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HENGYUAN XINDA

STACKED SCREW MACHINE

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Weifang Hengyuan Environmental
Water Treatment Equipment Co.,Ltd.

Company profile

Weifang Hengyuan Environmental Protection Water Treatment Equipment Co., Ltd. is located in the beautiful kite capital of the world-Weifang City, is a comprehensive production-oriented high-tech enterprise integrating research and development, production and sales of water treatment equipment, disinfection equipment and ecological toilets, the company was founded in January 2011, with a standardized production workshop of more than 30,000 square meters.

The company has environmental protection engineering level 2 qualification, 7 invention patents, 36 utility model patents, 1 appearance patent, 6 software copyrights, 27 water-related approvals, 8 disinfection records and other related qualifications. We have passed ISO9001 quality system certification, ISO14001 environmental management system certification, ISO45001 occupational health and safety management system certification and after-sales service system certification and other authoritative certifications. Selected by the national environmental protection equipment manufacturing industry (sewage treatment) standard conditions of enterprises, the national water conservancy system bidding products key procurement directory enterprises, and was named a high-tech enterprises, the province specializing in new small and medium-sized enterprises, the province innovative small and medium-sized enterprises, the province "morning star factory", a enterprise a technology research and development center and other honorary titles.

The company's main products are: integrated (life, hospitals, breeding, etc.) sewage treatment equipment, air flotation machine (vortex concave, dissolved air, vertical flow, shallow), sedimentation tank (advection, vertical flow), ecological latrines, anaerobic reactor, the center of the rotating scraper, cyclone sedimentation tank sand remover, rotary mechanical grid, sludge treatment (plate and frame filter press, belt filter press, stacked screw machine), integrated water purification equipment, Filtration device (activated carbon filter, iron and manganese filter, quartz sand filter), dosing device (PAC dosing device, PAM dosing device, basic dosing device), disinfection equipment (sodium hypochlorite generator, ozone generator, electrolysis chlorine dioxide generator, chemical chlorine dioxide generator, disinfection doser, slow-release disinfector, small hospital wastewater treatment machine, oral, outpatient) Sewage treatment equipment, high-efficiency sewage disinfection equipment), dechlorination device (chemical feeder, acid mist absorber, dechlorination device), supporting series (PLC control cabinet, chlorine leakage alarm, residual chlorine detector, microcomputer controller, metering pumps, aeration machine, turbidity meter, water jets and other equipment).

At present, the company's water treatment equipment, disinfection equipment service areas covering municipal water supply, municipal sewage treatment, medical systems, residential communities, highways, scenic spots, various types of factories (aquaculture factories, chemical factories, etc.), industrial recycling of cooling water, water reuse and so on. Eco-toilets are widely used in public places such as municipalities, scenic spots, squares, harbors and busy commercial areas. "Hengyuan Xinda" brand series of products sell well throughout the country and in Mexico, Thailand, South Korea, Namibia, Sri Lanka and other countries at home and abroad, and have been well received by customers!

The company has strong technical force, has its own laboratory and a large number of management, scientific research and technical personnel, to provide customers with excellent pre-sales, sales and after-sales service, and according to the customer's water conditions, the design of reasonable water treatment equipment and equipped with the program, so as to achieve economic and practical, high quality and high efficiency.

Weifang Hengyuan Environmental Protection Water Treatment Equipment Co., Ltd. is committed to the water treatment industry in line with the business philosophy of "quality first, integrity-based" and the corporate purpose of "external achievement of customers, internal achievement of the staff" to build a good ecological environment to lay a solid foundation, but also the "green water" of mankind and society. Humanity and society "green water and mountains".



HONORARY QUALIFICATIONS

























★ Environmental protection equipment manufacturing industry standardized conditions of enterprises
★ High and New Technology Enterprises
★ Provincial Specialized and Specialized New Small and Medium-sized Enterprises
★ Environmental Protection Engineering Specialized Contractor Grade II Qualification
★ Provincial Innovative Small and Medium-sized Enterprises

★ 27 approvals related to drinking water
★ 1 appearance patent
★ 7 invention patent
★ 36 utility model patents
★ 6 software copyrights

★ Sterilization record 8
★ Quality management system certification
★ Environmental management system certification
★ After-sales service system certification
★ Occupational Health and Safety Management System Certification

Stacking screw machine



Product Overview

- Stacked screw machine, short for stacked screw sludge dewatering machine, is a kind of water treatment system widely used in municipal wastewater treatment projects as well as petrochemical, light industry, chemical fiber, papermaking, pharmaceutical, leather and other industrial industries. The actual operation situation proves that the stacked screw sludge dewatering can create considerable economic and social benefits for customers.

Principles of construction

- The main body of the dewatering machine consists of a stack of fixed and moving rings, with a screw shaft running through it to form a filtering device. The front section is the thickening section and the rear section is the dewatering section. The filter slit formed between the fixed and moving rings and the pitch of the screw shaft are gradually reduced from the concentrating section to the dewatering section. The rotation of the screw shaft drives the sludge from the thickening section to the dewatering section, and at the same time, it also drives the travelling ring to clean the filtering slit to prevent clogging. It is composed of device, discharging device, air control system, electric control system and so on.

Working Principle

- Concentration: When the spiral propeller shaft rotates, the multiple solid and active stacks located at the periphery of the propeller shaft move relative to each other, and the water is filtered out from the gap of the relative moving stacks under the action of gravity, realizing rapid concentration. Under the effect of gravity, water is filtered out from the gap of the relatively moving stacks, realizing rapid concentration.
- Dewatering: the thickened sludge moves forward with the rotation of the spiral shaft; along the direction of the mud cake outlet, the pitch of the spiral shaft gradually becomes smaller, and the gap between the ring and the ring gradually becomes smaller, and the volume of the spiral cavity shrinks continuously; under the action of the back pressure plate at the outlet, the internal pressure gradually strengthens, and under the continuous operation of the spiral propelling shaft in order to propel it, the water in the sludge is squeezed and discharged, and the solids content of the filter cake is constantly rising, and the continuous dewatering of sludge is realized at last.
- Self-cleaning: the rotation of the spiral shaft pushes the swimming ring to rotate continuously, and the equipment relies on the movement between the fixed ring and the swimming ring to realize the continuous self-cleaning process, thus cleverly avoiding the clogging problem commonly found in traditional dewatering machines. Thus, it skillfully avoids the clogging problem commonly found in traditional dewatering machines.

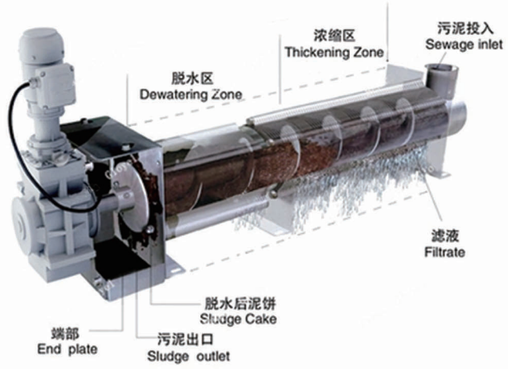
Scope of Application

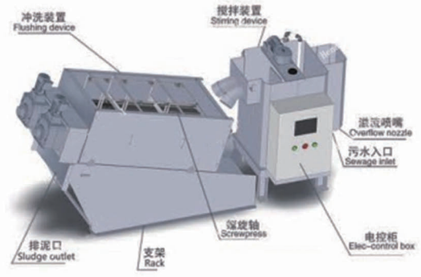
- It is suitable for sludge from municipal sewage, food, beverage, chemical, leather, welding material, paper making, printing and dyeing, pharmaceutical and other industries.
- It is suitable for the dewatering of high and low concentration sludge. When carrying out low concentration sludge dewatering, there is no need to build thickening and storage tanks, which reduces the construction cost, the release of phosphorus and the generation of anaerobic odor.

Stacked screw machine



Structural principle





Specification

Stacking screw machine	Standard Material	Absolute dry sludge treatment capacity(kg-Ds/h)	Overall dimensionsL*W*H(mm)			Equipment weight(kg)		power(kw)
			(L)long	(W)wide	(H)high	Net weight	working	
HY101	S.S.304 (optional with other materials)	4~10kg-/h	2200	800	1300	178	245	1.12
HY201		9~20kg-/h	2900	800	1500	250	390	1.3
HY202		18~40kg-/h	3000	1100	1500	450	650	2.05
HY301		30~60kg-/h	3300	900	1720	700	1230	1.65
HY302		60~120kg-/h	3500	1200	1720	1300	2050	2.2
HY303		90~180kg-/h	3500	1600	1700	1750	3100	4.4
HY401		80~200kg-/h	4300	1100	1900	1350	3500	2.2
HY402		160~380kg-/h	4300	1400	1900	2350	3650	3.3
HY403		240~550kg-/h	4300	2000	1950	3050	4550	4.4
HY501		200~300kg-/h	5000	1200	1900	1510	3000	2.6
HY502		400~600kg-/h	5100	1600	1900	2800	4500	4.1
HY503		600~900kg-/h	5100	2300	1900	4100	5500	5.6

Our Advantages

1. Strong ability to resist oily sludge, easy to separate, no clogging

The dewatering body of the screw stacked sludge dewatering machine is formed in a filter cylinder structure formed by overlapping a fixed ring and a moving ring, and the screw shaft runs through it. While conveying the sludge, the stacked rotary shaft pushes the swimming ring to make a circular motion, which has the function of automatically cleaning the filter seam. Especially for oily sludge with strong viscosity, it has indisputable advantages compared with traditional dewatering machines. The dehydration part of the dehydrator is blocked during operation, which will hinder the discharge of the filtrate, and the dehydration performance will be greatly reduced.

2. Sludge concentration and dehydration are integrated, and low-concentration sludge can be directly dehydrated

Automatic Spiral Stacked Screw Type Press Sludge Dewatering Machine for Municipal Engineering.