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SENZ CENTRIFUGE SCREW PRESS AND SYSTEMS

Solid-Liquid Separation

固液分离设备



金华神舟离心机有限公司

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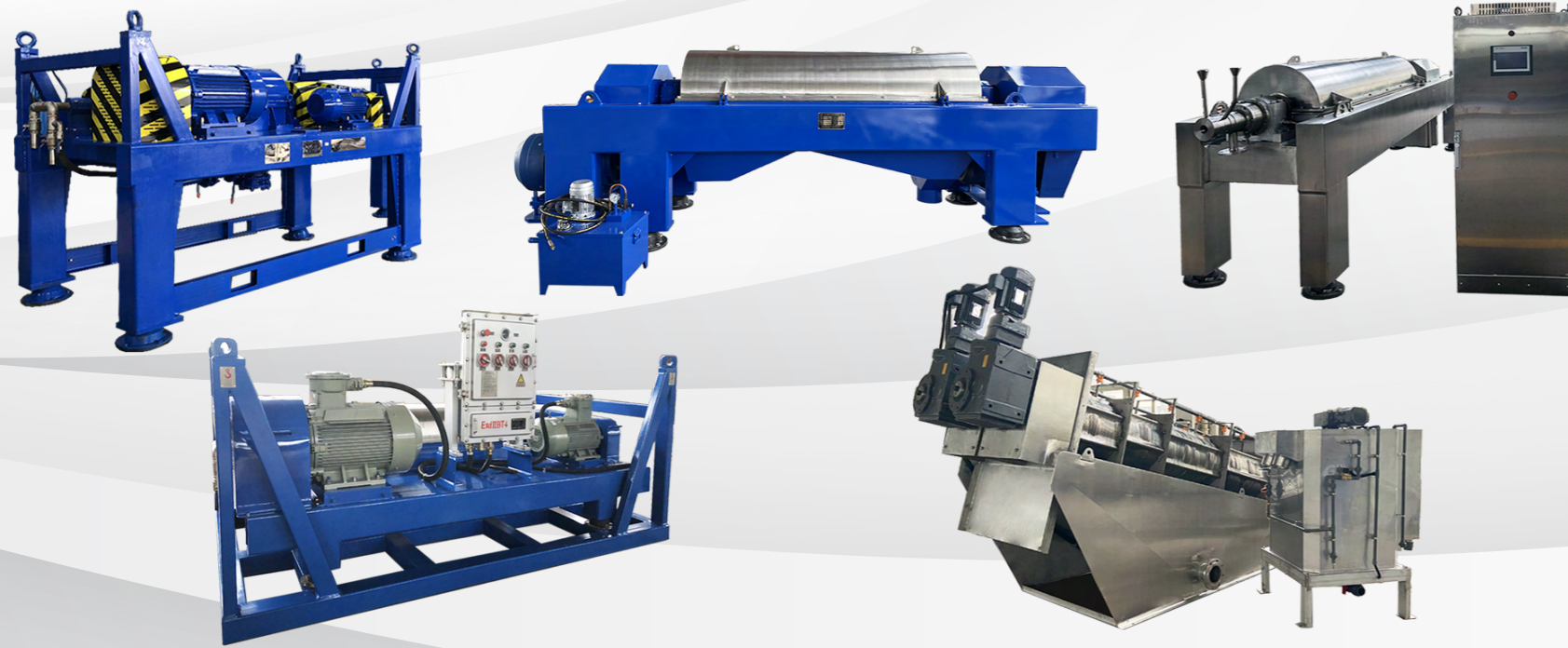
神舟卧螺沉降离心机

叠螺机、岩削甩干机等

成套系统的研发生产与销售

固液分离技术

Solid-Liquid Separation



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COMPANY PROFILE

Jinhua Shenzhou centrifuge Co., Ltd. is a manufacturer of sludge / sewage treatment equipment and solid-liquid separation equipment.

Main production: LW series decanter centrifuge, SZ series sludge dewatering press, LWS three-phase centrifuge, centrifugal dehydrator, integrated sludge thickening and dewatering machine, complete sludge dewatering equipment, complete sewage treatment equipment, planetary gear differential and related supporting equipment of horizontal screw centrifuge (sludge cutter, shaftless screw conveyor, integrated flocculant preparation system, etc.).

企业简介

COMPANY PROFILE

金华神舟离心机有限公司是一家生产污泥 / 污水处理设备、固液分离设备的厂家。主要生产：LW 系列卧螺式离心机、SZ 叠螺脱水机、LWS 三相离心机、离心式脱水机、污泥浓缩脱水一体机（污泥脱水一体机）、污泥脱水成套设备、污水处理成套设备、行星齿轮差速器以及卧螺离心机相关配套设备（污泥切割机、无轴螺旋输送机、一体化絮凝剂制备系统等）等。

拥有二十多年的生产历史，产品遍布大江南北并已走出国门，与高等院校长期合作，如浙工大等。具有 LW 系列离心机的产品设计和开发能力，曾获得国家申请专利。

有各种用于离心机生产的精密设备及配套工艺技术和先进的检测仪器及技术，有严格的质量保证体系和完善的售后服务保障体系。公司是一家集科研、设计、制造、销售、服务于一体的现代化高新技术企业。

公司致力于（LW 卧螺离心机 / SZ 叠螺脱水机 / 三相离心机 / 污水处理成套设备）的研发与制造，为国内、海外数万家用户提供离心分离设备及解决方案，董事长孙先生有着几十年的设计制造经验，实现了高速分离技术。

拥有国家专利。中国最早一批卧螺离心机生产研究单位，参与高校各种合作，讲座以及授课。引领离心分离设备与离心分离技术发展方向。

公司具有独立的进出口权，目前设备远销美国，加拿大，俄罗斯，巴西，克罗地亚，捷克等几十个国家。

量身定制的专属方案，解决您的分离难题。几十年专注于固液分离解决方案，至今已为全球近万家企业提供了专业服务。专业的产品应用技术人员为您量身打造过滤分离设备解决方案，解决分离难题，一站式服务让您更省心。

With more than 20 years of production history, the products are all over China and sold abroad. The company has long-term cooperation with colleges and universities, such as Zhejiang University of technology.

It has the product design and development ability of LW series centrifuges and has obtained the national patent application. There are various equipment and supporting technologies for centrifuge production, advanced testing instruments, strict quality assurance and perfect after-sales service guarantee system. The company is a modern high-tech enterprise integrating scientific research, design, manufacturing, sales and service.

The company is committed to the R&D and manufacturing of (decanter centrifuges / stacking screw dehydrators / three-phase centrifuges / complete sets of sewage treatment equipment), providing centrifugal separation equipment and solutions for tens of thousands of domestic and overseas users.

Mr. Sun, the chairman of the board of directors, has decades of design and manufacturing experience, realized high-speed separation technology and has national patents. The first batch of horizontal screw centrifuge production and research units in China participated in various cooperation, lectures and lectures in Colleges and universities.

It leads the development direction of centrifugal separation equipment and centrifugal separation technology, and its products are exported to dozens of overseas countries.

The company has independent import and export rights. At present, the equipment is sold to the United States, Canada, Russia, Brazil, Croatia, the Czech Republic and other countries. Designed for you to solve your separation problem. With decades of experience, it has provided services to nearly 10000 enterprises around the world.

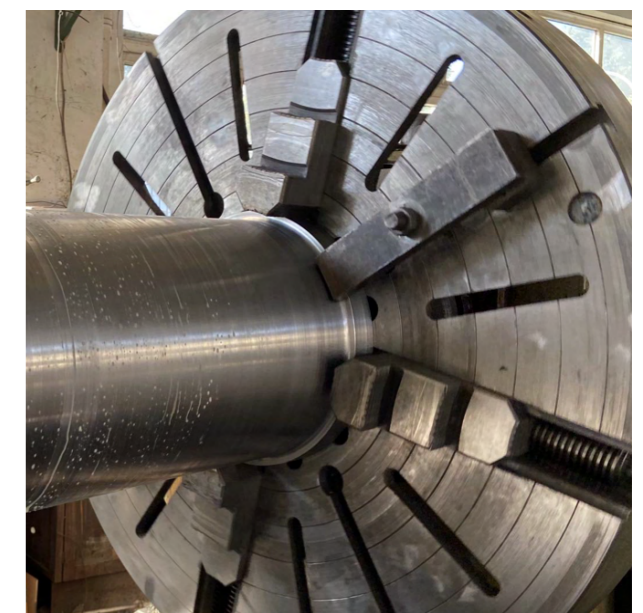
生产现场 PROCESSING EQUIPMENT

公司拥有专业的制造车间，多台行车、液压机及各类机床、数控机床、数控加工中心、等离子切割机、龙门铣床、锯床、刨床、折剪机、空压机、卷边机、焊接设备等。

拥有检测设备，动平衡试验机、全自动震动时效仪、噪声、震动温度等各类测试仪器，完全可以满足公司对产品设备制造的需要。

The company has professional manufacturing workshops, multiple cranes, hydraulic machines and various machine tools, CNC machine tools, CNC machining centers, plasma cutting machines, gantry milling machines, sawing machines, planers, folding and shearing machines, air compressors, crimping machines, welding equipment, etc.

It has testing equipment, dynamic balance testing machine, automatic vibration aging instrument, noise, vibration temperature and other testing instruments, which can fully meet the needs of the company for product equipment manufacturing.



研发人员 R & D TEAM

公司创始人是行业多年的专家，有知名度和威望。参与产品管控，项目及产品客户需管理求及产品周期管理等，确保公司的产品在短时间出来并交付，确保设备的稳定可靠。

技术负责人在研发和生产方面都有丰富的经验。曾在国内知名企业担任过多项要职，参与多个项目建设、优化和管理工作。拥有多项离心机相关的核心技术专利。

核心团队是在离心机应用上拥有十年以上工作经验的高级人才，对研发、生产、品质管控、供应链管理、产品管理和客户服务等方面具有丰富的经验，服务过多领域国内外知名客户。设备广泛应用于 20 多个领域的 100 多个行业。并根据市场要求不断研究、设计、生产新产品，并且配有先进的实验仪器。



The founder of the company is an expert in the industry for many years, with popularity and prestige. Participate in product control, project and product customer needs management and product cycle management to ensure that the company's products are delivered in a short time and that the equipment is stable and reliable.

The technical director has rich experience in R & D and production. He has held many important positions in well-known domestic enterprises and participated in many project construction, optimization and management. It has a number of core technology patents related to centrifuges.

The core team is a senior talent with more than ten years of working experience in centrifuge application. It has rich experience in R & D, production, quality control, supply chain management, product management and customer service, and serves well-known customers at home and abroad in many fields. The equipment is widely used in more than 100 industries in more than 20 fields. According to the market requirements, we continue to research, design and produce new products, and are equipped with advanced experimental instruments.



企业优势 ENTERPRISE ADVANTAGE

- 拥有 40 年的技术沉淀
 - 公司专业技术团队强大
 - 企业厂房占地面积 30,000 平方米
 - 产品出口到全球 30 多个国家
 - 高性能的分离设备 / 高价值的产品
 - ISO9001、CE认证、质量检测报告
- 40 years of technical experience
 - Professional technical team
 - The plant covers an area of 30,000 m²
 - Exported to more than 30 countries
 - High performance / High value
 - ISO9001、CE certification、quality inspection reports

荣誉资质 QUALIFICATIONS AND HONORS





产品外观

APPEARANCE

卧螺离心机框架和外壳整体焊接，承载强度高，配有液体阻尼吸收器，减振效果好，简化日常维护。

壳体盖被夹紧，进料管，清洗管，观察镜和照明孔设置。配备在线清洗系统，清洗卧螺离心机壳体内壁，转鼓内外表面，液体收集槽表面及离心机内部其他隐形部件，确保清洁度符合 GMP 要求规格。

结构设计合理，结构件平滑过渡，表面抛光，有效消除卫生死角，外部结构件，紧固件均采用不锈钢制造。外壳为蛤壳式，可清洁离心机壳与转鼓之间的夹层空间。

机座采用扁平结构，减少了机器的重心，减少了安装空间。平板式机座可作为操纵平台使用，操纵更便利。

产品优点

PRODUCT ADVANTAGES

- 1 单机处理量大**
用 D50 离心机分离固相粒度为 0.007mm 时，处理量可达 40m³/h。与物料接触部分，均采用优质不锈钢材料制造。
- 2 结构紧凑，占地面积小**
整机设计：悬架式、低重心式、移动式
控制系统：全自动智能化控制型、半自动控制、手动控制型。新型 LW 型采用模块化设计，可根据用户要求进行组合，方便用户现场使用。
- 3 装有多重安全保护装置**
限矩液力耦合器、震动开关、限矩输出装置、过载行程开关等安全装置。设备控制系统：普通型和防爆型。
- 4 设备及配件制造精良**
主轴承取用进口轴承，运转平衡，承载能力强。行星齿轮差速器制造精度高，使用性能优良。设备出厂前经双转子整机动平衡，保障高速下运行平整，整机动转震动振动值在全国处于领先水平。

LARGE PROCESSING CAPACITY OF ONE EQUIPMENT

When the solid particle size is 0.007mm, the treatment capacity can reach 40m³/h. The parts in contact with materials are made of high-quality stainless steel.

COMPACT STRUCTURE AND SMALL SPACE-OCCUPANCY

Complete machine design: suspension type, low center of gravity type and mobile type. Control system: fully automatic intelligent control type, semi-automatic control type and manual control type. The new LW model adopts modular design and can be combined according to user requirements, which is convenient for users to use on site.

EQUIPPED WITH MULTIPLE SAFETY PROTECTION DEVICES

Torque limiting hydraulic coupler, vibration switch, torque limiting output device, overload travel switch and other safety devices. Equipment control system: ordinary type and flameproof type.

EXCELLENT MANUFACTURE EQUIPMENT AND QUALITY PROTECTION SYSTEM

Imported bearings are selected for the main bearing, with balanced operation and strong bearing capacity. Planetary gear differential has high manufacturing precision and excellent service performance. Before leaving the factory, the equipment is balanced by double rotor integral motor to ensure smooth operation at high speed, and the vibration value of integral motor is at the leading level in the country.

注：以上技术优点为新款 LW 型系列产品的优点，并不表示每台必配，如有疑问及特殊要求，请与本厂技术部门联系。

技术核心

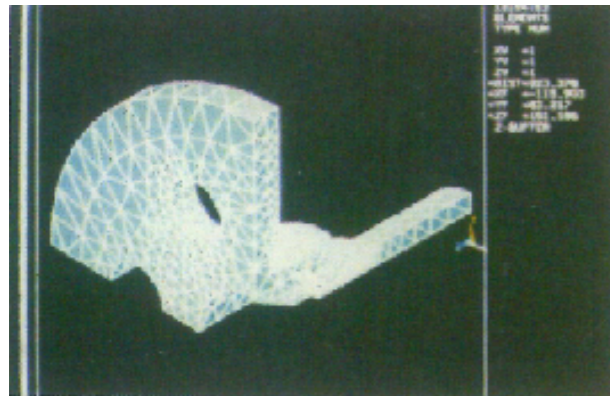
TECHNICAL CORE

安全为前提 质量是保证

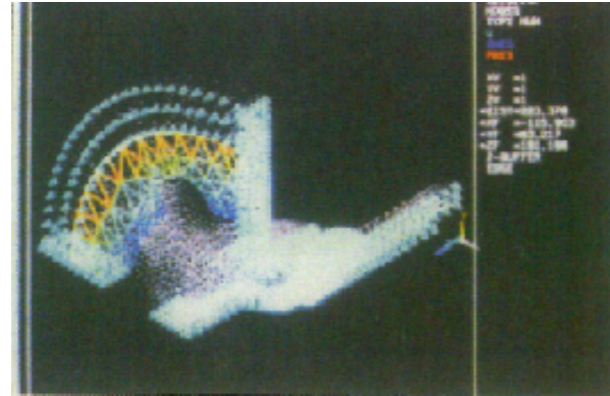
离心机是属于一种高速旋转的机械，其使用的安全性至关重要，加上目前长径比越来越大，其细长身躯在离心力和离心液压力的作用下，变得越来越脆弱，为了更好的保证它在工作时的安全性和可靠性，我们运用计算机仿真技术和美国大型工程结构有限元分析软件，对其主要的部件进行了应力计算和分离。

Based on safety and quality as the guarantee

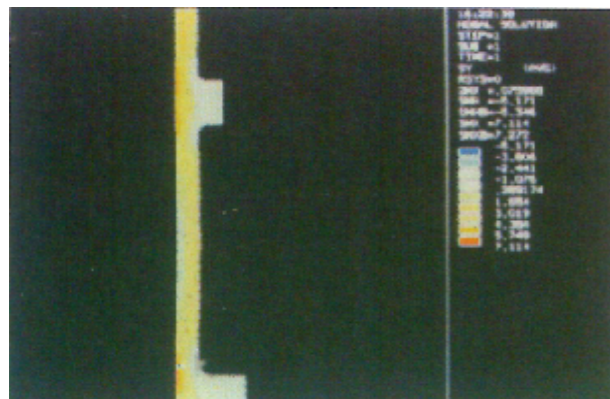
Centrifuge is a high-speed rotating machine, and its safety is very important. The length diameter ratio is becoming larger and larger, and the slender part becomes fragile under the action of centrifugal force and centrifugal fluid pressure. For its safety and reliability, we use computer simulation technology and American large-scale engineering structure finite element analysis software to calculate and separate the stress of the main components.



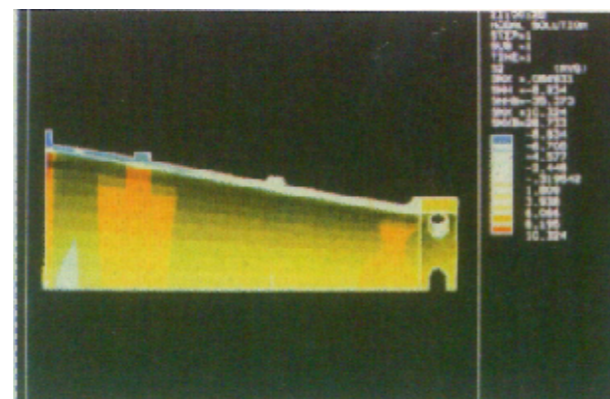
转鼓大端有限元实体模型的单元网格图
Grid diagram of drum large end finite element model



转鼓大端有限元实体模型的约束和载情况
Constraints and loads of drum large end finite element model



转鼓柱段的轴向应力云图
Axial stress nephogram of drum column section



转鼓锥段的第二主应力应力图
Second principal stress diagram of drum cone section

产品参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW 250 x 750	250	750	5000	3	3360	0.3-1.8	7.5	0.3	850	1915x1250x680
LW 250 x 1000	250	1000	4500	4	2722	0.5-5	7.5	0.5	950	2120x1250x680
LW 300 x 900	300	900	4200	3	2964	1-6	11	0.6	1160	2150x1300x900
LW 300 x 1200	300	1200	4000	4	2784	2-6	11	0.8	1350	2450x1300x900
LW 355 x 1160	355	1160	3600	3.3	2576	2-8	15	1	1400	2470x1350x830
LW 355 x 1460	355	1460	3600	4	2576	2-10	15	1.2	1800	2750x1350x830
LW 400 x 860	400	860	3200	2.2	2294	2-8	15	1	1600	2270x1480x980
LW 400 x 1200	400	1200	3200	3	2294	3-12	18.5	1.5	1800	2730x1600x1080
LW 400 x 1600	400	1600	3000	4	2016	3-15	22	2	2000	3130x1600x1080
LW 450 x 1350	450	1350	3000	3	2268	4-20	30	2	2000	2870x1700x1130
LW 450 x 1800	450	1800	2800	4	1976	4-25	37	3	2500	3320x1700x1130
LW 500 x 1250	500	1250	2800	2.5	2195	5-25	37	3	2500	2770x1800x1170
LW 500 x 1500	500	1500	2800	3	2195	5-30	37	3.5	2680	3020x1800x1170
LW 500 x 2000	500	2000	2500	4	1750	5-35	45	4	4000	3520x1800x1170
LW 550 x 1650	550	1650	3000	3.5	2006	5-35	45	4	2680	3885x1350x1600
LW 550 x 2200	550	2200	2800	4	2415	5-40	55	4.5	5500	4570x1380x1600
LW 600 x 1800	600	1800	2400	3	1935	6-40	55	4.5	4000	4490x1425x1690
LW 600 x 2400	600	2400	2200	4	1626	6-45	75	5	4500	5090x1425x1690
LW 650 x 1950	650	1950	2200	3	1761	6-45	75	5	5000	4840x1510x1720
LW 650 x 2600	650	2600	2000	4	1456	6-45	90	8	6000	5490x1510x1720
LW 720 x 2160	720	2160	2000	3	1612	7-80	120	8	6000	5200x1600x1800
LW 720 x 2880	720	2880	2000	4	1306	7-90	120	10	8000	6100x1600x1800
LW 800 x 2400	800	2400	1800	3	1451	20-100	150	12	12000	5820x2000x1300
LW 800 x 3200	800	3200	1800	4	1451	20-100	150	15	13000	7100x2000x1300

卧式螺旋离心机

LW SERIES DECANTER CENTRIFUGE

LW卧式螺旋卸料沉降离心机: 主要用于固液有密度差的物料的脱水、浓缩、澄清及固体颗粒分离等工艺过程。其工作机理是通过离心机高速旋转而带来的离心力, 使进入转鼓内的悬浮液中密度大的物料(固相), 受到离心力和离心液压力的作用而沉降、分离。

通过改变技术参数, 可用于分离不同要求的物料, 具有对物料分离的适应性强、处理量大、连续运行、操作简单、运行费用低、占地面积小等显著优点, 广泛应用于国民经济的各个部门, 如石油、化工、食品、造纸、酿造、环保等有密度差的物料需进行分离的许多领域。尤其适用于对滤布再生有困难, 以及浓度、粒度变化范围较大的悬浮液的固液分离。

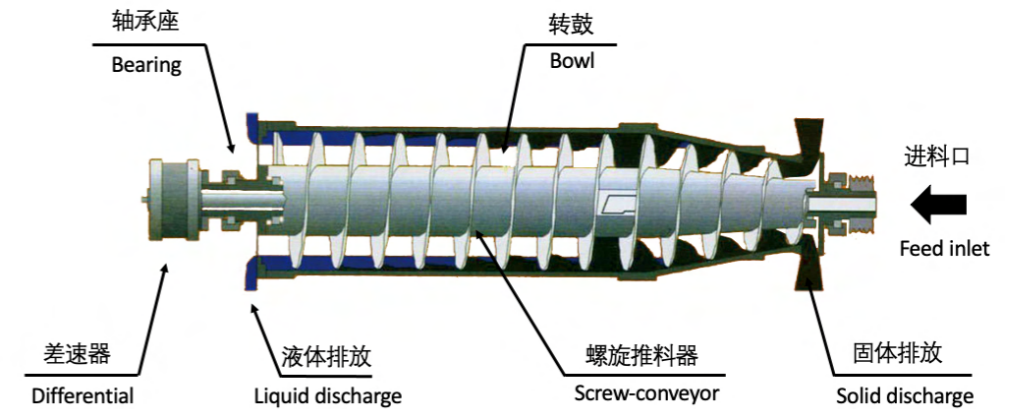


工作原理

STRUCTURE PRINCIPLE

卧式螺旋离心机是用来处理非均质相固液分离的一种离心机, 可进行液-固-液-固的悬浮液的分离。物料进入高速旋转的转鼓内, 由于受到离心力作用大小不一样, 悬浮液中的固相颗粒受到较大离心力的影响被沉降到底部的转鼓内壁。

悬浮液中的清(液)相受到相对较小的离心力的影响被沉降到底部转鼓的内侧, 与转鼓转向相同的螺旋推料器也在进行高速旋转, 二者由差速器产生稳定的速度差, 沉降到底部转鼓内壁的固相颗粒由螺旋推料器将物料输送到转鼓的固相出口, 清相液体由转鼓的清相出口流出。



Decanter centrifuge used for solid-liquid separation of heterogeneous phase, which can separate liquid-solid and liquid-liquid-solid suspensions. When the material enters the high-speed rotating drum, due to different sizes of centrifugal force, the solid particles in the suspension are affected by large centrifugal force and settle to the inner wall of the drum.

The clear (liquid) phase in the suspension is affected by relatively small centrifugal force and settles to the inner side of the solid material. The screw conveyor with the same rotation direction as the drum is also rotating at high speed. A stable speed difference is generated by the differential. The solid particles settled on the inner wall of the drum are transported to the solid outlet of the drum by the screw conveyor, and the phase cleaning liquid flows out of the phase cleaning outlet of the drum.

the drum will settle and separate under the action of centrifugal force and centrifugal liquid pressure.

By changing the technical parameters, it can be used to separate materials with different requirements.

It has the remarkable advantages of strong adaptability to material separation, large processing capacity, continuous operation, simple operation, low operation cost and small floor area. It is widely used in various departments of the national economy.

Petroleum, chemical industry, food, papermaking, brewing, environmental protection and many other fields where materials with poor density need to be separated.

It is especially suitable for solid-liquid separation of suspension with difficulty in regeneration of filter cloth and large variation range of concentration and particle size.

产品介绍

PRODUCT INSTRUCTION

LW series decanter: It's mainly used for dehydration, concentration, clarification and solid particle separation of materials with solid-liquid density difference.

Its operating principle is that through the centrifugal force brought by the high-speed rotation of the centrifuge, the materials with high density (solid phase) in the suspension clock entering the drum will settle and separate under the action of centrifugal force and centrifugal liquid pressure.

Its working mechanism is that through the centrifugal force brought by the high-speed rotation of the centrifuge, the materials with high density (solid phase) in the suspension clock entering

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW250 卧式螺旋离心机

设备为 LW 系列产品, 通常用于脱水和浓缩。体形小, 高转速 4500-5000r/min, 处理量小等特点, 用于需要分离因素大, 处理量小等的场合。

根据实际用途可分为: 澄清型, 脱水型, 浓缩型, 分离型, 分级型, 萃取型; 用户可以自行选择。设备适用于粒径大、固液密度差大、粘度低、浓度高、处理能力强、干度高于澄清度的易分离物料。



LW250 DECANTER (2 PHASE)

The equipment is LW series product, which is usually used for dehydration and concentration. Small size, high rotating speed of 4500-5000r/min, small processing capacity and other characteristics. It is used for occasions requiring large separation factors and small processing capacity.

According to the actual use, it can be divided into: clarification type, dehydration type, concentration type, separation type, classification type and extraction type; Users can choose by themselves. The equipment is suitable for easily separated materials with large particle size, large solid-liquid density difference, low viscosity, high concentration, strong processing capacity and dryness higher than clarity.

注意 (Attention)

为了加速科技进步, 本厂保留更改尺寸的权利, 并以供货物品的产品说明书及实物为准。

With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW250X720	250	720	5000	3	3360	0.3-1.8	7.5	0.3	850	1915x1250x680
LW250X960	250	960	4500	4	2722	0.5-5	7.5	0.5	950	2120x1250x680

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW300 卧式螺旋离心机

体形较小, 转速较高 4000-4200r/min, 处理量较小等特点, 用于需要分离因素大, 处理量小等的场合。根据实际用途可分为: 澄清型, 脱水型, 浓缩型, 分离型, 分级型, 萃取型; 用户可以自行选择。

实际工程中已用在以下行业: 磁粉处理、污水处理厂、制药、食品、实验室、石油、新能源、生物科技、化工化纤、聚合材料、皮革制造、化妆品、印染、针织、环保科技等。



LW300 DECANTER (2 PHASE)

Small size, high rotating speed of 4000-4200r/min, small processing capacity and other characteristics. It is used for occasions requiring large separation factors and small processing capacity. According to the actual use, it can be divided into: clarification type, dehydration type, concentration type, separation type, classification type and extraction type; Users can choose by themselves.

The actual project has been used in the following industries: magnetic particle treatment, sewage treatment plant, pharmacy, food, laboratory, petroleum, new energy, biotechnology, chemical fiber, polymeric materials, leather manufacturing, cosmetics, printing and dyeing, knitting, environmental protection technology, etc.

注意 (Attention)

为了加速科技进步, 本厂保留更改尺寸的权利, 并以供货物品的产品说明书及实物为准。

With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW300X900	300	900	4200	3	2964	1-6	11	0.6	1160	2150x1300x900
LW300X1200	300	1200	4000	4	2784	2-6	11	0.8	1350	2450x1300x900

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW355 卧式螺旋离心机

使用用户多, 技术最成熟的机型之一, 转速较高 3600r/min 拥有 2 种长径比, 高矮不同的机型, 体形中等, 中等转速, 处理量适中等特点。

实际工程中已用在以下行业: 钻井泥浆、颗粒分级、磁粉、污水处理、制药、食品、实验室、石油、新能源、生物、化工化纤、聚合材料、皮革制造、化妆品、印染、针织、环保科技等。



LW355 DECANTER (2 PHASE)

It is one of the most mature models with a large number of users. It has a high speed of 3600r/min. It has two types of models with different length diameter ratios and different heights. It has the characteristics of medium size, medium speed and medium processing capacity.

In the actual project, it has been used in the following industries: drilling mud, particle classification, magnetic powder, sewage treatment, pharmacy, food, laboratory, petroleum, new energy, biology, chemical fiber, polymeric materials, leather manufacturing, cosmetics, printing and dyeing, knitting, environmental protection technology, etc.

注意 (Attention)

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With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW355X1160	355	1160	3600	3.3	2576	2-8	15	1	1400	2470x1350x830
LW355X1460	355	1460	3600	4	2576	2-10	15	1.2	1800	2750x1350x830

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW400 卧式螺旋离心机

使用用户较多, 技术成熟的机型之一, 拥有三种长径比和高矮不同的机型, 体形中等, 转速较高 3000-3200r/min, 处理量中等特点。

用户可根据被分离物料(悬浮液)的物性、分离要求、处理能力、工艺要求等因素综合考虑, 合理选择好离心机的工作参数, 这样可获得较满意的分离效果和经济效益。颜色和材质可定制; 广泛用于新能源、化工、石油、轻工、制药、食品等行业。



LW400 DECANTER (2 PHASE)

It is one of the models with more users and mature technology. It has three models with different length diameter ratio and height. It has the characteristics of medium shape, high speed of 3000-3200r/min and medium processing capacity.

The user can reasonably select the working parameters of the centrifuge according to the physical properties of the separated material (suspension), separation requirements, treatment capacity, process requirements and other factors, so as to obtain satisfactory separation effect and economic benefits. Color and material can be customized; It is widely used in new energy, chemical industry, petroleum, light industry, pharmaceutical, food and other industries.

注意 (Attention)

为了加速科技进步, 本厂保留更改尺寸的权利, 并以供货物品的产品说明书及实物为准。

With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW400X860	400	860	3200	2.2	2294	2-8	15	1	1600	2270x1480x980
LW400X1200	400	1200	3200	3	2294	3-12	18.5	1.5	1800	2730x1600x1080
LW400X1600	400	1600	3000	4	2016	3-15	22	2	2000	3130x1600x1080

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW450 卧式螺旋离心机

LW450 拥有两种长径比，高矮不同的机型。体形中等，中等转速 2800-3000r/min，处理量适中等特点。用户根据实际情况选用。

实际工程中已用在以下行业：造纸、钻井泥浆分离、热电厂脱硫、颗粒分级、磁粉处理、污水处理、制药、食品、实验室、石油行业、新能源行业、生物科技、化工、聚合材料、皮革制造、化妆品、印染、针织、环保科技等。



LW450 DECANTER (2 PHASE)

LW450 has two types of length diameter ratio and different height. Medium size, medium rotating speed 2800-3000r/min, suitable for medium processing capacity. The user selects according to the actual situation.

The actual project has been used in the following industries: papermaking, drilling mud separation, thermal power plant desulfurization, particle classification, magnetic particle treatment, sewage treatment, pharmaceutical, food, laboratory, petroleum industry, new energy industry, biotechnology, chemical industry, polymeric materials, leather manufacturing, cosmetics, printing and dyeing, knitting, environmental protection technology, etc.

注意 (Attention)

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With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW450X1350	450	1350	3000	3	2268	4-20	30	2	2000	2870x1700x1130
LW450X1800	450	1800	2800	4	1976	4-25	37	3	2500	3320x1700x1130

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW500 卧式螺旋离心机

用户使用较多，体形较大，转速 2500-2800r/min，处理量较大等特点。根据实际用途可分为：澄清型，脱水型，浓缩型，分离型，分级型，萃取型；用户可以自行选择。

实际工程中已用在以下行业：造纸、磁粉处理、污水处理、制药、食品、实验室、石油行业、新能源、生物科技、化工化纤、聚合材料、皮革制造、化妆品、印染、针织等。



LW500 DECANTER (2 PHASE)

It is widely used by users, with large size, rotating speed of 2500-2800r/min, large processing capacity, etc. According to the actual use, it can be divided into: clarification type, dehydration type, concentration type, separation type, classification type and extraction type; Users can choose by themselves.

The actual project has been used in the following industries: papermaking, magnetic particle treatment, sewage treatment, pharmacy, food, laboratory, petroleum industry, new energy, biotechnology, chemical fiber, polymeric materials, leather manufacturing, cosmetics, printing and dyeing, knitting, etc.

注意 (Attention)

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With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW500X1250	500	1250	2800	2.5	2195	5-25	37	3	2500	2770x1800x1170
LW500X1500	500	1500	2800	3	2195	5-30	37	3.5	2680	3020x1800x1170
LW500X2000	500	2000	2500	4	1750	5-35	45	4	4000	3250x1800x1170

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW550 卧式螺旋离心机

体形大, 中等转速 2400–2600r/min, 处理量较大等特点, 用户可根据自身特点灵活选用。根据实际用途可分为: 澄清型, 脱水型, 浓缩型, 分离型, 分级型, 萃取型。

实际工程中已用在以下行业: 味精、油田钻井泥浆、热电脱硫、磁粉处理、污水处理、制药、食品、实验室、石油、新能源、生物科技、化工化纤、聚合材料、皮革制造、化妆品、印染、针织等。



LW550 DECANTER (2 PHASE)

Large size, medium speed of 2400–2600r/min, large processing capacity and other features, users can flexibly select according to their own characteristics. According to the actual use, it can be divided into: clarification type, dehydration type, concentration type, separation type, classification type and extraction type.

In the actual project, it has been used in the following industries: monosodium glutamate, oilfield drilling mud, thermo-electric desulfurization, magnetic particle treatment, sewage treatment, pharmacy, food, laboratory, petroleum, new energy, biotechnology, chemical fiber, polymeric materials, leather manufacturing, cosmetics, printing and dyeing, knitting, etc.

注意 (Attention)

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With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW550X1855	550	1855	2600	3.5	2006	5–35	55	4	2680	3885x1350x1600
LW550X2120	550	2120	2400	4	1709	5–40	55	4.5	4000	4150x1350x1600

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW650 卧式螺旋离心机

体形大, 转速中等 2000–2200r/min, 处理量大等特点, 长径比大, 可连续操作, 运转平稳, 生产能力大, 维修方便, 拥有两种长径比。

实际工程中已用在以下行业: 陶瓷、热电厂脱硫、颗粒分级、磁粉处理、污水处理、制药、食品、实验室、石油、新能源、生物、化工化纤、聚合材料、皮革、化妆品、印染、针织等。



LW650 DECANTER (2 PHASE)

Large size, medium rotating speed of 2000–2200r/min, large processing capacity, large aspect ratio, continuous operation, stable operation, large production capacity, convenient maintenance, and two aspect ratios.

In the actual project, it has been used in the following industries: ceramics, thermal power plant desulfurization, particle classification, magnetic particle treatment, sewage treatment, pharmaceutical, food, laboratory, petroleum, new energy, biology, chemical fiber, polymer materials, leather, cosmetics, printing and dyeing, knitting, etc.

注意 (Attention)

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With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 m ³ /h	主电机功率 kw	最大排渣能力 m ³ /h	机器重量 kg	外形尺寸 mm (L*W*H)
LW650X1950	650	1950	2200	3	1761	6–45	75	5	5000	4840x1510x1720
LW650X2600	650	2600	2000	4	1456	6–65	90	8	6000	5490x1510x1720

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LW150 实验螺旋沉降离心机

设备为 LW 系列产品，LW150 为实验室两相分离而设计，主要用于小量的从 1/1-500u/h 的连续处理操作，进出料量远小于工业离心机所需的进出料量，为研究科研单位及小批直产量的分离设备。小型卧螺离心机通常使用在食品行业，化工制药及生物等行业。

产品用途：实验室高质量、流量小于 300L/H 物料，产品材质：304L、316L，标准配置：普通电机、标准控制柜。颜色种类：可定制，可选配置：防爆电机、电源电压、变频器。



LW150 DECANTER (2 PHASE)

The equipment is LW series product. Lw150 is designed for laboratory two-phase separation. It is mainly used for small-scale continuous processing operation from 1/1-500u/h. The incoming and outgoing materials are far less than those required by industrial centrifuges. It is a separation equipment for research and research institutions and small batch direct output. Small horizontal screw centrifuges are usually used in the food industry, chemical, pharmaceutical and biological industries.

Product usage: laboratory high-quality materials with flow less than 300l/h, product materials: 304L, 316L, standard configuration: ordinary motor, standard control cabinet, color type: customizable, optional configuration: explosion-proof motor, power supply voltage, frequency converter.

注意 (Attention)

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With the progress of science and technology, the factory reserves the right to change the size, and the product manual and physical object of the supplied articles shall prevail. The model is made of stainless steel.

技术参数

SPECIFICATION

型号	转鼓直径 mm	转鼓长度 mm	最高转速 r/min	长径比	分离因素 G	生产能力 L/H	主电机功率 kw	最大排渣能力 m³/h	机器重量 kg	外形尺寸 mm (L*W*H)
LW150X650	120	650	6000	4	4116	50-100	4	-	360	1400x800x725

LW系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



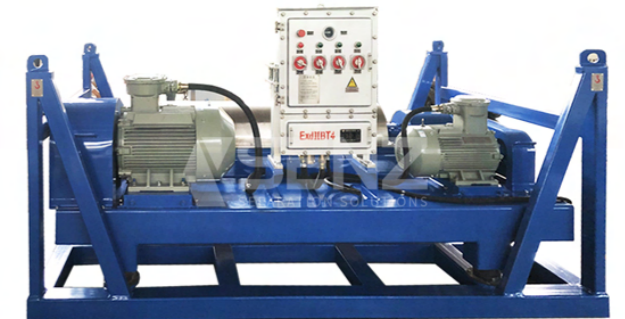
设备型号

EQUIPMENT TYPE

油田专用离心机

石油天然气钻井液净化卧式螺旋卸料沉降离心机（双电机双变频型），为一体化机架机体设计，现场安装与吊运便利；该离心机采用防爆、防蚀、耐候、减振处理，变频器和其它电器元件安装于的防爆柜里，防爆柜设置有加热和通风系统，适用于野外作业。

螺旋推料器驱动采用行星齿轮减速器驱动，有机械和电气双重过载保护装置，可实现低速大扭矩动力传递，启动平稳。该卧式螺旋卸料沉降离心机有单电机驱动、变频双电机驱动、液压驱动等形式，供用户根据不同的使用情况选用。



产品结合国外钻井领域离心分离技术和现场工况并与国内石油院校校企合作研发设计，可以用于石油钻井、非开挖、煤层气等领域的固相控制，同时可以用于钻井液尾浆处理、环保行业固液分离、还可用于食品、医药等领域。目前公司研发、设计生产的钻井离心机主要有低速离心机、中速离心机、高速离心机及高速变频离心机四种类型。

OILFIELD CENTRIFUGE

The oil and gas drilling fluid purification centrifuge (double motor and double frequency conversion type) is designed for an integrated rack body, which is convenient for on-site installation and lifting; The centrifuge adopts explosion-proof, corrosion-proof, weather proof and vibration reduction treatment. The frequency converter and other electrical components are installed in the explosion-proof cabinet. The explosion-proof cabinet is equipped with heating and ventilation system, which is suitable for field operation.

The screw pusher is driven by planetary gear reducer, with mechanical and electrical double overload protection device, which can realize low-speed and large torque power transmission and stable startup. The horizontal spiral discharge sedimentation centrifuge has the forms of single motor drive, variable frequency double motor drive, hydraulic drive, etc., which can be selected by users according to different use conditions.

The product is designed in combination with centrifugal separation technology and field working conditions in the field of foreign drilling and in combination with domestic petroleum universities, colleges and enterprises. It can be used for solid-phase control in the fields of oil drilling, trenchless, coalbed methane, etc. at the same time, it can be used for tail rotor treatment of drilling fluid, solid-liquid separation in environmental protection industry, food, medicine and other fields. At present, the drilling centrifuges developed, designed and produced by the company mainly include four types: low-speed centrifuges, medium speed centrifuges, high-speed centrifuges and high-speed frequency conversion centrifuges.

LWS系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



设备型号

EQUIPMENT TYPE

LWS 卧式螺旋离心机

三相卧螺离心机能在全速运转下连续进料、分离和卸料。具有结构紧凑、易于密闭、运行平稳噪声小、处理量大、能耗低自动化程度高、劳动强度小、操作维护方便、适应范围广等特点。针对一些难分离的物料，除了对分离物料本身采取相应的调整措施之外，还可以对离心机作相应的调整和改进：

1. 增大长径比；
2. 调整转鼓的转速；
3. 调节转鼓与卸料螺旋的差转速；
4. 改变转鼓锥段半锥角及采用多锥角螺旋；
5. 调整液相出口的溢流半径；
6. 改变卸料螺旋之螺旋头数和螺旋升角；
7. 增加 BD 板结构；



组合驱动方式

单电机驱动：单电机驱动一般采用一个变频电机 + 变频器同时驱动转鼓和螺旋。

这种驱动方式简单，操作简便，同时制造成本也较低。单电机驱动主要应用于固含量恒定的物料，同时对排出的固相含水量并无严格要求。由于没有必要的差速调节机构，因此转鼓与螺旋的差速只能通过改变齿轮传动比，或改变转鼓转速来实现。

双电机驱动：双电机驱动一般采用两个变频电机 + 两个变频器来分别控制转鼓和螺旋的动转。

在双电机驱动模式下，转鼓和螺旋之间的差速，可以通过简单的调整电机的转速加以调整。因此这种驱动方式广泛应用于固含量不恒定的物料，及对排出的固相物含水量有严格要求的物料。

液压驱动：液压驱动一般采用变频电机 + 变频器 + 液压马达，来分别驱动转鼓和螺旋。

在液压驱动模式下，转鼓与螺旋之间的差速可通过液压马达调节。在极低的差转速动行时，其度和稳定性都优于其它驱动方式。转鼓正常动转时，转鼓与螺旋均按一定的恒速度运转，一旦螺旋推料器的负载增加，液压马达会调节螺旋推料器加速运转，以防止堵料。当机器因堵料而停机清洗时，液压系统可单独驱动螺旋推料器运转，从而大增提高清洗和维护效率。

LWS系列卧螺离心机

LW SERIES DECANTER CENTRIFUGE



LWS DECANTER CENTRIFUGE (3 Phase)

The 3-phase centrifuge can continuously feed, separate and discharge at full speed. It has the characteristics of compact structure, easy sealing, stable operation, low noise, large processing capacity, low energy consumption, high degree of automation, low labor intensity, convenient operation and maintenance, wide application range and so on. For some materials that are difficult to separate, in addition to taking corresponding adjustment measures for the separated materials themselves, the centrifuge can also be adjusted and improved accordingly:

1. Increase the length diameter ratio;
2. Adjust the rotating speed of the drum;
3. Adjust the differential speed between the drum and the discharge screw;
4. Change the half cone angle of the drum cone section and adopt multi cone angle screw;
5. Adjust the overflow radius of the liquid phase outlet;
6. Change the number of screw heads and screw lifting angle of discharge screw;
7. Add BD plate structure;

COMBINED DRIVING MODE

Single motor drive: Single motor drive generally adopts a frequency conversion motor + frequency converter to drive the drum and screw at the same time.

The method is simple, the operation is simple, and the manufacturing cost is low. Single motor drive is mainly used for materials with constant solid content, and there is no strict requirement for the water content of the discharged solid phase. Because there is no necessary differential adjustment mechanism, the differential between the drum and the screw can only be realized by changing the gear transmission ratio or changing the drum speed.

Dual motor drive: Dual motor drive generally adopts two frequency conversion motors + two frequency converters to control the dynamic rotation of drum and screw respectively.

In the dual motor drive mode, the differential speed between the drum and the screw is adjusted by simply adjusting the speed of the motor. This driving mode is applied to materials with variable solid content and strict requirements for discharged solid water content.

Hydraulic drive: The hydraulic drive generally adopts frequency conversion motor + frequency converter + hydraulic motor to drive the drum and screw respectively.

In the hydraulic drive mode, the differential speed between the drum and the screw can be adjusted by the hydraulic motor. When moving at very low differential speed, its degree and stability are better than other driving methods. When the drum rotates normally, both the drum and the screw operate at a certain constant speed. Once the load of the screw pusher increases, the hydraulic motor will adjust the screw pusher to accelerate the operation to prevent material blockage. When the machine is stopped for cleaning due to material blockage, the hydraulic system can drive the screw pusher independently to improve the cleaning and maintenance efficiency.

污泥脱水成套设备

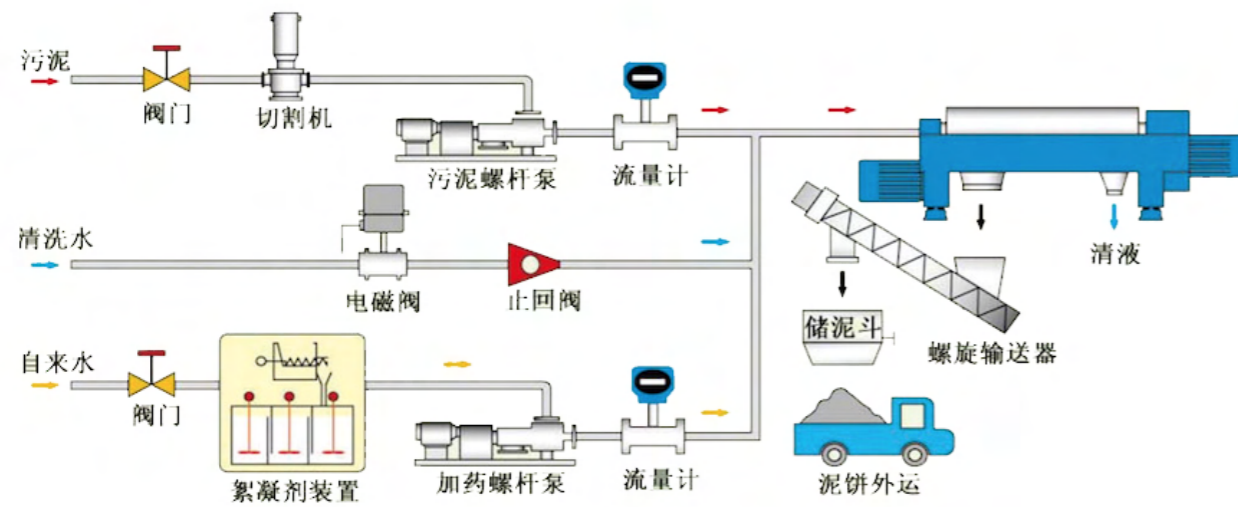
SET OF SLUDGE DEWATERING EQUIPMENT



工艺流程

TECHNOLOGICAL PROCESS

卧螺离心机污泥脱水成套设备：来自污泥浓缩池的沉淀污泥经过污泥切割机破碎后，由污泥输送泵（螺杆泵）送入卧螺离心机。泵进入的污泥流量，通过电磁流量计计量进入无螺离心机。污泥经过离心机分离后，成为固体 / 液体，液相（澄清液）直接排放或回送，固相（脱水污泥）由无轴螺旋输送机排出。



Set of sludge dewatering equipment for centrifuge: the precipitated sludge from the sludge concentration tank is crushed by the sludge cutter and sent to the centrifuge by the sludge transfer pump (screw pump). The sludge flow into the pump is measured by the electromagnetic flowmeter and enters the screw less centrifuge. After being separated by centrifuge, the sludge becomes solid / liquid, the liquid phase (clarified liquid) is directly discharged or returned, and the solid phase (dewatered sludge) is discharged by shaftless screw conveyor.

设备特点

CHARACTERISTICS

污泥离心脱水成套装置，其主机的长径比大，转速高，整个处理过程中对污泥的切割粉碎、进料、排泥、输送，絮凝剂的投加以及对整个系统运行状况的监控，均由 PLC+ 液晶屏的控制系统来实施。对用户而言，该装置作为全自动化的成套操作单元，是一款理想的交钥匙工程。

The complete set of sludge centrifugal dewatering device has large length diameter ratio and high speed. The cutting, crushing, feeding, sludge discharge and transportation of sludge, the dosing of flocculant and the monitoring of the operation status of the whole system in the whole treatment process are implemented by the control system of PLC + LCD. For users, as a complete set of fully automatic operation unit, the device is an ideal turnkey project.

污泥脱水成套设备

SET OF SLUDGE DEWATERING EQUIPMENT



系统组成

SYSTEM COMPOSITION



污泥进料系统由污泥切割机、污泥进料泵、电磁流量计、电磁阀、电磁阀启动阀、管道、超声波污泥浓度计、超声波液位计、分离液出口的浓度计等组成。

有机高分子絮凝剂制备系统由干粉进料器、投配螺旋、混合器、振动器、搅拌器、液位控制仪、供水系统、螺杆投药泵及控制系统组成。

脱水污泥运送系统由无轴螺旋输送机和电动大闸阀等组成。



The sludge feed system consists of sludge cutter, sludge feed pump, electromagnetic flowmeter, electric valve, solenoid valve starting valve, pipeline, ultrasonic sludge concentration meter, ultrasonic liquid level meter, concentration meter at the outlet of separation liquid, etc.

The organic polymer flocculant preparation system is composed of dry powder feeder, dosing screw, mixer, vibrator, mixer, liquid level controller, water supply system, screw dosing pump and control system.

The dewatered sludge conveying system is composed of shaftless screw conveyor and large electric gate valve.

特点

CHARACTERISTIC



污泥中常含有纤维、较大颗粒、毛发等，仅仅使用离心泵经常会产生堵料问题，配用污泥进料系统可以完全解决这个问题。

Sludge contains fiber, large particles, hair, etc. the problem of material blockage often occurs only by using centrifugal pump. The problem can be completely solved by using sludge feeding system.

SZ系列叠螺污泥脱水机

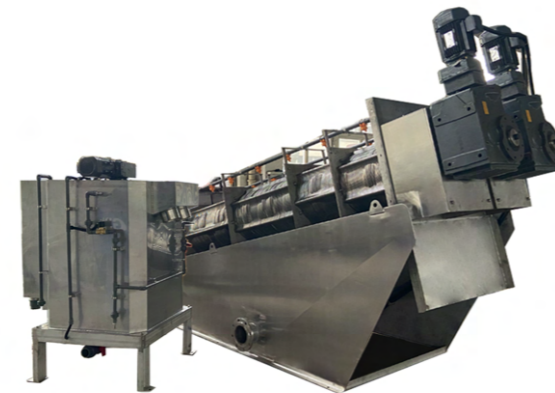
SZ SERIES SLUDGE DEWATERING PRESS



设备简介

EQUIPMENT INSTRUCTION

叠螺式污泥脱水机是一种设计紧凑占地空间小、低耗能低运行费用高节能高技术含量、便于维修及更换、重量小、便于搬运的设备。尤其适合中小型污水厂、乡镇污水厂、污水处理站。该脱水机以独特微妙的滤体模式取代了传统的滤布和离心的过滤方式,降低投资成本,提高处理效率。



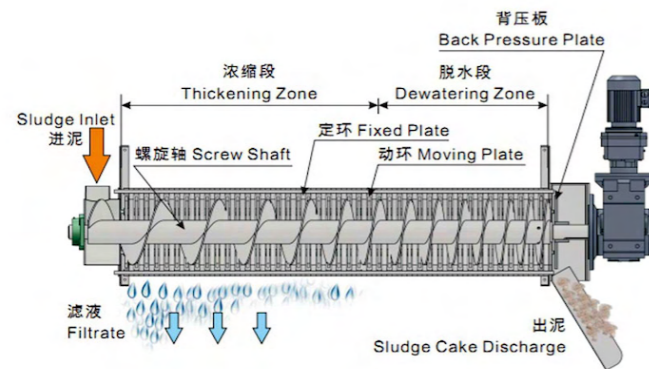
SZ SERIES SLUDGE DEWATERING PRESS

The stacked screw sludge dehydrator is a kind of equipment with compact design, small floor space, low energy consumption, low operation cost, high energy saving, high technical content, easy maintenance and replacement, small weight and easy handling.

It is especially suitable for small and medium-sized sewage plants, township sewage plants and sewage treatment stations. The dewatering machine replaces the traditional filter cloth and centrifugal filtering mode with a unique and subtle filter body mode, reduces the investment cost and improves the treatment efficiency.

工作原理

STRUCTURE PRINCIPLE



设备运行时,污泥从进料口进入滤筒后受到螺旋轴旋转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减小,因此污泥所受的压力随之不断增大,并在压差的作用下开始脱水,水分从固定环与活动环片过滤间隙流出。

同时设备依靠固定的板和活动板之间的自动清洗功能,清扫过滤之间的间隙防止堵塞,泥饼经过充分脱水后,在螺旋轴的推进作用下从卸料口排出。

During the operation of the equipment, after entering the filter cartridge from the feed port, the sludge moves to the discharge port due to the rotation of the screw shaft and the push of the plate. As the pitch between the screw shaft and the plate decreases gradually, the pressure on the sludge increases continuously, and begins to dehydrate under the action of the differential pressure, and the water flows out of the filtration gap between the fixed ring and the movable ring.

At the same time, the equipment relies on the automatic cleaning function between the fixed plate and the movable plate to clean the gap between the filters to prevent blockage. After the mud cake is fully dehydrated, it is discharged from the discharge port under the propulsion of the screw shaft.

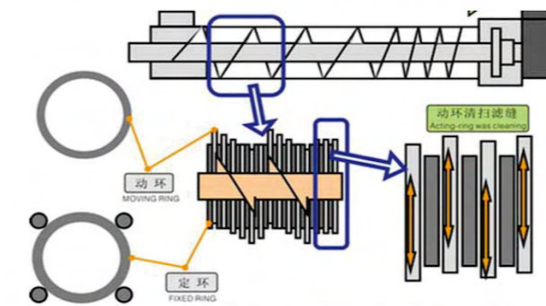
SZ系列叠螺污泥脱水机

SZ SERIES SLUDGE DEWATERING PRESS



技术优势

ADVANTAGES OF TECHNOLOGY



适用范围广

广泛用于市政污水、食品、饮料、印染、石油化工、造纸、皮革、制药等行业的污泥脱水,独特的设计适用于各种、低浓度类型污泥、更适用于含油污污泥脱水。

低能耗、无噪音

无需滚筒等大型机体,转速低,仅为 2-4 转每分钟。单位耗电仅为 0.01-0.1KW H/KG-DS。降低污泥脱水的运行成本。

不堵塞,自清洗

在螺旋轴的旋转作用下,动环和静环不断错动,从而实现了连续的自清洗过程,避免传统脱水机的堵塞问题。因此含抗油能力强,易分离,不堵塞,更无需高压水清洗,无二次污染。

全自动,连续运行

配合 PLC 自动控制系统,进行程序设定,实现 24 小时连续无人运行。从抽出污泥,注入加药,排除污泥实现全程的全自动化联动,真正实现污泥脱水连续自动化运行。

省费用,省投资

采用一体化设计,结构紧凑,节省占地空间;低螺旋挤压技术节省耗电量;动环静环设计自动清洗污泥,节省用水量;节省人工费;自带污泥浓缩功能,不需要浓缩及贮存单元,减少占地空间和建设成本。

BROAD APPLICATIONS

It is widely used for sludge dewatering in municipal sewage, food, beverage, printing and dyeing, petrochemical, papermaking, leather, pharmaceutical and other industries. The unique design is suitable for all kinds of low concentration sludge, especially oily sludge.

LOW ENERGY CONSUMPTION AND NO NOISE

There is no need for large bodies such as rollers, and the speed is low, only 2-4 revolutions per minute. The unit power consumption is only 0.01-0.1kw H / kg-ds. Reduce the operation cost of sludge dewatering.

NON CLOGGING, SELF-CLEANING

Under the action of the rotation of the screw shaft, the moving ring and the static ring are constantly staggered, so as to realize the continuous self-cleaning process and avoid the blockage of the traditional dehydrator. Therefore, it has strong oil resistance, easy separation, no blockage, no need for high-pressure water cleaning and no secondary pollution.

FULLY AUTOMATIC, CONTINUOUS OPERATION

Cooperate with PLC automatic control system for program setting to realize 24-hour continuous unmanned operation. From pumping out sludge, injecting chemicals and removing sludge, the full-automatic linkage of the whole process is realized, and the continuous automatic operation of sludge dewatering is truly realized.

SAVE COST AND INVESTMENT

Adopt integrated design, compact structure and save floor space; Low spiral extrusion technology saves power consumption; Dynamic and static rings are designed to automatically clean sludge and save water consumption; Save labor cost; With sludge thickening function, there is no need for thickening and storage unit, reducing floor space and construction cost.

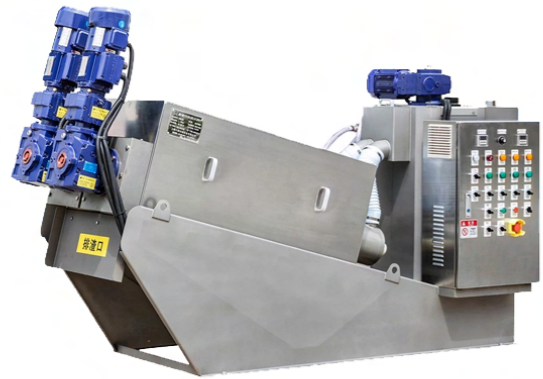
SZ系列叠螺污泥脱水机

SZ SERIES SLUDGE DEWATERING PRESS



整体结构

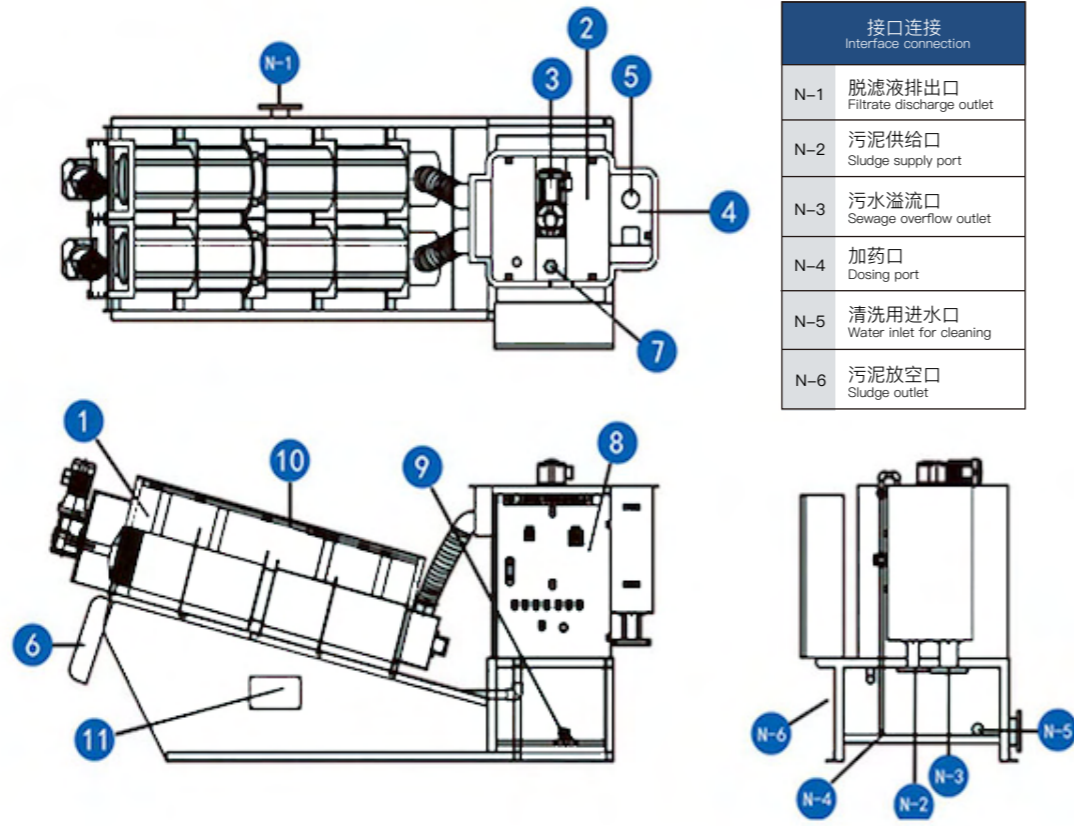
EQUIPMENT STRUCTURE



叠片式污泥脱水机主要由计量槽，絮凝混合槽，搅拌装置，脱水主体，滤液槽，电机，电控柜，支架构成，设备上面的进水和出水口全部采用法兰配置，方便现场管道连接。

The SZ series sludge dewatering press is mainly composed of metering tank, flocculation mixing tank, mixing device, dehydration main body, filtrate tank, motor, electric control cabinet and support. The water inlet and outlet on the equipment are all configured with flanges to facilitate on-site pipeline connection.

主要部件表 Name of Parts	
1	脱水机本体 Dehydrating subject
2	絮凝反应槽 Dehydrating subject
3	絮凝反应搅拌机 Flocculation reaction mixer
4	计量槽 Measuring instruments
5	水位调整器 Water level regulator
6	脱水干饼排泥斗 Dewatering sludge hopper
7	液位电极 Liquid level electrode
8	电控柜 Electrical Control Cabinet
9	清洗用电动阀 Water supply electric valve
10	喷淋 Spray
11	滤液集水槽 Filtrate collecting tank



SZ系列叠螺污泥脱水机

SZ SERIES SLUDGE DEWATERING PRESS



规格选型

SPECIFICATION SELECTION

型号	DS标准处理量 (kg/h)	污泥处理量 (m ³ /h)				
		10000mg/L	20000mg/L	30000mg/L	40000mg/L	50000mg/L
SZ101	5-7kg/h	0.5	0.25	0.2	0.15	0.14
SZ131	10-14kg/h	1	0.5	0.4	0.3	0.28
SZ201	15-20kg/h	1.5	0.75	0.6	0.5	0.4
SZ202	30-40kg/h	3	1.5	1.2	1	0.8
SZ203	45-60kg/h	4.5	2.25	1.8	1.5	1.2
SZ301	50-70kg/h	5	2.5	2	1.5	1.4
SZ302	100-140kg/h	10	5	4	3	2.8
SZ303	150-210kg/h	15	7.5	6	4.5	4.2
SZ304	200-280kg/h	20	10	8	6	5.6
SZ351	100-120kg/h	10	5	4	3	2.4
SZ352	200-240kg/h	20	10	8	6	4.8
SZ353	300-360kg/h	30	15	12	9	7.2
SZ354	400-480kg/h	40	20	16	12	9.6
SZ401	130-160kg/h	13	6.5	5	4	3.2
SZ402	260-320kg/h	26	13	10	8	6.4
SZ403	390-480kg/h	39	19.5	15	12	9.6
SZ404	520-640kg/h	52	26	20	16	12.8

尺寸选型

SIZE SELECTION

型号	主体规格 (Φ)	泥饼排出口 离地面距离 (mm)	功率 (kw)			清洗 水量	易损件更换周期		外形尺寸 (mm)			净重 (kg)	运行重量 (kg)
			螺旋轴	搅拌机	合计		螺旋	动静环	长(L)	宽(W)	高(H)		
SZ101	100x1	215	0.18	0.18	0.36	24	5	3	1850	740	1040	220	315
SZ131	130x1	250	0.18	0.18	0.36	48	5	3	2000	785	1040	250	395
SZ201	200x1	350	0.37	0.18	0.36	32	5	3	2510	900	1300	420	540
SZ202	200x2	350	0.74	0.55	1.29	64	5	3	2560	1050	1300	550	660
SZ203	200x3	350	1.11	0.55	1.66	96	5	3	2610	1285	1300	700	1010
SZ301	300x1	530	0.75	0.55	1.3	40	10	3	3330	1005	1760	900	1300
SZ302	300x2	530	1.5	0.75	2.25	80	10	5	3530	1290	1760	1350	2000
SZ303	300x3	530	2.25	1.1	3.35	120	10	5	3680	1620	1760	1900	2700
SZ304	300x4	530	3	1.1	4.1	160	10	5	3830	2010	1760	2500	3600
SZ351	350x1	570	1.1	0.75	1.85	60	10	5	4005	1100	2130	1100	2000
SZ352	350x2	570	2.2	1.1	3.3	120	10	5	4390	1650	2130	2100	3250
SZ353	350x3	570	3.3	1.5	4.8	180	10	5	4520	1980	2130	3100	4600
SZ354	350x4	570	4.4	0.75+0.75	4.8	240	10	5	4750	2715	2130	4100	5700
SZ401	400x1	660	1.1	1.1	2.6	80	10	5	4680	1100	2100	2200	4200
SZ402	400x2	660	3	1.5	4.5	160	10	5	4690	1760	2100	3500	6000
SZ403	400x3	660	4.5	1.1+1.1	6.7	240	10	5	5010	2585	2100	5500	8000
SZ404	400x4	660	6	1.1+1.1	8.2	320	10	5	5160	3160	2100	7000	9500

SZ系列叠螺污泥脱水机

SZ SERIES SLUDGE DEWATERING PRESS

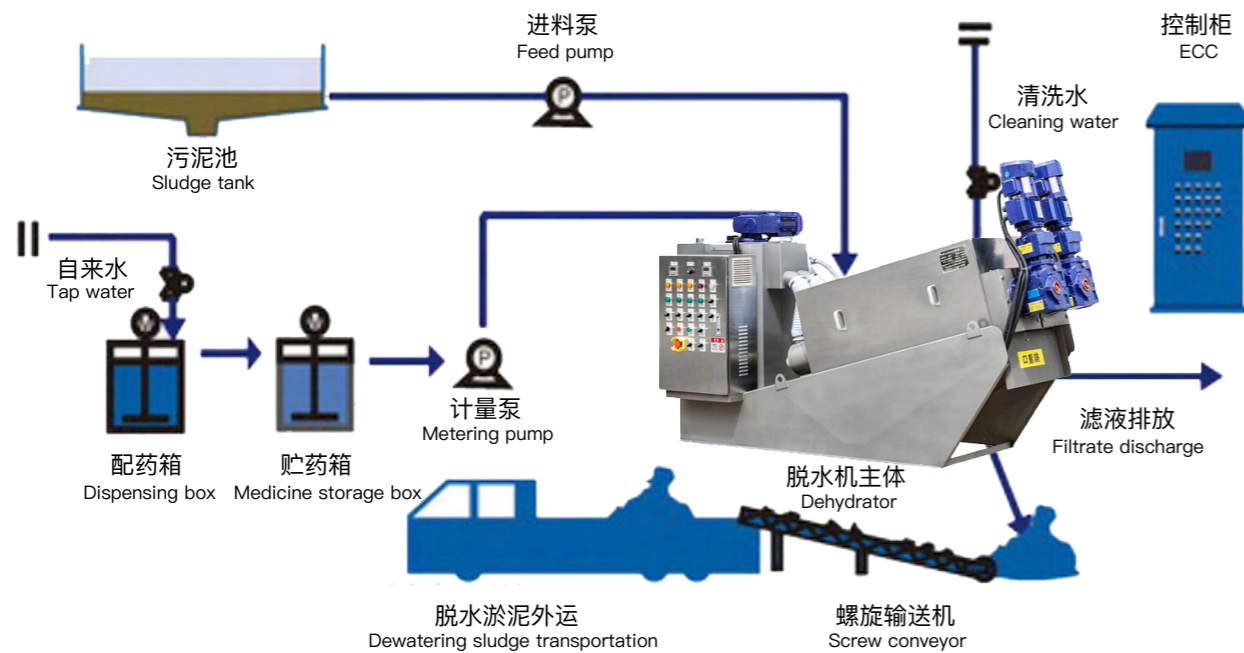


工艺流程

TECHNOLOGICAL PROCESS

通过自动泡药装置制备絮凝剂溶液。污泥通过污泥输送泵絮凝剂溶液，絮凝剂溶液通过加药泵，按照相应的比例投加到絮凝混合槽内，通过搅拌机进行充分的混合成絮状物进入叠螺式污泥脱水机。进入叠螺脱水机的浓缩部分进行重力浓缩，滤液从浓缩部的滤渣重排出。

滤液经解返回原水池。经过浓缩后的污泥沿着螺旋轴方向向前推进，在各种合力的作用下进入叠螺脱水机的脱水部进行充分的脱水。滤液可流回到絮凝剂混合槽进行再次脱水。经过浓缩 - 脱水后泥饼直接从排泥口排出，通过无轴螺旋输送机直接输送到运泥车，脱水完成。



Flocculant solution is prepared by automatic drug foaming device. The sludge passes through the sludge delivery pump and the flocculant solution is added into the flocculation mixing tank according to the corresponding proportion through the dosing pump. It is fully mixed into flocs through the mixer and enters the stacked screw sludge dehydrator.

It enters the concentration part of the stacking screw dehydrator for gravity concentration, and the filtrate is discharged from the filter of the concentration part. The filtrate is dismembered and returned to the raw water tank.

The concentrated sludge is pushed forward along the spiral axis and enters the dewatering part of the screw stack dehydrator for full dehydration under the action of various resultant forces. The filtrate can flow back to the flocculant mixing tank for dehydration again. After concentration dehydration, the mud cake is directly discharged from the mud discharge port and directly transported to the mud truck through the shaftless screw conveyor, and the dehydration is completed.

SZ系列叠螺污泥脱水机

SZ SERIES SLUDGE DEWATERING PRESS



移动式脱水设备

MOVABLE TYPE OF DEWATERING PRESS

车载式污泥脱水机(化粪池清理车、移动脱水机), 包括车体、污泥压干机、进料泵和搅拌装置。进料泵安装在所诉车体的一侧, 进料泵的出口端连接着管道, 管道的另一端连接着搅拌装置, 搅拌装置中设有空气压缩系统, 搅拌装置的污泥出口处连接着污泥压干机, 压干机的出料处依次连接着皮带机和集装箱, 搅拌装置、污泥压干机和皮带机安装在车体中部, 集装箱则安装在车体的后方。



Vehicle mounted sludge dehydrator (septic tank cleaning vehicle and mobile dehydrator), including vehicle body, sludge dryer, feed pump and mixing device. The feed pump is installed on one side of the alleged vehicle body, the outlet end of the feed pump is connected with the pipeline, the other end of the pipeline is connected with the mixing device, the mixing device is equipped with an air compression system, the sludge outlet of the mixing device is connected with the sludge dryer, the source of the dryer is successively connected with the belt conveyor and container, and the mixing device, sludge dryer and belt conveyor are installed in the middle of the vehicle body, The container is installed at the rear of the vehicle body.

设备优势

EQUIPMENT ADVANTAGES

设备为集成叠螺机系统, 并搭载卡车, 实现任意地点, 在任何时候的, 污泥脱水工作。设备新型实用, 可移动工作, 可采用电控箱控制整个工作流程, 使得各种操作缓解变的更为方便; 同时可持续电动工作, 工作效率高, 安全环保, 有效的降低了工作人员的劳动强度。并且还配备有发电机组, 可在没有三相电的情况下继续工作。

The equipment is an integrated screw stacker system and is equipped with trucks to realize sludge dewatering at any place and at any time. The equipment is new and practical, movable, and can use the electric control box to control the whole work flow, making various operations more convenient; At the same time, sustainable electric work, high work efficiency, safety and environmental protection, effectively reducing the labor intensity of staff. It is also equipped with a generator set, which can continue to work without three-phase power.

粪便微滤式固液分离器

FECAL MICROFILTRATION SOLID-LIQUID SEPARATOR



设备简介

EQUIPMENT INSTRUCTION

微滤式固液分离机式针对传统固液分离机, 对于浓度高、含渣率少或细小的物料无法处理及处理效率低、出水含渣率高的缺点而设计的。(如水冲猪粪、鸭粪、尿泡粪、沼渣沼液等)。

污水由输送泵抽取至主机, 先经过微滤式处理器(可自由选择设置高密度筛网), 出水、进水、储水池或者污水处理系统。固体经过螺旋推送装置进入螺旋挤压机, 经过螺旋挤压机的再一次过滤, 干料出料较干可直接装袋。螺旋挤压出水含固率高, 则返回原污水池。

主机箱体为 304 不锈钢, 螺旋挤压脱水机主体为球铁铸造, 纹龙主轴及螺旋叶片为不锈钢, 滤网为 304 不锈钢条形滤网, 机架为热镀锌管或不锈钢。



Microfiltration solid-liquid separator is designed for the disadvantages of traditional solid-liquid separator, such as high concentration, low slag content or small materials, low treatment efficiency and high slag content in effluent. (such as pig manure, duck manure, urine soaked manure, biogas residue, biogas slurry, etc.).

The sewage is pumped to the main engine by the transfer pump, and first passes through the microfiltration processor (high-density screen can be set freely), water outlet, water inlet, water storage tank or sewage treatment system. The solid enters the screw extruder through the screw pushing device and is filtered again by the screw extruder. The dry material is dry and can be directly bagged. If the solid content of spiral extrusion effluent is high, it will be returned to the original sewage tank.

The main body of the main machine is 304 stainless steel, the main body of the screw extrusion dehydrator is ductile iron casting, the main shaft and spiral blades of the dragon are stainless steel, the filter screen is 304 stainless steel strip filter screen, and the frame is hot-dip galvanized pipe or stainless steel.

产品参数

SPECIFICATION

型号	总功率 (kw)	长 (mm)	宽 (mm)	高 (mm)	重量 (kg)	处理量 (m ³ /h)	进料直径 (mm)	分离后污水口直径 (mm)
640	8.5	3800	2000	1900	750	10-15	76	108/166
640加长	8.5	4300	2000	1900	800	15-20	76	108/160
780	10	3800	2250	1900	900	20-30	76	108/160
780加长	10.7	4300	2250	1900	1000	30-40	76	108/160

PY3型一体化絮凝剂制备装置

PY3 FLOCCULANT PREPARATION DEVICE



设备简介

EQUIPMENT INSTRUCTION

Py3 型一体化絮凝剂制备装置适用于高分子有机絮凝剂的制备和投加, 用户只需将药剂干粉直接加入设备的料斗中, 即可实现全自动的投料、溶解、熟化、储存、计量加药等过程, 整个设备无需人为操作, 完全自动运行。

设备采用三槽式结构, 分别用来进行搅拌、熟化和贮存。配套设备主要由干粉进料器、投配螺旋、混合器、振动器、搅拌器、液位控制仪、供水系统、螺杆投药泵及控制系统组成。

Py3 integrated flocculant preparation device is applicable to the preparation and dosing of polymer organic flocculant. Users only need to directly add the reagent dry powder into the hopper of the equipment to realize the full-automatic feeding, dissolution, ripening, storage, metering and dosing processes. The whole equipment operates completely automatically without human operation.

The equipment adopts three tank structure, which is used for mixing, curing and storage respectively. The supporting equipment is mainly composed of dry powder feeder, dosing screw, mixer, vibrator, mixer, liquid level controller, water supply system, screw dosing pump and control system.



性能特点

PERFORMANCE CHARACTERISTICS

全自动运行, 药液浓度恒定, 投加准确。

设备结构精巧, 占地面积小。

药剂浸润及加热系统, 避免干粉结块及溶解不均的现象。

配套附件采用先进的进口器件, 使用寿命长。

设备槽体采用耐腐蚀优质的 pp 材质, 美观耐用

控制系统先进, 设备运行连续、平稳、安全。

Fully automatic operation, constant drug concentration.

Exquisite structure and small floor area.

Reagent system to avoid dry powder caking and uneven dissolution.

Accessories are imported durable components.

Corrosion resistant PP material of equipment tank

The control system operates continuously, stably and safely

产品参数

SPECIFICATION

型号	产量 (L/h)	功率 (KW)	料斗 (L)	重量 (kg)	材质
Py3-500	500	1.0	55	210	304/PP
Py3-1000	1000	1.0	55	360	304/PP
Py3-1500	1500	1.0	110	420	304/PP
Py3-2000	2000	1.0	110	500	304/PP
Py3-3000	3000	3.0	200	650	304/PP
Py3-4000	4000	3.0	200	900	304/PP
Py3-8000	8000	3.0	550	1280	PP

控制系统

CONTROL PANEL



设备简介

EQUIPMENT INSTRUCTION

离心机的主机采用双电机、双变频控制和高性能变频器构成的能量反馈型驱动、功能完备的控制系统组成。

电控柜预留 Profibus-Dpormodbus 通讯接口, 通过通讯接口实现离心机主副机的运行及故障状态、运行参数 (主机电流、主机转速、副机力矩) 信号远传到用户 DCS 的功能。

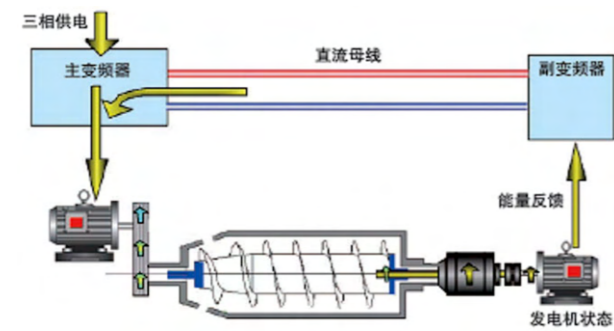


The main machine of the centrifuge is composed of an energy feedback driving and fully functional control system composed of dual motors, dual frequency conversion control and high-performance frequency converter.

PROFIBUS dpormodbus communication interface is reserved in the electric control cabinet to realize the function of remote transmission of operation and fault status, operation parameters (host current, host speed and auxiliary torque) signals of the main and auxiliary machines of the centrifuge to the user DCS through the communication interface.

性能特点

PERFORMANCE CHARACTERISTICS



主变频器、副变频器直流母线直线并连, 节能节电效果明显, 离心机运行时副电机为发电状态, 连续工作。

启动平缓, 调速范围宽, 满足不同含固率液体的处理, 提高处理量。

主电机和副电机均采用变频器控制, 实现离心机转鼓转速和差转速的设计范围内的无级可调, 通过调节副电机的转速可以获得合力的差转速。

The DC bus of main frequency converter and auxiliary frequency converter are connected in a straight line, which has obvious energy-saving and power-saving effect. When the centrifuge is running, the auxiliary motor is in power generation state and works continuously.

The start-up is gentle and the speed regulation range is wide, which can meet the treatment of liquids with different solid content and improve the treatment capacity.

The main motor and auxiliary motor are controlled by frequency converter to realize stepless adjustment within the design range of centrifuge drum speed and differential speed. The differential speed of resultant force can be obtained by adjusting the speed of auxiliary motor.

离心机主要零件和配件

PARTS AND ACCESSORIES



转鼓 DRUM

转鼓是由锥圆体和圆柱体构成的圆柱 - 圆锥形转子, 这种形态是为了更好的分离性能, 转鼓高速旋转时, 带动浆料一起旋转, 在离心力的作用下, 较重的固体颗粒就会从液体中分离出来。本转鼓圆柱部分是利于滤液澄清 (离心分离), 圆锥部分利于固体物料脱水。



The drum is a cylindrical conical cylindrical rotor composed of cone and cylinder. This shape is for better separation performance. When the drum rotates at high speed, it drives the slurry to rotate together. Under the action of centrifugal force, heavier solid particles will be separated from the liquid. The cylindrical part of the drum is conducive to the clarification of filtrate (centrifugal separation), and the conical part is conducive to the dehydration of solid materials.

螺旋 SCREW

螺旋卸料器: 加速喂料浆料及将沉积在转鼓内壁上的物料推到离心机固体卸料端的作用, 螺旋部分是由缠绕在螺旋卸料器芯轴外周的螺旋叶片构成, 组合成多级螺旋结构, 达到卸料的目的。



screw: it accelerates the feeding of slurry and pushes the materials deposited on the inner wall of the drum to the solid unloading end of the centrifuge. The spiral part is composed of spiral blades wound around the outer circumference of the core shaft of the spiral unloader, which are combined into a multi-stage spiral structure to achieve the purpose of unloading.

差速器 DIFFERENTIAL MECHANISM

差速器驱动螺旋卸料器, 并使之以相对外转鼓的恒定速度转动, 差速器的减速比及外转鼓转速决定了外传鼓及螺旋卸料器的转速差。



The differential drives the screw discharger and makes it rotate at a constant speed of the external drum. The speed difference between the external drum and the screw discharger is determined by the reduction ratio of the differential and the speed of the external drum.

硬质合金和耐磨套

CEMENTED CARBIDE AND WEAR SLEEVE



配件 PARTS



应用领域

APPLICATIONS

应用领域 Applications	液相澄清 Liquid-Liquid Separation	物料脱水 Solid-Liquid Separation	粒度分级 Particle classification
市政污水 Municipal sewage	污水处理厂 Sewage treatment plant	市政污泥脱水 Municipal sludge dewatering	
	自来水厂污水 Sewage from waterworks	河道清淤泥浆 River mud	
	垃圾渗透液处理 Waste leachate treatment	化粪池 Septic Tank	
	洗砂、制砂厂废水 Wastewater from sand making plant	打桩、盾构泥浆等 Pile driving, shield mud	
工业废水 Industrial sewage	印染、造纸废水 Dyeing, Papermaking wastewater	电厂脱硫污泥 Desulfurization sludge treatment	
	电镀、制革废水 Electroplating, Leather wastewater	金属加工污泥 Metal processing sludge	
	纺织、化纤废水 Textile, Chemical fiber wastewater	制碱厂碱渣 Soda Residue of Soda Mill	
	石墨废水污泥等 Graphite sludge		
化工、矿业 Chemical industry, Mineral	钢铁厂废水 Steel works wastewater	聚氯乙烯 PVC	二氧化钛 TiO ₂
	洗煤厂废水 Coal washery wastewater	结晶体、双氰胺分离 Separation of crystal and DCD	高岭土 Kaolin clay
	石材厂废水 Waste water from Stone Factory	轮胎粉末 Tire powder	硅藻土 Diatomite
	各类金属矿废水 Various metal ore wastewater	磁性材料 Magnetic material	白垩 Cretaceous
		瓷土、碳酸钙 Porcelain clay, CaCO ₃	炭白、炭黑等 Carbon white, carbon black, etc
食品生产加工 Food production and processing	果肉果汁分离 Separation of pulp and juice	餐厨垃圾 Kitchen waste	
	植物油分离 Vegetable oil separation	蛋白分离 Protein separation	
	蔬菜汁分离 Vegetable juice separation	淀粉脱水 Starch dewatering	
	地沟油、餐厨废水 Illegal cooking oil, kitchen wastewater	酒糟脱水 Distiller's grains dewatering	
	火锅底料除渣 Hotpot seasoning slag removal	烟草、甘草 Tobacco, licorice	
	啤酒、葡萄酒废水 Beer, wine wastewater	豆渣 Bean dregs	

应用领域 Applications	液相澄清 Liquid-Liquid Separation	物料脱水 Solid-Liquid Separation	粒度分级 Particle classification
医药、生物 Medicine and Biology	制药厂综合污水 Sewage of pharmaceutical factory	中药渣脱水 Dehydration of Chinese herb residue	
	抗生素、青霉素 Antibiotics, penicillin	草药加工 Herbal processing	
	硫酸盐、柠檬酸钙 Sulfate, calcium citrate		
	氯化钾 Potassium chloride		
石油、天然气 Oil and natural gas	石化原油提炼 Petrochemical crude oil refining	油泥砂减量化 Oil sludge reduction	
	矿物油回收 Mineral oil recovery	钻井泥浆处理 Drilling mud treatment	
		含油泥处理 Oily sludge treatment	
养殖废水 Aquaculture wastewater	畜牧场废水处理 Animal Wastewater Treatment	畜牧场粪便处理 Animal manure treatment	
	沼液处理 Biogas slurry treatment	沼渣脱水 Biogas residue dehydration	
	屠宰场废水处理 Abattoir Wastewater Treatment		
	动物血液/脂肪处理 Animal blood/fats treatment		
	屠宰场副产品加工 Abattoir by-product processing		
其他行业 Other industries	高浓度酒精 High concentration alcohol	非金属矿浆 Non-metallic pulp	塑料碎料回收 Plastic scrap recycling
	有机溶液 Organic solution	洗车污泥 Car washing sludge	云母片 Mica sheet
	船舱底水 Bilge water	石膏浆 Gypsum slurry	滑石粉 Talcum Powder
			珍珠粉 Pearl Powder
			海泡石 Sepiolite

我们的服务

OUR SERVICES



服务提供

SERVICE PROVIDER

提供完整资料：安装基础图（成套设备还包括平面安装布置图），管路图。

卧螺离心机使用说明书，变频器使用说明书，合格证，装箱清单交货时提供（成套设备还包括附属设备的使用说明书）。专用工具，备品备件。



Provide complete data: installation foundation drawing (complete set of equipment also includes plane installation layout), pipeline drawing. The operation manual of horizontal screw centrifuge, operation manual of frequency converter, certificate of conformity and packing list shall be provided during delivery (the complete set of equipment also includes the operation manual of auxiliary equipment). Special tools and spare parts.

售前

根据客户实际情况提供技术支持，为客户选型提供最佳的分离机械。

Provide technical support according to the actual situation of customers and provide customers with the best separation machinery.

售中

与客户深入交流如：根据方案内容及合同条款安排生产，情况变动确认。

In depth communication with customers, such as arranging production according to the scheme content and contract terms, and confirming the change of situation.

售后

指导安装，上门调试，技术培训，免费提供

IGuide installation, on-site commissioning, technical training, free of charge



产品展示

PRODUCTS DISPLAY



工程案例

PROJECT CASES



中国海洋石油钻井平台
CNOOC drilling platform



中国海洋石油钻井平台
CNOOC drilling platform



酒糟分离
Distiller's grains separation



自来水厂
Tap Water Factory



自来水厂
Tap Water Factory



自来水厂
Tap Water Factory



城市污水处理
Urban sewage treatment



城市污水处理
Urban sewage treatment



酒糟分离
Distiller's grains separation



造纸污水处理
Papermaking wastewater treatment



电厂脱硫
Power plant desulfurization



制药厂脱水处理
Sewage treatment of pharmaceutical plant

工程案例

PROJECT CASES



养殖粪便处理
Breeding manure treatment



洗涤污水处理
Washing sewage treatment



出水厂污水处理
Effluent treatment plant



自来水厂处理
Water treatment plant



乳液加工处理
Emulsion processing



活性污泥处理
Activated sludge treatment



化工污泥处理
Chemical sludge treatment



酒厂酒糟分离
Distillery distiller's grains separation



食品加工分离
Food processing separation



冶炼污水处理
Smelting sewage treatment



洗涤污泥处理
Washing sludge treatment



药厂过滤分离
Pharmaceutical filtration separation