价值，尽量回收利用，没有回收利用的，要加以无害化处理。

A large number of strong acid and alkali and heavy metal solution used in the production process of industrial wastewater treatment, including cadmium, chloride, chromium and other toxic and harmful chemicals in the process of emission of environmental pollution and harm to human health, waste water, waste gas and waste residue, has become a heavy pollution industry. When dealing with heavy metals in wastewater, the common methods can not be used to decompose and destroy, but can only be transferred to its existing position and change its physical and chemical form. Namely: treatment by sedimentation after chemical reduction, heavy metals in wastewater from ion dissolved into insoluble compounds precipitated from water, transferred into sludge, then through ion exchange treatment, exists in the regeneration fluid. In short, heavy metal wastewater treatment after the formation of two kinds of products, one is basically the removal of heavy metals in the treatment of water, the two is the concentration of heavy metal products - sludge. The treatment of heavy metal concentration is less than the discharge standard of water can be discharged, if it is in line with the best use of the production process of water reuse. Most of the heavy metals in the concentrated product have the use value, recycling and recycling, and there is no recycling, to be harmless treatment.

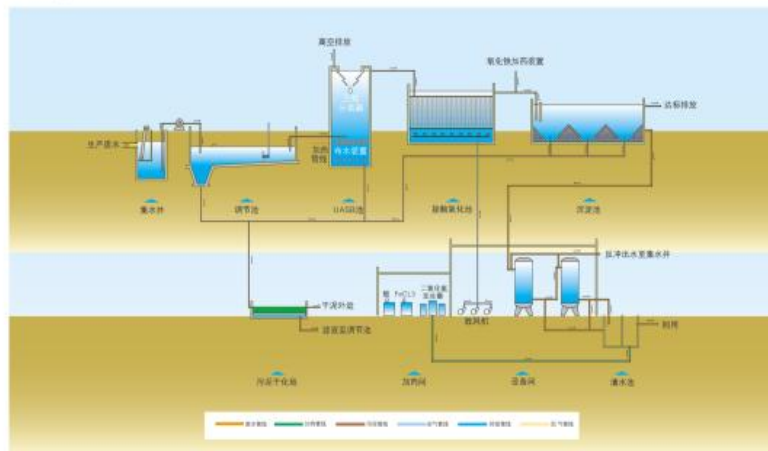
成套污水处理工艺流程

COMPLETE SET OF SEWAGE TREATMENT PROCESS

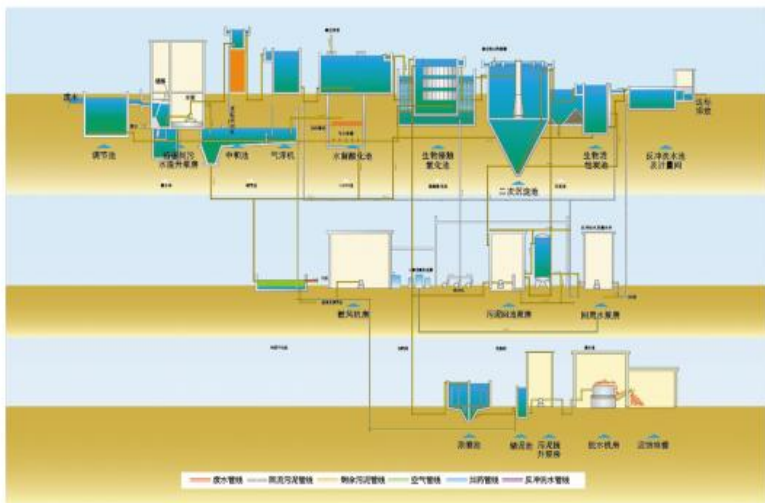
造纸污水处理流程图



制药污水处理工艺流程图



印染污水处理工艺流程图



油脂废水处理工艺流程图

