

四川腾宇新创环保设备制造有限公司

SICHUAN TENG YU XIN CHUANG ENVIRONMENTAL PROTECTION EQUIPMENT MANUFACTURING CO., LTD

高端筛分水洗分级综合解决方案 服务商（非金属矿）

HIGH END SCREENING, WASHING,
AND GRADING COMPREHENSIVE
SOLUTION SERVICE PROVIDER
(NON METALLIC MINERAL)

PRODUCT CATALOG

产品画册

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四川腾宇新创环保设备制造有限公司

TYXC Environmental Protection Equipment Manufacturing Co., Ltd.

➡ 企业及产品简介

四川腾宇新创是矿山及砂石骨料领域专业环保设备制造商，深耕洗煤、金属矿、非金属矿、砂石等领域，主打筛分、洗选核心设备，同时研发生产破碎、过滤设备及尾矿干排系统，凭先进工艺和定制化解决方案获市场认可，致力成为国内外优质系统供货商。公司已通过质量、环境、职业健康安全管理体系认证，综合实力行业领先。

#核心产品体系

- 以香蕉筛、弛张筛、直线振动筛为核心筛分主打产品；
- 配套全系列洗选设备；
- 品类全、适配多行业工况且性价比高；
- 同步供应矿山破碎相关设备。

★核心筛分设备

弛张筛、高频叠层振动细筛、直线等厚筛、直线振动筛等；

★配套破碎设备

颚式、圆锥、反击式等矿山破碎机；

★成套洗选及系统设备

洗选过滤成套设备、尾矿干排系统等。

#企业核心优势与理念

★经营宗旨

质量第一，用户至上；

★硬实力

拥有现代化生产基地、专业技术团队，严控品控、高效履约；

★服务愿景

聚焦筛分洗选核心需求，为全球客户提供高品质产品与服务，赋能行业绿色发展。

➡ Company & Product Profile

TYXC Co., Ltd. is a professional environmental protection equipment manufacturer focusing on the mining and sand & aggregate industries. With deep roots in coal washing, metal ore, non-metal ore, sand & gravel and other fields, the company specializes in screening and washing equipment, and also researches, develops and manufactures crushing, filtering equipment and tailings dry discharge systems. Recognized by the market for its advanced technology and customized solutions, it is committed to becoming a high-quality system supplier at home and abroad. The company has obtained certifications in quality, environmental, and occupational health and safety management systems, leading the industry in overall strength.

Core Product System

With banana screen, flip-flop screen and linear vibrating screen as the core screening products, matched with a full range of washing equipment, the company offers a complete product portfolio suitable for various working conditions with high cost performance. It also supplies mining crushing equipment, mainly including:

★Core Screening Equipment

Flip-flow screen, high-frequency multi-layer vibrating fine screen, linear equal-thickness screen, linear vibrating screen, etc.

★Supporting Crushing Equipment

Jaw crusher, cone crusher, impact crusher and other mining crushers.

★Complete Washing & System Equipment

Complete washing and filtering equipment, tailings dry discharge system, etc.

Core Strengths & Corporate Philosophy

★Business Tenet

Quality First, Customers Supreme.

★Core Strengths

Modern production base, professional technical team, strict quality control and efficient delivery.

★Service Vision

Focus on the core demands of screening and washing, provide global customers with high-quality products and services, and empower the green development of the industry.

公司资质COMPANY QUALIFICATION



CONTENTS 目录

CX-搅拌式擦洗机 CX - Stirring scrubbing machine ----- 01

GTX-滚筒擦洗机 GTX-Roller Scrubber Machine ----- 03

FC/FG-螺旋分级机 FC/FG-Spiral Classifiers ----- 05

TX-LX-螺旋洗砂机 TX-LX-Spiral Sand Washers ----- 07

Mb棒磨机 MB Rod Mills ----- 09

FX-高效水力旋流器 FX-Efficient Hydrocyclones ----- 10

TND-脱泥斗 TND-De-sliming Hoppers ----- 11

GSF-水力分级机 GSF-Hydrocyclones ----- 12

TX-GDZS-系列高频叠层振动细筛 TX-GDZS-Series High-Frequency Overlapping Vibrating Fine Screens ----- 13

FMVS-复合型电磁高频筛 FMVS-Composite Electromagnetic High-Frequency Screens ----- 15

SKT跳汰机 SKT Jigging Machine ----- 17

斗式提升机 Bucket Elevator ----- 19

TX-CZ-弛张筛 TX-CZ Flip Flow Screen ----- 20

TX-XYK稀油圆形振动筛 TX-XYK-Circular Vibrating Screens ----- 21

TXG-高频直线振动脱水筛 TXG-High Frequency Linear Vibrating Dewatering Screens ----- 22

TXZD-直线香蕉筛 TXZD-Linear Banana Screens ----- 23

TX-ZKX箱式稀油直线筛X-ZKX Box Type Oil-Lubricated Linear Screen ----- 25

TX-XZK直线振动筛 TX-XZK-Linear Vibrating Screens ----- 27

TX-BSG – 波动辊式喂料机 TX-BSG Fluctuating Roller Feeder (Roller Screen) ----- 29

TX-LQS – 全封闭环保振动筛 TX-LQS Fully Enclosed Environmental Protection Vibrating Screen ----- 31

TX-XS-轮斗洗砂机 TX-XS- Bucket Wheel Sand Washer ----- 32

2TX – 双水轮洗砂回收脱水一体机 2TX Double Water Wheel Sand Washing, Recovery and Dewatering Integrated Machine -- 33

TY-XC- 脱水回收一体机 TY-XC- Dehydration and Recovery Integrated Machine ----- 35

TXS-系列洗砂回收脱水一体机 TXS Sand Washing Recovery & Dehydration Integrated Machine ----- 37

TX – 洗砂脱水回收一体机 TX Sand Washing, Dewatering and Recovery Integrated Machine ----- 39

TX-LX 系列洗砂回收脱水一体机 TX-LX Series Sand Washing, Recovery and Dewatering Integrated Machine ----- 41

TLL系列立式刮刀离心机 TLL Series Vertical Scraper Centrifuge ----- 43

GSNG-高效深锥浓密机 GSNG High-efficiency Deep Cone Thickener ----- 44

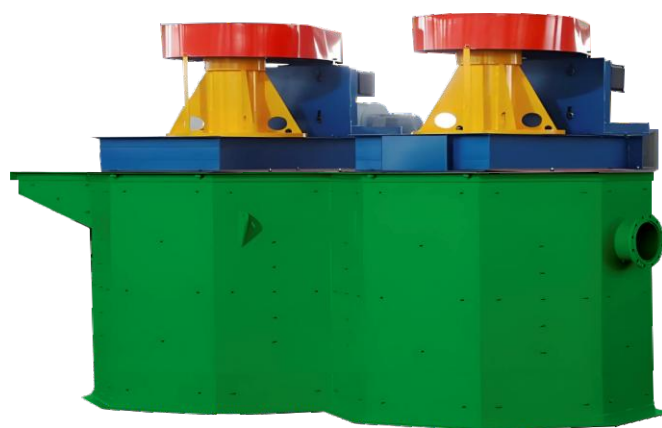
XCF浮选机 XCF Flotation Machine ----- 45

KYF-浮选机 KYF Flotation Machine ----- 47

LL-螺旋溜槽 LL Spiral Chute ----- 49

CX - Stirring scrubbing machine

CX-搅拌式擦洗机



PRODUCT INTRODUCTION

产品介绍

搅拌式擦洗机是一种用于矿物加工的设备，主要用于去除矿物表面的杂质，如泥土、薄膜铁、粘结物等，以提高矿物的纯度和质量。

主要用于矿泥的分散、矿物表面杂质的去除和擦洗，及搅拌制浆。主要用于 $\leq 5\text{mm}$ ，浓度50-60%矿泥的分散、矿物表面杂质的去除。

A stirring scrubbing machine is a piece of equipment used in mineral processing. It is mainly used to remove impurities on the surface of minerals, such as soil, thin-film iron, adhesives, etc., so as to improve the purity and quality of minerals.

It is mainly used for the dispersion of slime, the removal of impurities on the surface of minerals, scrubbing, and the preparation of pulp by stirring. It is mainly used for the dispersion of slime with a particle size of $\leq 5\text{mm}$ and a concentration of 50-60%, and the removal of impurities on the surface of minerals.

WORKING PRINCIPLE

工作原理

矿浆经入料管道进入擦洗机腔体内，在叶轮强大的搅拌作用下，料浆产生剧烈的紊流。矿粒在其中有巨大的动能，并且相互产生剧烈的摩擦和碰撞。包裹在矿粒表面的杂质薄膜由于强度不大，经过摩擦和撞击很容易就被剥离出矿物表面。而矿物表面的胶结物经水浸泡后再经过矿粒相互之间强烈的摩擦、碰撞也会松散、破碎，从而达到粘土质与矿粒的分离。这些薄膜杂质和粘土质破碎、剥落到矿浆中，经过后续脱泥即可分离出矿浆。

The pulp enters the cavity of the scrubbing machine through the feeding pipeline. Under the strong stirring action of the impeller, the pulp generates intense turbulence. The mineral particles have great kinetic energy in it and collide with each other violently. The impurity film wrapped on the surface of the mineral particles has low strength and is easily peeled off from the surface of the minerals after friction and impact. The cementing substances on the surface of the minerals will become loose and disintegrate after being soaked in water and then through the strong friction and collision between the mineral particles, so as to achieve the separation of the clay substances from the mineral particles. These film impurities and clay substances disintegrate and peel off into the pulp, and the pulp can be separated after subsequent desliming.



品质选材
Quality Material Selection



双叶轮
Double leaf wheel



操作简单
Simple operation



结构合理
Reasonable structure

EQUIPMENT FEATURES

主要特点

高效擦洗

High-efficiency
Scrubbing

搅拌式擦洗机通过三层特殊设计的橡胶叶轮对矿物颗粒进行强力擦洗，能有效去除矿物表面的杂质。这种设计可以显著提高擦洗效率，减少杂质残留。

The stirring scrubbing machine conducts powerful scrubbing of mineral particles through three layers of specially designed rubber impellers, which can effectively remove the impurities on the surface of minerals. This design can significantly improve the scrubbing efficiency and reduce the residue of impurities.

耐磨设计

Wear-resistant
Design

槽体通常采用六棱体结构，内衬耐磨橡胶，能够有效延长设备的使用寿命。耐磨橡胶的使用可以减少设备在长期运行中的磨损，降低维护成本。

The tank body usually has a hexagonal prism structure and is lined with wear-resistant rubber, which can effectively extend the service life of the equipment. The use of wear-resistant rubber can reduce the wear of the equipment during long-term operation and lower the maintenance cost.

适用性强

Strong Applicability

搅拌式擦洗机适用于多种矿物的提纯工艺，如石英砂、长石、高岭土等。其广泛的应用范围使其成为矿物加工领域的重要设备。

The stirring scrubbing machine is suitable for the purification processes of various minerals, such as quartz sand, feldspar, kaolin, etc. Its wide application range makes it an important piece of equipment in the field of mineral processing.

可调节性

Adjustability

设备的叶轮转速、水量等参数可以根据矿物的性质和擦洗要求进行调整，以达到最佳的擦洗效果。

Parameters such as the impeller rotation speed and water volume of the equipment can be adjusted according to the properties of the minerals and the scrubbing requirements to achieve the best scrubbing effect.

TECHNICAL PARAMETERS

技术参数

Model 型号	Impeller Diameter (mm) 叶轮直径	Volume (m ³) 容积	Feed Particle Size (mm) 入料粒度	Pulp Density 矿浆浓度	Capacity (t/h) 功率	Weight (kg) 重量
CX1-1	480	1	≤ 5	50-60	11	1350
CX1-2	2x480	2	≤ 5	50-60	11x2	2550
CX2-1	520	2	≤ 5	50-60	30	3280
CX2-2	2x520	4	≤ 5	50-60	30x2	6500
CX4-1	770	4	≤ 5	50-60	55	7300
CX4-2	2x770	8	≤ 5	50-60	55x2	14500

GTX-Roller Scrubber Machine

GTX-滚筒擦洗机



PRODUCT INTRODUCTION

产品介绍

清洗筒体被四个拖轮支撑，电机带动减速机，大小齿轮带动清洗筒体低速旋转。含有泥团和石粉的骨料自进料口给入，进入旋转的滚筒内，被清洗滚筒内安装有一定角度的耐磨橡胶衬板不断带起抛落，自进料端到出料端移动过程中多次循环，并被顺向或逆向的冲洗水冲刷洗涤，清洗干净的骨料经过卸料端筒筛筛分脱水后排出。含有污泥的废水则通过出料或给料端的带孔挡板流出。

The cleaning drum is supported by four idler wheels. The motor drives the reducer, and the large and small gears drive the cleaning drum to rotate at a low speed. The aggregate containing mud lumps and stone powder is fed into the rotating drum through the feed opening. Inside the drum, there are wear-resistant rubber liners installed at a certain angle. The aggregate is continuously lifted and dropped by the liners, moving from the feed end to the discharge end through multiple cycles. During this process, the aggregate is washed by the flushing water flowing in the same or opposite direction. The cleaned aggregate is discharged after being screened and dewatered by the drum screen at the discharge end. The wastewater containing mud and sludge flows out through the perforated baffle at the discharge or feed end.

广泛应用于以下领域 The drum sand washer is widely used in the following fields:



1

建筑行业
Construction Industry

用于清洗建筑用砂、碎石，确保砂石的清洁度，满足建筑标准。
For washing construction sand and gravel to ensure their cleanliness and meet building standards.



3

公路
铁路建设
Highway and
Railway
Construction

用于清洗筑路用砂石，确保材料质量，满足工程标准。
For washing sand and gravel used in road construction to ensure material quality and meet engineering standards.



2

矿山行业
Mining Industry

用于清洗矿石，去除表面泥土和杂质，提高矿石品质。
For cleaning ores to remove surface clay and impurities, enhancing ore quality.



4

水利水电工程
Hydropower
and Water
Conservancy
Projects

用于清洗混凝土骨料，确保材料的清洁度和强度。
For washing concrete aggregates to ensure the cleanliness and strength of the materials.

STRUCTURAL COMPOSITION

结构组成



EQUIPMENT FEATURES

设备特点

高效清洗
High-Efficiency
Cleaning

采用特殊的滚筒结构和高速旋转，能够全面、均匀地清洗物料。
The special drum structure and high-speed rotation enable comprehensive and uniform cleaning of the material.

经济环保
Economical and
Environmental

配备废水回用系统，节约水资源，降低运营成本，减少废水排放。
Equipped with a wastewater recycling system, it saves water resources, reduces operating costs, and minimizes wastewater discharge.

运行稳定
Stable Operation:

物料在滚筒内通过螺旋叶片翻滚和相互摩擦，清洗效果好，工作可靠性高。
The material is tumbled and rubbed by the spiral blades inside the drum, ensuring good cleaning effect and high work reliability.

高度整体性
High Degree of
Integration

除堆料皮带机外，所有系统集成于一个整体框架内，便于存放、运输和安装。
Except for the stockpile belt conveyor, all systems are integrated into a single framework, facilitating storage, transportation, and installation.

维护方便
Easy Maintenance

设备结构简单，维护成本低，便于现场操作和保养。
The equipment has a simple structure, low maintenance cost, and is convenient for on-site operation and maintenance.

TECHNICAL PARAMETERS

技术参数

Specifications and Model Numbers 型号	Barrel Diameter (mm) 筒体直径	Cylinder Length (mm) 筒体长度	Rotational Speed (r/min) 转速	Feed Size (mm) 进料尺寸	Production Capacity (t/h) 生产能力	Capacity (t/h) 功率	Weight (kg) 重量
GTX1530	φ 1.5×3.0	1500×3000	30	≤80	70-140	55	17800
GTX1836	φ 1.8×3.6	1800×3600	25	≤100	120-200	75	24700
GTX2145	φ 2.1×4.5	2100×4500	21	≤120	180-250	110	32618
GTX2450	φ 2.4×5.0	2400×5000	18	≤150	230-300	160	48700
GTX2760	φ 2.7×6.0	2700×6000	16	≤200	280-420	220	67200
GTX3075	φ 3.0×7.5	3000×7500	15	≤250	400-500	2×185	99860

FC/FG-Spiral Classifiers

FC/FG–螺旋分级机



PRODUCT INTRODUCTION

产品介绍

螺旋分级机主要用于选矿、砂石厂磨矿回路中的预先分级、检查分级，以及洗砂作业中的脱泥、脱水等作业。该机根据螺旋数量可分为单螺旋和双螺旋两种，根据螺旋叶片浸入溢流面深浅程度可分为高堰式和沉没式两种。高堰式螺旋分级机用于溢流粒度为0. 83mm~0. 15mm的矿石分级，沉没式螺旋分级机用于溢流粒度为0. 15mm~0. 07mm的矿石分级。

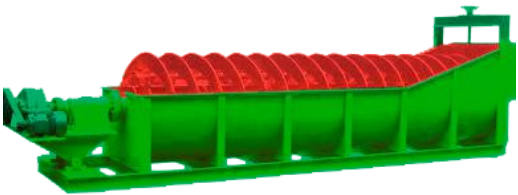
Spiral classifiers are mainly used for pre-grading, check grading in the grinding circuit of concentrators and sand & gravel plants, as well as de-sliming and dewatering operations in sand washing. Depending on the number of spirals, they can be divided into single-spiral and double-spiral types. Based on the depth of the spiral blades immersed in the overflow surface, they can be categorized into high weir and submerged types. High weir spiral classifiers are used for grading ore with overflow particle sizes of 0.83mm to 0.15mm, while submerged spiral classifiers are used for grading ore with overflow particle sizes of 0.15mm to 0.07mm.

WORKING PRINCIPLE

工作原理

螺旋分级机是借助于固体粒大小不同，比重不同，因而在液体中的沉降速度不同的原理，细矿粒浮游在水中成溢流出，粗矿粒沉于槽底。由螺旋推向上部排出，来进行机械分级的一种分级设备，能把磨机内磨出的料粉级于过滤，然后把粗料利用螺旋片旋片旋入磨机进料口，把过滤出的细料从溢流管子排出。该机底座采用槽钢，机体采用钢板焊接而成。螺旋轴的入水头、轴头、采用耐磨材质，耐磨耐用，提升装置分电动和手动两种。

The spiral classifier relies on the principle that solid particles of different sizes and specific gravities have different settling velocities in a liquid. Fine mineral particles float in the water and overflow, while coarse mineral particles settle at the bottom of the tank. The spiral pushes the coarse particles upward and discharges them, while the fine particles are discharged through the overflow pipe. The base of the machine is made of channel steel, and the body is welded from steel plates. The spiral shaft's water inlet head, shaft head, and wear-resistant materials are used for durability. The lifting device is available in electric and manual types.



TECHNICAL PARAMETERS

技术参数

Type	Model Specifi Cations	Screw Diameter (mm)	Water Tank Length (mm)	Spiral Speed (r/min)	Throughput(t/d) 生产能力		Water Tank (slope°)	Power(kw) 功率		External Dimensions (mm)	Weight (≤t)
					Returning Sand 返砂	Overf Low 溢流		Transmission Electric Machinery 传动电机	Promote Electric Machinery 提升电机		
High weir spiral classifier 高堰式螺旋分级机	Fg500	φ500	4500	12	192	32	18	1.1		6409×712×1599	1.9
	FG750	φ750	5500	7.80	256~564	65	14-18.5	3.0		7100×990×1450	2.7
	FG-1000	φ1000	6490	5.0~7.0	650~1080	110	14-18.5	7.5		8084×1424×2503	4.43
	FG-1200	φ1200	6600	5.0~7.0	1170~1600	155	14-18.5	11	0.4	8195×1574×2747	8.7
	FG-1500	φ1500	8230	2.5~6.0	1140~2740	235	14-18.5	11	0.4	9818×1976×3703	12.5
	FG-2000	φ2000	8400	3.0~3.5	3240~5400	400	14-18.5	11	2.8	10200×2530×4486	20.5
	FG-2400	φ2400	9200	2.5~4.0	4650~7450	580	14-18.5	11-15	2.8	11000×2930×5690	25.5
	2FG-1200	φ1200	6600	5.0~7.0	2340~3200	310	14-18.5	11×2	0.4×2	8686×2802×3101	14
	2FG-1500	φ1500	8300	4.0~6.0	3660~5480	470	14-18.5	11×2	0.4×2	9818×3506×3703	21.1
	2FG-2000	φ2000	8400	3.0~5.5	6480~10800	800	14-18.5	11×2	2.8×2	10200×4610×4486	36.5
Submer ged spiral classifier 沉没式螺旋分级机	FC-1000	φ1000	7600	5.0~7.0	675~1080	85	14-18.5	7.5	0.4	9190×1506×3101	6.2
	FC-1200	φ1200	8400	5.0~7.0	1170~1630	120	14-18.5	11	0.4	9384×1846×3277	11
	FC-1500	φ1500	10480	2.5~6.0	1140~2740	185	14-18.5	11	0.8	12068×1976×4305	16.8
	FC-2000	φ2000	12900	3.0~3.5	3240~5940	320	14-18.5	11-15	2.8	14700×2530×5343	28.5
	FC-2400	φ2400	14200	2.5~4.0	4650~7450	455	14-18.5	11-18.5	4.0	13000×2930×6885	41
	2FC-1200	φ1200	8400	5.0~8.0	1770~2800	240	14-18.5	11×2	0.4×2	10000×3700×4190	17.6
	2FC-1500	φ1500	10500	2.5~6.0	2800~5480	370	14-18.5	11×2	4.4	10588×3506×4035	30.7
	2FC-2000	φ2000	12900	3.0~5.5	6480~11800	640	14-18.5	15×2	2.8×2	14700×4610×5343	48.7
	2FC-2400	φ2400	14200	2.5~4.0	9300~14900	910	14-18.5	18.5×2	4×2	13000×5430×6885	67.9
	2FC-3000	φ3000	14300	2.0~3.2	14600~23400	1410	14-18.5	22×2	4×2	16200×6630×8680	84

TX-LX-Spiral Sand Washers

TX-LX-螺旋洗砂机



PRODUCT INTRODUCTION

产品介绍

螺旋洗砂机广泛应用于冶金、建材、水电等行业的洗选、分级、除杂等作业，用于细粒度和粗粒度物料的洗选作业。对建筑用砂、筑路用砂尤为适宜。螺旋洗砂机功率消耗小、洗净度高。密封结构好、全封闭传动装置、可调式堰板，确保了产品高效、耐用、清洗、脱水效果好、细颗粒产品保持稳定等特点。

Spiral sand washers are widely used in the washing, grading, and impurity removal operations in metallurgy, building materials, and hydropower industries. They are particularly suitable for fine and coarse particle washing operations. The spiral sand washer has low power consumption and high cleaning efficiency. The well-sealed structure, fully enclosed transmission device, and adjustable weir plate ensure the product's high efficiency, durability, good cleaning and dewatering effects, and stable fine particle product characteristics.

PRODUCT FEATURES

产品特点

- TX-LX-螺旋砂石洗选机结构合理、维修便利、处理量大、洗净度高；
- 进料端采用特殊逆流结构设计，保证进料布料均匀不絮料；
- 溢流口特殊设计工艺，减少细砂流失；
- 新颖的密封结构、进料端独特加油充分保证了设备运行的稳定；
- 螺旋叶片采用聚氨酯全包裹经久耐用，经久耐用。



- The TX-LX-spiral sand and gravel washer has a rational structure, convenient maintenance, large processing capacity, and high cleaning efficiency.
- The feed end adopts a special counter-current structure design to ensure uniform feeding and prevent material agglomeration.
- The overflow outlet has a special design to reduce fine sand loss.
- The novel sealing structure and unique lubrication at the feed end fully ensure the stable operation of the equipment.
- The spiral blades are fully wrapped with polyurethane for durability.

TECHNICAL PARAMETERS (LIGHT DUTY)

技术参数(轻型)

Model 类型	Spiral Diameter (mm) 螺旋直径	Spiral Length (mm) 螺旋长度	Feed Particle Size(mm) 入料粒度	Processing Capacity (t/h) 处理能力	Power (kw) 功率	Water Consumption (t/h) 耗水量
TX-LX-1260	1200	6000	≤10	20-50	5.5-7.5	20-70
TX-LX-1270	1200	7000	≤10	30-55	7.5-11	20-90
TX-LX-1570	1500	7000	≤10	60-100	11-15	70-150
TX-LX-1580	1500	8000	≤10	60-105	11-18.5	70-150
TX-LX-1880	1800	8000	≤10	80-150	30	100-180
TX-LX-2090	2000	9000	≤10	150-220	37	150-245
TX-2LX-1270	1200	7000	≤10	120-150	2x7.5	120-200
TX-2LX-1570	1500	7000	≤10	150-200	2x11	120-300
TX-2LX-1580	1500	8000	≤10	180-250	2x15	150-400
TX-2LX-1880	1800	8000	≤10	200-350	2x30	200-450

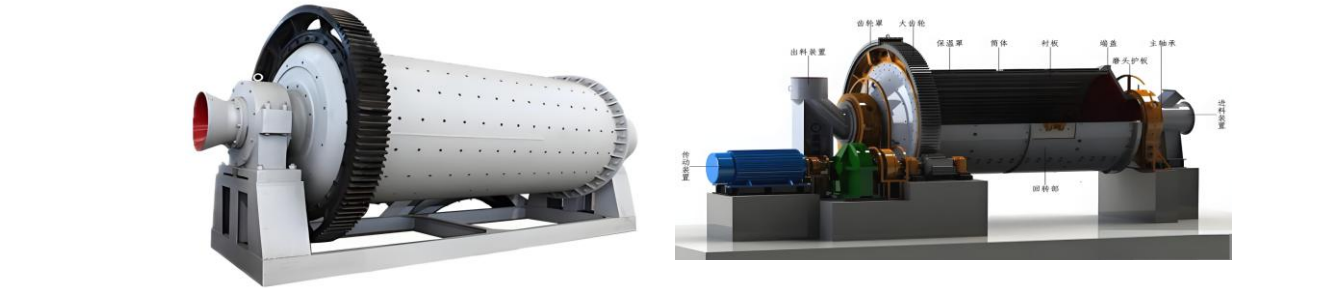
TECHNICAL PARAMETERS (HEAVY DUTY)

技术参数(重型)

Model 类型	Spiral Diameter (mm) 螺旋直径	Spiral Length (mm) 螺旋长度	Feed Particle Size(mm) 入料粒度	Processing Capacity (t/h) 处理能力	Power (kw) 功率	Water Consumption (t/h) 耗水量
TX-LX-915	915	7585	≤10	80-100	11	10-80
TX-2LX-915	915	7585	≤10	150-200	2×11	20-160
TX-LX-1150	1150	9782	≤10	135-175	15	20-150
TX-2LX-1150	1150	9782	≤10	200-350	2×15	40-300

MB Rod Mills

MB棒磨机



PRODUCT INTRODUCTION

产品介绍

棒磨机由电机通过减速机及周边大齿轮减速传动或由低速同步电机直接通过周边大齿轮减速传动，驱动筒体回转。筒体内装有适当的磨矿介质-钢棒。磨矿介质在离心力和摩擦力的作用下，被提升到一定高度，呈抛落或泄落状态落下。被磨制的物料由给矿口连续的进入筒体内部，被运动的磨矿介质所粉碎，并通过溢流和连续给矿的力量将产品排出机外，以进行下一段工序作业。

当要求产品粒度80%小于2.0至0.5毫米时,一般采用棒磨机,棒磨机的产品粒度,一般最大不超过4.7毫米,最小不小于0.4毫米,棒磨机的给矿粒度为80%小于20毫米至4毫米,给矿粒度最大也可达50毫米。

The rod mill is driven by a motor through a reducer and large gear ring, or directly by a low-speed synchronous motor through a large gear ring. The grinding media - steel rods are installed inside the cylinder. The grinding media are lifted to a certain height and fall in a state of free fall or cascading. The material to be ground enters the cylinder continuously from the feed opening and is crushed by the moving grinding media. The product is then discharged from the mill through overflow and continuous feeding for the next process.

When the required product particle size is 80% less than 2.0% to 0.5 mm, a rod mill is generally used. The maximum product particle size of a rod mill is usually no more than 4.7 mm, and the minimum is not less than 0.4 mm. The feed particle size for a rod mill is 80% less than 20 mm to 4 mm, with the maximum feed particle size reaching up to 50 mm.

WORKING PRINCIPLE

工作原理

棒磨机是异步电动机通过减速器与小齿轮联接，直接带动周边大齿轮减速转动，驱动回转部旋转，筒体内部装有适当的磨矿介质——钢棒，磨矿介质在离心力和摩擦力的作用下，欲磨制的物料由给料部连续地进入筒体内部吗，被运动着的磨矿介质粉碎，并通过溢流和连续给料的力量将产品排出机外，以进行下一段工序处理。

The rod mill is driven by an asynchronous motor through a reducer connected to a small gear, which directly drives the large gear ring to rotate, causing the rotary part to rotate. The grinding media - steel rods are installed inside the cylinder. The material to be ground enters the cylinder continuously from the feed opening and is crushed by the moving grinding media. The product is then discharged from the mill through overflow and continuous feeding for the next process.

TECHNICAL PARAMETERS

技术参数

Model 型 号	Discharge Particle Size (r/min) 筒体转速	Effective Volume (m³) 有效容积	Discharge Particle Size (mm) 出料粒径	Capacity (t/h) 产能	Water Tank (slope°) 装球量	Motor 电动机		Weight (±t) 重量
						Model 型 号	Power(kw) 功率	
Mb0924	35.4	1.2	0.3-0.074	2.9-1.35	3.1	Y225M-8	22	5.9
MB1224	27.5	2.2	0.3-0.074	3.2-1.8	5.8	Y250M-8	30	13.1
MB1530	24.9	4.5	0.3-0.074	6.0-2.8	11.5	JR125-8	95	19.3
MB1830	23.8	6.8	0.3-0.074	8.6-4.6	13.2	JR127-8	130	34.5
MB2130	23.6	9.2	0.3-0.074	12.6-5.8	23.5	JR136-8	180	43.0
MB2136	23.6	11.0	0.3-0.074	15.1-7.0	28.2	JR127-8	210	45.0
MB2430	22.3	12.2	0.3-0.074	16.6-7.9	33.5	JR139-8	280	46.5
MB2736	20.6	18.4	0.3-0.074	25-11.5	47.0	JR158-8	380	79.0
MB3245	18.5	32.8	0.3-0.074	44-21.0	50.0	TDM630	630	110.0
Mb3645	17.3	40.8	0.3-0.074	72-33.0	110.0	TDM1250	1250	156.8

Fx High-Efficiency Hydrocyclone

FX–高效水力旋流器



WORKING PRINCIPLE

工作原理

洗煤用旋流器主要利用离心力场实现煤泥和水的分离或分级，可以有效实现煤泥的分级、脱泥和浓缩。

The hydrocyclone for coal washing mainly utilizes the centrifugal force field to achieve separation or grading of coal slime and water, effectively realizing the grading, de-sliming, and concentration of coal slime.

CYCLONE MATERIAL

旋流器材质

氧化铝陶瓷 Alumina Ceramic	聚氨酯 Polyurethane	橡胶 Rubber
适合洗煤过程中高磨损和腐蚀的工况。 Suitable for high wear and corrosion conditions in coal washing processes.	耐磨性强，使用寿命长，适合处理细粒煤泥。 Strong wear resistance and long service life, suitable for fine coal slime treatment.	成本较低，耐磨性适中，适合中等磨损工况。 Lower cost, moderate wear resistance, suitable for moderate wear conditions.

TECHNICAL FEATURES

技术特点

高效分离 Efficient Separation	结构简单 Simple Structure	适应性强 Strong Adaptability
在短时间内实现煤泥的分级和脱泥，提高洗煤效率。 Achieves grading and de-sliming of coal slime in a short time, improving coal washing efficiency.	无运动部件，维护成本低，运行稳定。 No moving parts, low maintenance costs, and stable operation.	可根据煤质和工艺要求调整结构参数。 The structural parameters can be adjusted according to coal quality and process requirements.

TECHNICAL PARAMETERS

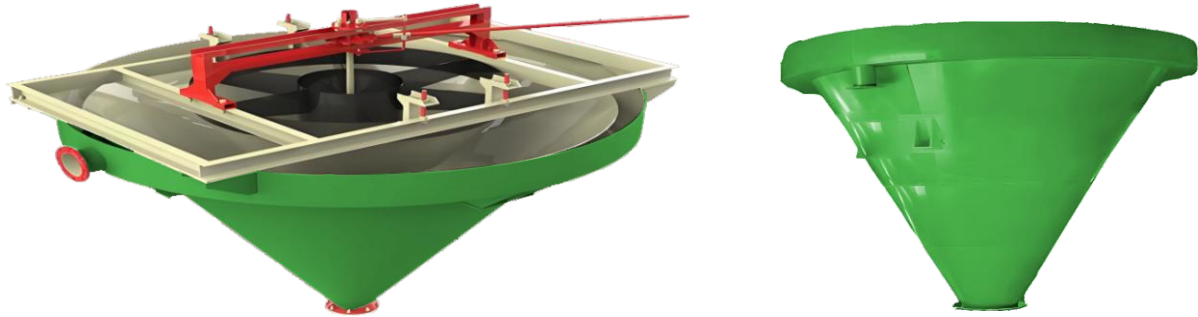
技术参数

Model 型 号	Inner diameter (mm) 内径	Overflow Pipe Diameter (mm) 溢流管径	Underflow outlet diameter (mm) 底流口径	Maximum Feeding Particle Size (mm) 最大给料粒度	Feed Pressure (mpa) 入料压力	Capacity (m³/h) 处理能力	Separate Particle Size (μm) 分离粒度	Dimensions(mm) 外形尺寸			Unit weight (kg) 单机重量
								long 长	wide 宽	tall 高	
Fx850	850	280-380	130-220	22	0.04-0.15	500-900	74-350	1600	1300	3300	2600
FX710	710	220-300	100-180	16	0.04-0.15	400-550	74-250	1255	1185	3040	1250
FX660	660	200-280	90-160	16	0.04-0.15	260-450	74-220	1215	1005	2520-2660	1060-1200
FX610	610	160-220	70-130	12	0.04-0.15	200-280	74-200	1160	g35	2390	910
FX500	500	140-200	60-120	10	0.04-0.2	140-220	74-200	2060	830	1610-2490	480-670
FX400	400	80-150	40-90	8	0.06-0.2	100-170	74-150	825	770	1770	320
FX350	350	90-135	30-85	6	0.06-0.2	70-160	50-150	820	580	1410-2640	160-380
FX300	300	70-120	25-60	5	0.06-0.2	45-90	50-150	615	520	1400-2020	105-180
FX250	250	60-90	20-50	3	0.06-0.3	40-80	40-100	575	540	1160-1840	70-150
FX200	200	50-85	25-40	2	0.06-0.3	25-40	40-100	355	350	1110	35-65
FX150	150	40-50	12-35	1.5	0.08-0.3	14-35	20-74	315	275	735-1815	30-55
FX125	125	25-40	8-18	1	0.1-0.3	8-20	25-50	265	250	620-1220	10-45
FX100	100	20-40	8-25	1	0.1-0.3	8-20	20-50	260	215	415-1070	7-40
Fx75	75	15-20	5-14	0.6	0.1-0.4	3-7	10-40	220	190	795-825	5-30



TND-De-sliming Hoppers

TND-脱泥斗



PRODUCT INTRODUCTION

产品介绍

脱泥斗是一种简单、高效的分级和脱泥设备，广泛应用于矿山、建筑等领域。

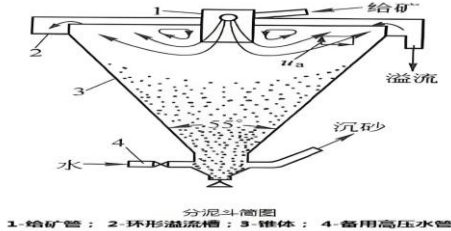
De-sliming hoppers are simple and efficient grading and de-sliming equipment, widely used in mining, construction, and other fields.

WORKING PRINCIPLE

工作原理

基于重力沉降和离心力分离，能够有效分离矿浆中的固体颗粒和细颗粒。分级效果：给矿粒度一般小于2mm，分级粒度通常为75 μm或更细。

Based on gravity sedimentation and centrifugal separation, it can effectively separate solid particles and fine particles in the pulp. Grading effect: Feed particle size is generally less than 2 mm, and the grading particle size is usually 75 μm or finer.



WORKING CHARACTERISTICS

工作特点

脱泥斗具有结构简单、无动力消耗、占地面积小等特点，同时在环保和经济性方面表现出色。

De-sliming hoppers have simple structure, no power consumption, small footprint, and perform well in environmental protection and economy.

TECHNICAL PARAMETERS

技术参数

Model 型号	Settlement area (m²) 沉降面积	volume (m³) 容积	Discharge pipe diameter (mm) 排矿管径	Discharge concentration (%) 排矿浓度	Feed particle size (mm) 给矿粒度	Mine management (mm) 受矿管	Desliming efficiency (%) 脱泥效率	weight (≤t) 重量
TND-1000	0.75	0.27	φ25	40-60	<2.0	φ120	33-45	500
TND-1500	2	0.83	φ40	40-60	<2.0	φ150	33-45	980
TND-2000	3	2.27	φ50	40-60	<2.0	φ150	33-45	1483
TND-2500	4.9	4	φ60	40-60	<2.0	φ150	33-45	1850
TND-3000	7	7	φ70	40-60	<2.0	φ150	33-45	2100

GSF-Hydrocyclones

GSF-水力分级机



PRODUCT INTRODUCTION

产品介绍

水力分级机是一种利用水流分选物料的设备，广泛应用于矿物分选和矿石加工领域，尤其适用于石英砂等细粒矿物的分级。

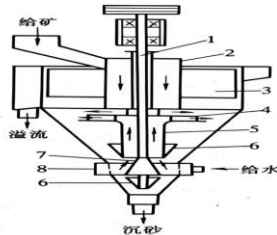
Hydrocyclones are devices that use water flow to classify materials and are widely used in the mineral separation and ore processing fields, especially for the grading of fine-grained minerals such as quartz sand.

WORKING PRINCIPLE

工作原理

基于矿物颗粒在水中的沉降速度差异，通过控制水流速度和设备结构，实现不同粒度物料的分离。

Based on the difference in the settling velocity of mineral particles in water, the separation of different particle size materials is achieved by controlling the water flow velocity and equipment structure.



胡基圆锥水力分级机结构示意图
1—带套的转轴；2—给矿筒；3—溢流管；4—分配盘；5—溢流管；6—叶片；7—溢流管；8—水套

EQUIPMENT FEATURES

设备特点

构造简单 Simple Construction	高效分级 Efficient Grading	适应性强 Strong Adaptability	环保节能 Energy Saving and Environmental Protection
水力分级机结构简单，不需要动力装置，维护成本低。 Hydrocyclones have a simple structure, no power device, and low maintenance costs.	通过筛板和多室结构，实现从粗到细的多级分级，分级效果较好。 Through the screen plate and multi-chamber structure, multi-stage grading from coarse to fine is realized, with good grading effect.	设备可根据选厂处理能力的不同，制成不同规格，适应多种应用场景。 The equipment can be made into different specifications according to the processing capacity of the concentrator, adapting to various application scenarios.	水力分级机在运行过程中不消耗额外动力，且可实现物料的高效分级，减少后续设备的负荷。 Hydrocyclones do not consume additional power during operation and can achieve efficient grading of materials, reducing the load on subsequent equipment.

TECHNICAL PARAMETERS

技术参数

Model 型号	Feed Particle Size (mm) 入料粒度	Grading Range (mm) 分级范围	Processing Capacity (t/h) 处理量	Water Consumption (m³/h) 耗水量	Weight (≤t) 重量
GSF1200	< 5	0.4-0.04	3-7	10-15	820
GSF1500	< 5	0.4-0.04	7-10	15-20	1200
GSF1800	< 5	0.4-0.04	10-15	20-30	1770
GSF2100	< 5	0.4-0.04	15-20	30-40	2540
GSF2400	< 5	0.4-0.04	20-25	40-60	3260
GSF3000	< 5	0.4-0.04	25-40	50-80	4160

TX-GDZS-Series High-Frequency Overlapping Vibrating Fine Screens

TX-GDZS-系列高频叠层振动细筛

PRODUCT INTRODUCTION

产品介绍

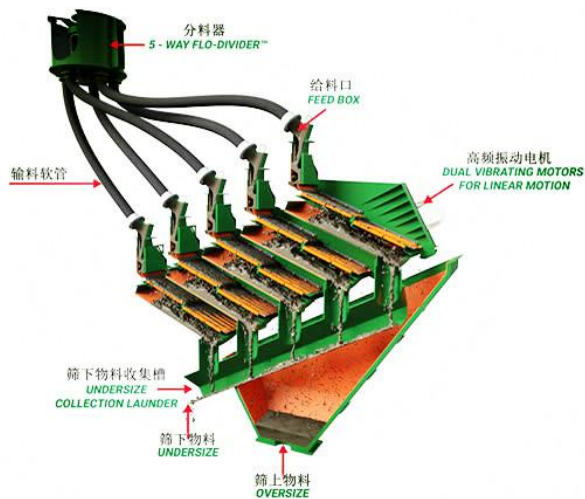
叠层筛选机占地面积较小，但是却拥有超高的容量，采用高质量、高开孔率防堵耐磨聚氨酯筛网，而且又组成了1-5层的独立筛框进行多路并联，能够很好的对细粒和微细粒物料进行有效的筛选，是一款专门针对潮湿细颗粒物料高效筛选的筛选机产品。多应用于铝渣、矾土、铬矿、煤炭、铜、长石、铁矿石、高岭土、铅锌矿等物料。

The overlapping vibrating fine screen occupies a small area but has an ultra-high capacity. It uses high-quality, high open-hole rate, anti-clogging, and wear-resistant polyurethane screen meshes. It consists of 1-5 layers of independent screen frames connected in parallel, effectively screening fine and ultra-fine particles. It is a special screening machine for efficiently screening moist fine-grained materials and is widely used for materials such as aluminum dross, bauxite, chromite, coal, copper, feldspar, iron ore, kaolin, lead-zinc ore, etc.



WORKING STRUCTURE DIAGRAM AND PRINCIPLE

工作结构图及原理



叠层高频振动细筛是由两台运动方向相反的电振动器带动筛框做直线运动，两台电振动器作用到筛框上的合力通过筛框的重心。因此筛框上各点的激振力大小一致。

The overlapping high-frequency vibrating fine screen is driven by two electric vibrators moving in opposite directions, causing the screen frame to move in a straight line. The combined force of the two electric vibrators on the screen frame passes through the center of gravity of the screen frame. Therefore, the excitation force at each point on the screen frame is consistent.

PRODUCT ADVANTAGES

产品优势

01

设备占地面积小。

The equipment occupies a small area.

02

筛框采用橡胶弹簧悬挂支撑，噪音低，功耗小，设备动负荷小。

The screen frame is supported by rubber springs, resulting in low noise, low power consumption, and small dynamic load on the equipment.

03

高质量、高开孔率、防堵耐磨柔性聚氨酯筛网，筛网使用寿命增加。

High-quality, high open-hole rate, anti-clogging, and wear-resistant flexible polyurethane screen meshes increase the screen mesh's service life.

04

筛箱整体做热处理消除焊接应力，避免筛箱二次变形。

The screen box is heat-treated as a whole to eliminate welding stress and prevent secondary deformation of the screen box.

05

采用变频控制，有效控制筛选效率。

Variable frequency control is used to effectively control screening efficiency.

06

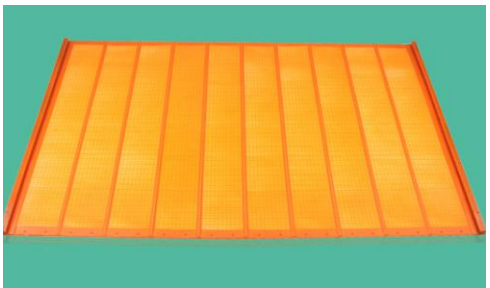
采用双振动器配置，能耗低，效率高。

Dual vibrator configuration, low energy consumption, and high efficiency.

07

分料筒及过浆部分内衬橡胶或聚氨酯，增加使用寿命。

The feed cylinder and overflow part are lined with rubber or polyurethane to increase service life.



TECHNICAL PARAMETERS

技术参数

Model 型号	Number Of Layers 层数	Vibration Frequency (mm) 振动频率	Grading Granularity 分级粒度	Screening Area 筛分面积	Processing Capacity (t/h) 处理能力	Power (kw) 功率	Mineral Concentration 给矿浓度
TX-GDZS-1014	3	1405-1500	0.045-1.2	4.2	25-65	3.6	25-50% 具体根据物料 性质确定 25-50% depending on material properties
TX-GDZS-1014	4	1405-1500	0.045-1.2	5.6	30-75	3.6	
TX-GDZS-1014	5	1405-1500	0.045-1.2	7.0	50-100	4.4	
TX-GDZS-1021	2	1405-1500	0.045-1.2	4.2	15-35	3.6	
TX-GDZS-1021	3	1405-1500	0.045-1.2	6.3	30-65	3.6	
TX-GDZS-1021	4	1405-1500	0.045-1.2	8.4	40-80	3.6	
TX-GDZS-1021	5	1405-1500	0.045-1.2	10.5	50-95	4.4	
TX-GDZS-1217	2	1405-1500	0.045-1.2	4.03	20-35	3.6	
TX-GDZS-1217	3	1405-1500	0.045-1.2	6.05	40-65	3.6	
TX-GDZS-1217	4	1405-1500	0.045-1.2	8.06	50-75	3.6	
TX-GDZS-1217	5	1405-1500	0.045-1.2	10.08	55-100	4.4	
TX-GDZS-1224	2	1405-1500	0.045-1.2	6.05	22-55	3.6	
TX-GDZS-1224	3	1405-1500	0.045-1.2	9.07	34-70	4.4	
TX-GDZS-1224	4	1405-1500	0.045-1.2	12.1	46-85	4.4	
TX-GDZS-1224	5	1405-1500	0.045-1.2	15.12	58-100	7.0	

备注：振动频率1405次/min为国产电机，1500次/min为进口电机。

Note: The vibration frequency of 1405 times/min is for domestic electric vibrators, and 1500 times/min is for imported electric vibrators.

FMVS-Composite Electromagnetic High-Frequency Screens

FMVS-复合型电磁高频筛

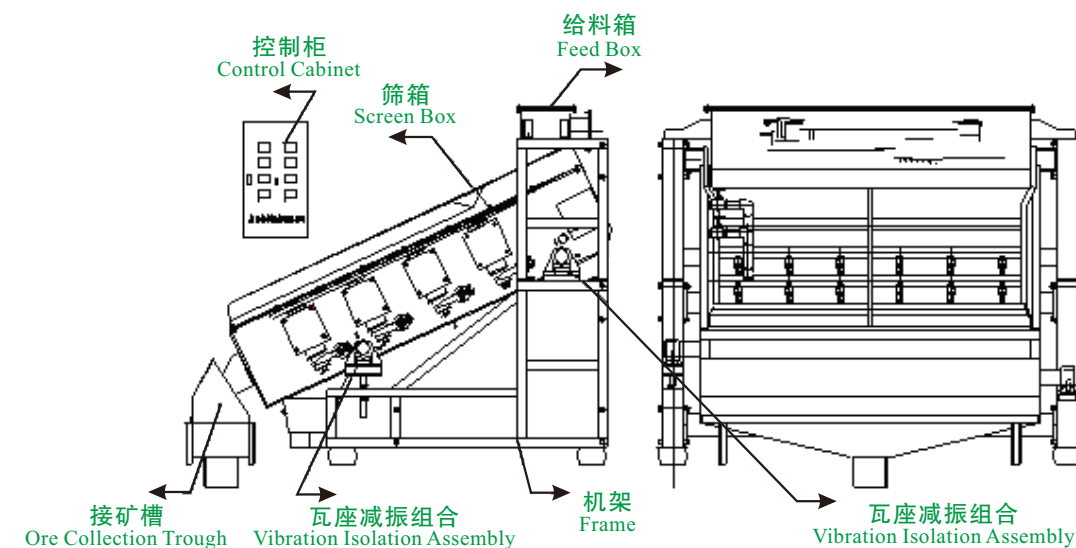


PRODUCT INTRODUCTION

产品介绍

磁高频筛是一种利用电磁振动原理进行物料筛分的设备，广泛应用于矿山、建材、化工、冶金等行业。

Electromagnetic high-frequency screens are equipment that use electromagnetic vibration principles for material screening and are widely used in mining, building materials, chemical, metallurgy, and other industries.



WORKING STRUCTURE DIAGRAM AND PRINCIPLE

工作结构图及原理

电磁振动的产生：电磁高频筛的激振源是电磁线圈。当电磁线圈通入交变电流时，会产生交变磁场，磁场与筛机上的衔铁相互作用，使得筛箱产生高频振动。这种振动频率通常较高，一般在1500-3000次/分钟之间。

物料的分散与筛分：待筛分的物料从给料口进入筛箱后，在高频振动的作用下，物料迅速分散并均匀分布在筛面上。由于振动频率高，物料颗粒与筛网的接触时间极短，且颗粒间的相互作用力也被削弱，大

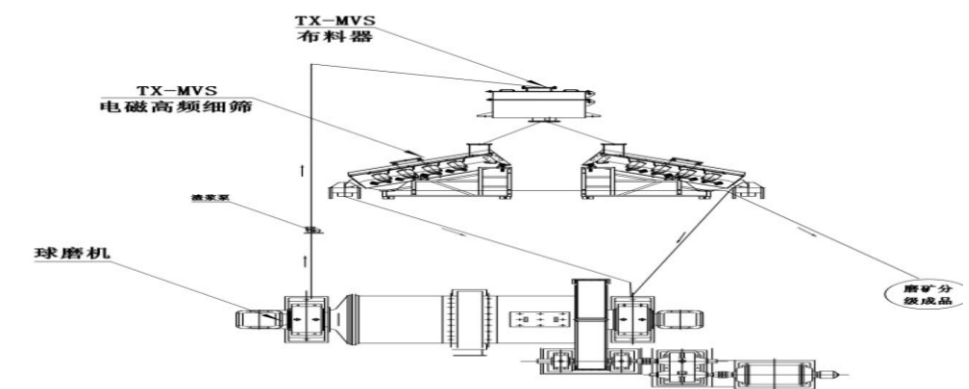
颗粒物料在筛面上不断跳动、翻滚，难以停留在筛网上，而小颗粒物料则能够快速通过筛孔，实现筛分过程。

筛上物与筛下物的排出：经过筛分后，不能通过筛孔的大颗粒物料成为筛上物，沿筛面运动至筛箱末端的出料口排出；而通过筛孔的小颗粒物料则成为筛下物，从筛箱底部的出料口收集。

Generation of electromagnetic vibration: The excitation source of the electromagnetic high-frequency screen is the electromagnetic coil. When an alternating current is passed through the electromagnetic coil, an alternating magnetic field is generated. The magnetic field interacts with the armature on the screen machine, causing the screen box to vibrate at a high frequency. This vibration frequency is usually high, generally between 1500-3000 times per minute.

Dispersal and screening of material: The material to be screened enters the screen box from the feed opening and is rapidly dispersed and evenly distributed on the screen surface under the action of high-frequency vibration. Due to the high vibration frequency, the contact time between the material particles and the screen mesh is extremely short, and the interaction force between the particles is also weakened. Large particles jump and roll continuously on the screen surface and are unlikely to stay on the screen mesh, while small particles can quickly pass through the screen holes to achieve the screening process.

Discharge of oversize and undersize material: After screening, the material that cannot pass through the screen holes becomes the oversize material and moves along the screen surface to the discharge opening at the end of the screen box for discharge. The undersize material that passes through the screen holes is collected from the discharge opening at the bottom of the screen box.



PRODUCT ADVANTAGES

产品优势

筛分效率高 High screening efficiency

高频振动使物料在筛面上快速分散，筛分效率高。
High-frequency vibration allows the material to disperse quickly on the screen surface, resulting in high screening efficiency.

筛网自清洁能力强 Strong self-cleaning ability of the screen mesh

筛面高频振动，不易堵塞筛孔。
The high-frequency vibration of the screen surface prevents screen holes from clogging easily.

节能 Energy-saving

功耗小，每个电磁激振器的有功功率仅150瓦。
Low power consumption, with each electromagnetic vibrator having an active power of only 150 watts.

环保 Environmental protection

筛箱不动，容易密封，可实现封闭作业，减少环境污染。
The screen box is stationary, making it easy to seal and enabling closed-operation to reduce environmental pollution.

维护方便 Easy maintenance

结构简单，维修方便。
Simple structure and convenient maintenance.

SKT Jigging Machine

SKT跳汰机

SKT JIGGING MACHINE

产品介绍

SKT系列跳汰机是一种高效节能的现代化跳汰机，广泛应用于选煤厂，主要用于分选原煤或中间产品，可将原煤分为精煤、中煤和矸石三个产品。该系列跳汰机采用数控技术，通过压缩空气使水形成垂直脉动水流，实现物料的分层和分离。SKT跳汰机具有处理量大、分选效果好、工艺流程简单、自动化程度高等特点，适用于不同煤质和规模的选煤厂。

The SKT series jigging machine is a modern and energy-efficient jigging machine widely used in coal preparation plants. It is mainly used to sort raw coal or intermediate products and can divide raw coal into three products: coking coal, middlings, and gangue. This series of jigging machines uses numerical control technology to form vertical pulsating water flow through compressed air, realizing the stratification and separation of materials. The SKT jigging machine has the characteristics of large processing capacity, good sorting effect, simple process flow, and high degree of automation. It is suitable for coal preparation plants of different coal qualities and scales.



WORKING PRINCIPLE

工作原理

脉动水流的形成

Formation of pulsating water flow

- 风阀按一定频率将压缩空气压入并排出筛下空气室，使机体内的介质（水）形成脉动运动。
- 原煤在脉动水流作用下按密度分层：矸石分布在底层，中煤分布在中间，精煤分布在上层。
- The wind valve presses and discharges compressed air into the screen air chamber at a certain frequency, causing the medium (water) inside the machine to pulsate.
- Stratification of raw coal according to density in pulsating water flow: gangue is distributed at the bottom layer, middlings in the middle layer, and coking coal in the upper layer.

分选过程

Sorting process

- 原煤从入料端给入机体第一段，在脉动水流作用下，矸石通过排矸装置排出。
- 中煤、次精煤和精煤进入第二段（中煤段），中煤通过排料装置排出，次精煤和精煤进入第三段。
- 次精煤通过排料装置排出，精煤从第三段末端溢出。
- Raw coal is fed into the first section of the machine from the feed end. Under the action of pulsating water flow, gangue is discharged through the gangue discharge device.
- Middlings, secondary coking coal, and coking coal enter the second section (middlings section), where middlings are discharged through the discharge device, and secondary coking coal and coking coal enter the third section.
- Secondary coking coal is discharged through the discharge device, and coking coal overflows from the end of the third section.

自动排料系统

Automatic discharge system

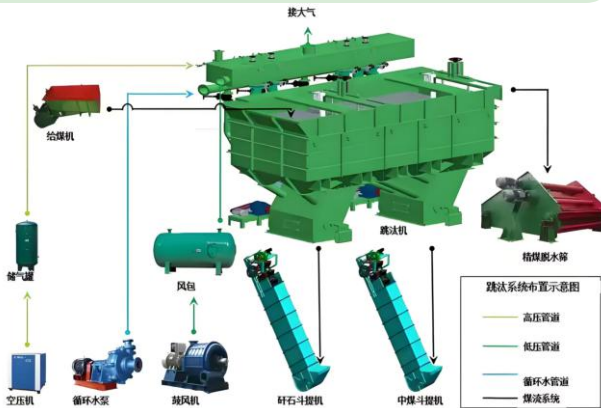
- 采用高性能变频器控制排料轮转速，实现连续、稳定的排料。
- 排料轮设在机体下部，防止卡矸和漏煤。
- A high-performance frequency converter controls the speed of the discharge wheel to achieve continuous and stable discharge.
- The discharge wheel is located at the lower part of the machine to prevent gangue jamming and coal leakage.

APPLICABLE TO

SKT跳汰机适用

烟煤、无烟煤、原煤等，可分选0-100mm不分级煤、0-13mm末煤或13-100mm块煤。SKT系列跳汰机凭借其高效、节能、自动化程度高的特点，已成为国内外选煤厂的首选设备之一。

Bituminous coal, anthracite, raw coal, etc., can sort 0-100mm ungraded coal, 0-13mm fines coal or 13-100mm lump coal. The SKT series jigging machine has become one of the preferred devices for coal preparation plants at home and abroad with its high efficiency, energy saving, and high degree of automation.



TECHNICAL FEATURES

技术特点

01

高效分选

处理能力大，分选精度高。

High-efficiency sorting: large processing capacity and high sorting accuracy.

02

自动化程度高

采用数控技术和智能控制系统，操作简便，维护量小。

High degree of automation: using numerical control technology and intelligent control system, it is easy to operate and has little maintenance.

03

结构优化

多室共用风阀，漏斗形组合式机体，便于运输和安装。

Optimized structure: multi-room shared wind valve, funnel-shaped combined machine body, easy to transport and install.

04

节能降耗

功耗降低70%，故障率减少80%。

Energy-saving and consumption reduction: power consumption is reduced by 70%, and the failure rate is reduced by 80%.

05

适应性强

适用于多种煤质和工艺要求，可满足不同选煤厂的需求。

Strong adaptability: suitable for various coal qualities and process requirements, and can meet the needs of different coal preparation plants.

TECHNICAL PARAMETERS

技术参数

Specifications and Model	Feed Particle Size (mm)	Processing Capacity (t/h)	Jigging Area (m²)	Jigging Frequency (times/min)	Air Volume (m³)	Air Pressure (mpa)	Gangue Section Diameter (mm)	Middlings Section Diameter (mm)	Secondary Coking Coal Diameter (mm)
规格型号	入料粒度	处理能力	跳汰面积	跳汰次数	风量	风压	矸石段直径	中煤段直径	次精煤直径
SKT-6	0-100	60-120	6.03	30-90	≥48	0.03-0.05	16/19	13/16	6/13
SKT-8	0-100	80-160	8.25	30-90	≥65	0.03-0.05	16/19	13/16	6/13
SKT-10	0-100	100-200	10	30-90	≥80	0.03-0.05	16/19	13/16	6/13
SKT-12	0-100	120-240	12	30-90	≥98	0.03-0.05	16/19	13/16	6/13
SKT-14	0-100	140-280	14	30-90	≥112	0.03-0.05	16/19	13/16	6/13
SKT-16	0-100	160-320	16	30-90	≥128	0.03-0.05	16/19	13/16	6/13
SKT-18	0-100	180-360	18	30-90	≥144	0.03-0.05	16/19	13/16	6/13
SKT-20	0-100	200-400	20	30-90	≥160	0.03-0.05	16/19	13/16	6/13
SKT-24	0-100	240-460	24	30-90	≥192	0.03-0.05	16/19	13/16	6/13

Bucket Elevator

斗式提升机



PRODUCT INTRODUCTION

产品介绍

斗式提升机是用于输送粉状、颗粒状及小块状物料的连续输送设备。在选煤厂对选后产品（中煤和矸石）的提升运输和脱水；可用于中煤、精煤的初步脱水，也可用于污水捞坑。

The bucket elevator is a continuous conveying device used for conveying powdery, granular, and small lump materials. In coal preparation plants, it is used for the lifting transportation and dewatering of products after selection (middlings and gangue). It can also be used for the preliminary dewatering of middlings and coking coal, as well as for sludge removal in sewage ponds.

TECHNICAL FEATURES

技术特点

脱水斗式提升机由驱动装置、头部组件、机体、尾部组件、斗链、及支架组成。驱动装置包括电动机、减速机、传动链及链轮。

The dewatering bucket elevator consists of a drive unit, head assembly, machine body, tail assembly, bucket chain, and frame. The drive unit includes an electric motor, reducer, transmission chain, and sprocket.

TECHNICAL PARAMETERS (DE-WATERING TYPE)

技术参数(脱水型)

规格型号	Specifications and Model	T3240	T3260	T4060	T4080	T40100	T50100	T50120	T50140
提升机最大长度	Maximum Length of Elevator (m)	20		23			26		
提升机倾角	Inclination Angle of Elevator (°)	50° -70°							
运输物料粒度	Material Particle Size (mm)	0-100							
斗宽	Bucket Width (mm)	400	600		800	1000		1200	1400
斗子容量	Bucket Capacity (t)	28.3	42.5	66.4	88.6	110.7	173	207.6	242.2
斗子间距	Bucket Spacing (mm)	640		800			1000		
生产能力	Production Capacity (t/h)	15.3-51.6	23-77.5	28.5-96.8	38.3-129.2	47.5-161.4	59.8-201.8	71.8-242.2	83.7-282.5
散堆比重	Bulk Density (t/m³)	1.2-1.6							
斗链速度	Chain Speed (m/s)	0.16-0.27							
装满系数	Filling Coefficient	0.5-0.75							
牵引链类型	Chain Type	板状链Plate Chain		带中间滚轮套筒板状链With Intermediate Roller Bushing Plate Chain					
链板节距	Chain Pitch (mm)	320		400			500		
链板宽度	Chain Plate Width (mm)	65		900			120		
链板厚度	Chain Plate Thickness (mm)	16							

TX-CZ Flip Flow Screen

TX-CZ-弛张筛



PRODUCT INTRODUCTION

产品介绍

弛张筛选是专门针对粘性较大、水分较高，而且是细、粘、湿性物料的专业筛选设备。弛张筛可有效的使湿粘物料层松散、分层和透筛，广泛应用于煤炭、电力、煤化工、冶金、建材等行业。

The flip flow screen is a specialized screening device designed for materials that are highly viscous, have high moisture content, and are fine, sticky, and wet. It effectively loosens, separates, and screens wet, viscous materials, and is widely used in industries such as coal, power generation, coal chemical processing, metallurgy, and building materials.

PRODUCT ADVANTAGES

产品优势

- 1.采用双质体亚共振原理，振动频率为每分钟800次，分级粒度可小到1mm。

2.浮动筛框振幅可调，振动强度在10-50g范围内可调，筛分难筛物料，不容易堵塞。

3.设备运行可靠性高，日常维护量少，利用率高。

4.筛分机座落在中空的橡胶弹簧上，减振效果好，产生的噪音小，而且橡胶弹簧寿命长。

5.采用一次成型的聚氨酯弹性体筛板，使用寿命长。
1. It uses the dual-mass sub-resonance principle, with a vibration frequency of 800 times per minute, and grading particle size can be as small as 1 mm.

2. The floating screen frame has adjustable amplitude, with vibration intensity adjustable within the range of 10-50g, capable of screening difficult-to-screen materials without easy blockage.

3. High equipment reliability, low daily maintenance volume, and high utilization rate.

4. The screen is mounted on a hollow rubber spring, which provides good shock absorption, low noise, and a long service life for the rubber spring.

5. It uses a one-time molded polyurethane elastomer screen plate with a long service life.

TECHNICAL PARAMETERS

技术参数

Model 型 号	Single Layer Area (m²) 单层面积	Number Of Layers 层数	Inclination (°) 倾角	Particle Size (mm) 粒度	Moisture Content (%) 水份	Power (kw) 功率	Capacity (t/h) 产能
TX-CZ-1350	6.5	1/2	16-25	3-20	≤15	18.5/37	35-70
TX-CZ-1650	8	1/2	16-25	3-25	≤15	22/45	50-90
TX-CZ-1860	9.5	1/2	16-25	3-25	≤15	22/45	50-105
TX-CZ-2060	11	1/2	16-25	3-30	≤15	22/45	65-120
TX-CZ-2070	14	1/2	16-25	3-30	≤15	30/55	80-150
TX-CZ-2460	15.5	1/2	16-25	3-35	≤15	30/55	120-170
TX-CZ-2480	19	1/2	16-25	3-35	≤15	30/55	125-200
TX-CZ-2770	19	1/2	16-25	3-42	≤15	30/55	130-240
TX-CZ-2870	24	1/2	16-25	3-42	≤15	30/55	150-260
TX-CZ-3090	27	1/2	16-25	3-50	≤15	30/74	183-300
TX-CZ-30110	33	1/2	16-25	3-50	≤15	30/55	200-360

TX-XYK-Circular Vibrating Screens

TX-XYK稀油圆形振动筛



PRODUCT INTRODUCTION

产品介绍

XYK系列圆振动筛是我公司吸收国内技术制造的高效振动筛。适宜采石场筛分砂石料，也可供选煤、选矿、建材、电力及化工等行业作产品分级用。

The XYK series circular vibrating screens are efficient vibrating screens manufactured by our company, absorbing domestic technology. They are suitable for grading sand and gravel in quarries and can also be used for product grading in coal washing, mineral processing, building materials, power, and chemical industries.

FEATURES AND ADVANTAGES

特点及优势

- 1、采用稀油润滑激振器，偏心块调整拆卸方便，接触式和轴向迷宫式密封兼用，密封性能好；上方设置了注油孔，保证轴承润滑良好，不漏油；
- 2、结构简单、安装维修方便，使用寿命长等优点；
- 3、运行平稳可靠、调节灵活、维修量小等特点。
- 4、筛子横梁与筛箱采用高强度螺栓联接，无焊接。
- 5、采用轮胎或万向联轴器，柔性连接，运转平稳。
- 1.Uses dilute oil-lubricated vibrator with convenient adjustment and disassembly of eccentric blocks. It combines contact and axial labyrinth seals, ensuring good sealing performance. The upper part is equipped with an oil injection hole to ensure good lubrication of the bearings and prevent oil leakage.
- 2.The structure is simple, easy to install and maintain, and has a long service life.
- 3.The screen operates smoothly and reliably, is easy to adjust, and requires little maintenance.
- 4.The screen beams are connected to the screen box with high-strength bolts, without welding.
- 5.Uses tire or universal joint couplings for flexible connection and smooth operation.

TECHNICAL PARAMETERS

技术参数

Model 型号	Feed Particle Size (mm) 入料粒度	Area (m²) 面积	Number Of Layers 层数	Inclination (°) 倾角	Amplitude (mm) 振幅	Capacity (t/h) 处理能力	Power (kw) 功率
TY-XYK-1548	≤200	7.2	1/2/3/4	15-30	8-10	25-220	15/18.5
TY-XYK-1854	≤200	9.72	1/2/3/4	15-30	8-10	32-310	18.5/22
TY-XYK-1860	≤200	10.8	1/2/3/4	15-30	8-10	50-340	18.5/22
TY-XYK-2160	≤200	12.6	1/2/3/4	15-30	8-10	120-450	22/30/37
TY-XYK-2170	≤200	12.7	1/2/3/4	15-30	8-10	80-600	30/37
TY-XYK-2460	≤200	14.4	1/2/3	15-30	8-10	80-650	22/37/45
TY-XYK-2470	≤200	16.8	1/2/3	15-30	8-10	100-700	37/45
TY-XYK-2860	≤200	16.8	1/2	15-30	8-10	150-750	37/45/55
TY-XYK-3060	≤200	18	1/2	15-30	8-10	200-750	37/45
TY-XYK-3075	≤200	21.6	2/3	15-30	8-10	600-800	37/74
TY-XYK-3180	≤200	24.8	1/2	15-30	8-10	600-1000	60/74
TY-XYK-3680	≤200	24.8	1/2	15-30	8-10	600-1500	74/90

TXG-High Frequency Linear Vibrating Dewatering Screens

TXG-高频直线振动脱水筛



PRODUCT INTRODUCTION

产品介绍

尾矿脱水筛，广泛应用于煤炭、冶金、电力、建材等行业，对中细粒级物料进行干湿式分级或脱水、脱泥、脱介等。

Tailings dewatering screens are widely used in coal, metallurgy, power, building materials, and other industries for dry and wet grading or de-watering, de-sliming, and de-medium operations of medium and fine particle size materials.

FEATURES AND ADVANTAGES

特点及优势

- 01
采用激振电机作为激振力，激振力强；
Uses an excitation motor as the source of excitation force, with strong excitation force.
- 02
筛子横梁与筛箱采用高强度螺栓联接，无焊接；
The screen beam is connected to the screen box with high-strength bolts, without welding.
- 03
筛机结构简单，维修方便快捷；
Simple screen structure, convenient and fast maintenance.
- 04
筛分效率高、处理量大、寿命长。
High screening efficiency, large processing capacity, and long service life.

TECHNICAL PARAMETERS

技术参数

Model 型号	Screen Size (mm) 高频筛尺寸	Screen Hole Size (mm) 筛孔尺寸	Capacity (m³/h) 产量	Screen Plate Material 筛板	Power (KW) 功率
TXG-1430	1400*3000	0-0.3	10-15	不锈钢/聚氨酯 Stainless steel/ polyurethane	2x3
TXG-1437	1400*3750	0-0.3	12-20		2x3.7
TXG-1530	1500*3000	0-0.3	12-20		2x3.7
TXG-1836	1800*3000	0-0.3	15-25		2x3.7
TXG-1837	1800*3750	0-0.3	18-25		2x4.5
TXG-1848	1800*4500	0-0.3	20-30		2x5.5
TXG-2045	2000*4500	0-0.3	25-45		2x7.5
TXG-2445	2400*4500	0-0.3	35-50		2x15

【注】振动频率1405次/min为国产电振动器，1500次/min为进口电振动器。
Note: The vibration frequency of 1405 times/min is for domestic electric vibrators, and 1500 times/min is for imported electric vibrators.

TXZD-Linear Banana Screens

TXZD-直线香蕉筛



PRODUCT INTRODUCTION

产品介绍

直线等厚筛是综合了国内先进技术，并结合国内的实际情况而设计的，该等厚筛运动轨迹为直线。筛面向断面成折线形式，从而保证入料端各处筛面的上物料厚度几乎一致，促使筛份效率显著提高，对中、细颗粒的煤分级效果更佳，处理量与同规格的一般惯性振动筛相比可提高1-2倍。

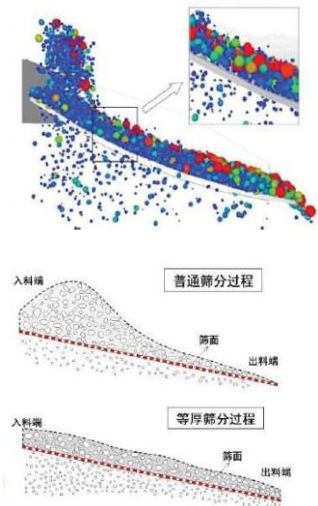
The linear equal-thickness screen is designed by integrating domestic advanced technology and combining with domestic practical conditions. The motion trajectory of this equal-thickness screen is linear. The screen surface is in a zigzag form in cross-section, which ensures that the thickness of the material on the screen surface at the feed end is almost uniform everywhere, significantly improving the screening efficiency. It is particularly effective for grading medium and fine particles of coal, and its capacity is 1-2 times higher than that of the same specification general inertial vibrating screen.

WORKING PRINCIPLE

工作原理

直线运动等厚分选筛的运动是由电机通过弹性联轴器驱动具有偏心质量的激振器，该激振器能使筛床作周期性的直线振动。使筛面上的物料层松散并离开筛面被抛起，使细级物料能透过料层下落，通过筛孔分离，并将卡在筛孔中的物料振出，细级物料向下部移动，通过筛网排除。还能使物料作向前运动，达到排料目的。

The linear motion of the equal-thickness sorting screen is driven by a motor through an elastic coupling to drive a vibrator with eccentric mass. This vibrator can make the screen bed vibrate periodically in a linear motion. This motion loosens the material layer on the screen surface, causing it to leave the screen surface and be thrown up, allowing fine-grade material to pass through the material layer and fall through the screen holes for separation. It also vibrates out the material stuck in the screen holes. Fine-grade material moves downward and is discharged through the screen. Additionally, it enables the material to move forward, achieving the discharge purpose.



FEATURES AND ADVANTAGES

特点及优势

- 1、筛机采用多段筛面，技术先进，处理能量大，筛分效率高。

2、筛机采用箱式(块偏心式)激振器激振，轴承承载能力大，使用寿命长。

3、筛机采用环槽铆钉或高强度螺栓连接，结构简单、紧凑、牢固、维护检修方便。

4、该系列振动筛采用橡胶复合弹簧减震，过共振区运转平稳，噪声小。

- 5、激振器中轴承采用进口SKF/FAG轴承大游隙轴承，采用特殊配合，轴承寿命成倍提高，减少了激振器维护工作量。

6、筛面固定方式采用纵向固定，方便安装与维护。

7、模块化部件设计，通用化程度高。

8、采用特殊密封技术，使横梁法兰与侧板之间联接紧密，无缝隙，产品结构、可靠性高。

9、处理能力大，效率高在同等条件下，香蕉筛可比其它类型的筛机处理能力高40%~60%，效率在90%以上，是大型选煤厂、洗煤厂、选矿厂、洗砂厂首选大型振动筛，是国外引进大型圆形振动筛的理想替代产品。

1. The screen uses multi-section screen surfaces, advanced technology, large processing capacity, and high screening efficiency.

2. The screen uses a box-type (block eccentric) vibrator for vibration, with bearings that have a large load capacity and long service life.

3. The screen uses rivets or high-strength bolts for connection, with a simple, compact, and robust structure that is easy to maintain and inspect.

4. The series of vibrating screens use rubber composite springs for vibration isolation, ensuring stable operation through the resonance zone and low noise.

5. The bearings in the vibrator use imported SKF/FAG bearings with large clearance, special fit, and significantly extended bearing life, reducing the maintenance workload of the vibrator.

6. The screen surface is fixed longitudinally for easy installation and maintenance.

7. Modular component design with a high degree of standardization.

8. Special sealing technology is used to ensure tight connections between the beam flanges and side plates, with no gaps, ensuring the reliability of the product structure.

9. Large processing capacity and high efficiency. Under the same conditions, the banana screen can have a processing capacity 40%-60% higher than other types of screens, with an efficiency of over 90%. It is the preferred large vibrating screen for large coal preparation plants, coal washing plants, concentrators, and sand washing plants and is an ideal replacement for imported large circular vibrating screens.



TECHNICAL PARAMETERS

技术参数

Model 型号	Screen Surface Area (m²) 筛面面积	Feed Particle Size (mm) 给料粒度	Capacity (t/h) 处理量	Screen Inclination (°) 筛面倾角	Screen Hole Size (mm) 筛孔尺寸	Dual Amplitude (mm) 双振幅	Voltage (V) 电压	Power (kw) 功率
TXZD-1848	8.64	≤300	30-160	5°-25°	0.25-50	6-12	380	15
TXZD-1861	10.98		40-200					18.5
TXZD-2448	11.52		50-250					30
TXZD-2461	14.64		50-350					37
TXZD-2473	17.52		60-450					37
TXZD-2496	23.04		80-550					45
TXZD-3061	18.3		200-650					45
TXZD-3073	21.9		200-800					45
TXZD-3085	25.5		240-1100					55
TXZD-3661	21.96		230-1200					55
TXZD-3673	26.28		230-1200					
TXZD-3685	30.6		250-1300					55
TXZD-4361	26.23		220-1200					75
TXZD-4373	31.39		300-1500					75
TXZD-4390	38.7		350-1600					75
TXZD-4973	35.77		450-2000					75
TX2ZD-2461	29.28	≤300	120-300	5°-25°	1-50	6-12	380	55
TX2ZD-3061	36.6		180-530					55
TX2ZD-3073	43.8		200-650					75
TX2ZD-3661	43.92		400-1850					75
TX2ZD-3673	52.56		420-1900					90
TX2ZD-4385	36.55		550-2200					90

TX-ZKX Box Type Oil-Lubricated Linear Screen

TX-ZKX箱式稀油直线筛



PRODUCT INTRODUCTION

产品介绍

TX-ZKX箱式稀油直线振动筛适用于煤炭、矿山、砂石等类似比重的矿物中细粒度的脱水、脱泥、脱介和分级等作业。

The TX-ZKX Box Type Oil-Lubricated Linear Screen is suitable for dewatering, desliming, de-mediuming, and classification of fine-grained materials in minerals with similar specific gravities, such as coal, ore, and sand and gravel.

WORKING PRINCIPLE

工作原理

振动筛的筛箱呈水平状态，又四组减振弹簧支撑，并在由一对齿轮啮合使两组质量相等的偏心块强迫同步的振动器的驱动下，沿振动方向角方向做往复直线轨迹的振动。物料在振动的筛面上做跳跃抛掷，不断向前运动，完成粒度分级和脱水、脱介作业。

The screen box of the vibrating screen is in a horizontal state, supported by four sets of vibration-isolating springs, and driven by a pair of meshing gears to make two sets of equal mass eccentric blocks vibrate synchronously. The screen box vibrates back and forth along the vibration direction angle, causing the material on the vibrating screen surface to jump and throw, continuously moving forward to complete grading and de-watering, de-medium operations.

FEATURES AND ADVANTAGES

特点及优势

01

采用世界先进水平箱式振动器，稀油飞溅润滑、箱体内置润滑油道，保证轴承充分润滑，轴承为振动设备专用进口SKF/FAG/NSK轴承，放油螺塞带磁性，外置式有机塑料透明油标，可很方便的观察油位，采用特殊措施保证轴承和齿轮舒服工作，振动器噪声低于75分贝，轴承温度小于55度。

Utilizes the world's advanced box-type vibrator, with thin oil splash lubrication and built-in lubricating oil channels in the box to ensure sufficient lubrication of the bearings. The bearings are special imported SKF/FAG/NSK bearings for vibration equipment. The oil drain plug has a magnetic strip, and the external organic plastic transparent oil level indicator allows easy observation of the oil level. Special measures are taken to ensure the comfortable operation of bearings and gears. The vibrator noise is below 75 decibels, and the bearing temperature is less than 55 degrees.



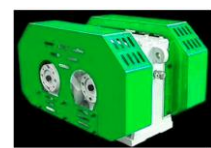
02

箱体式结构保证传动系统的精度
The box-type structure ensures the precision of the transmission system.



03

处理量大，筛分效率高，节省占地面积、节省投资等特点。
Large processing capacity, high screening efficiency, space-saving, and cost-saving.



04

结构先进，使用可靠，稀油维护方便。
Advanced structure, reliable use, and convenient thin oil maintenance.

TECHNICAL PARAMETERS

技术参数

Model 型号	Screen Area (m ²) 筛网面积	Feed article Size (mm) 入料粒度	Screen inclination Angle(°) 筛面倾角	Vibration Frequency (hz) 振动频率	Sieve size (mm) 筛孔尺寸	Capacity (t/h) 处理能力	Power (kw) 功率
TX-ZKX-18-61	19.98	≤100	0-8	15	0.25-25	19-152	18.5
TX-ZKX-24-48	11.52					50-200	22
TX-ZKX-24-52	12.6					50-220	22
TX-ZKX-24-60	14.4					60-250	22
TX-ZKX-24-75	18					80-240	37
TX-ZKX-30-45	13.5					95-340	30
TX-ZKX-30-52	15.75					110-360	30
TX-ZKX-30-60	18					130-420	37
TX-ZKX-30-75	22.5					130-450	37
TX-ZKX-36-45	16.2					130-500	45
TX-ZKX-36-52	18.9					150-530	45
TX-ZKX-36-61	21.6					170-560	55
TX-ZKX-36-75	27					200-600	55
TX-ZKX-43-61	26.23					220-850	75
TX-2ZKX-18-48	17.28	≤100	0-8	15	upper strata: 5-50 lower stratum: 0.25-25	38-225	18.5
TX-2ZKX-24-45	21.6					120-230	37
TX-2ZKX-24-60	28.8					120-260	45
TX-2ZKX-30-45	27					130-380	45
TX-2ZKX-30-52	31.5					140-480	55
TX-2ZKX-30-60	36					180-530	55
TX-2ZKX-36-45	32.4					180-500	55
TX-2ZKX-36-52	37.8					190-850	55
TX-2ZKX-36-60	43.2					210-950	55
TX-2ZKX-36-75	54					300-1000	75

TX-XZK-Linear Vibrating Screens

TX-XZK直线振动筛



PRODUCT INTRODUCTION

产品介绍

XZK直线振动筛是在消化、吸收国内外技术的基础上，并结合市场需求研制出来的新型系列振动筛。广泛应用于煤炭、冶金、电力、建材等行业，对中细粒级物料进行干湿式分级或脱水、脱泥、脱介等。

The TX-XZK linear vibrating screen is a new series of vibrating screens developed based on the digestion and absorption of domestic and international technologies and combined with market demand. It is widely used in coal, metallurgy, power, building materials, and other industries for dry and wet grading or de-watering, de-sliming, and de-medium operations of medium and fine particle size materials.

WORKING PRINCIPLE

工作原理

XZK直线振动筛采用双振动电机驱动，当两台电机做同步、反向旋转时，其偏心块所产生的激振力在平行于电机轴线的方向相互抵消，在垂直于电机轴的方向叠为一合力，因此筛机的运动轨迹为一直线。具有能耗低、效率高、结构简单、易维修、全封闭结构无粉尘溢散的特点。

The XZK linear vibrating screen is driven by double vibrating motors. When the two motors rotate synchronously and reversely, the exciting forces generated by the eccentric blocks cancel each other in the direction parallel to the motor axis and overlap into a resultant force in the direction perpendicular to the motor axis, so the motion trajectory of the screen is a straight line. It has the characteristics of low energy consumption, high efficiency, simple structure, easy maintenance and no dust overflow in the fully enclosed structure.

FEATURES AND ADVANTAGES

特点及优势

01

采用轴偏心块或偏心激振器作为激振力，激振力强；

Uses shaft eccentric block or eccentric vibrator as the source of excitation force, with strong excitation force.

02

筛箱及筛箱孔整体采用激光切割，筛箱整体折弯无任何焊接，避免焊接应力造成的筛箱开裂隐患；

The screen box and screen holes are cut as a whole with laser cutting, and the screen box is folded without any welding, avoiding the potential for screen box cracking caused by welding stress.

03

筛子横梁与筛箱采用高强度螺栓联接，无焊接；

The screen beam is connected to the screen box with high-strength bolts, without welding.

04

具有使用寿命长，耐腐蚀，运行平稳，噪音小，对基础冲击小等特点；

Long service life, corrosion resistance, stable operation, low noise, and minimal impact on the foundation.

05

采用挠性联轴器，柔性联接，运转平稳；

Uses flexible couplings for flexible connection and stable operation.

06

采用稀油润滑两种润滑方式以保证轴承经久耐用；

Two lubrication methods, thin oil lubrication, to ensure the durability of bearings.

07

筛网采用聚氨酯筛网经久耐用损耗低，维修更换方便；

The screen mesh uses polyurethane screen mesh, which is durable, low in wear and tear, and easy to maintain and replace.

TECHNICAL PARAMETERS

技术参数

Model 型号	Screen Area (m²) 筛网面积	Feed Particle Size (mm) 给料粒度	Amplitude (mm) 振幅	Vibration Frequency (mm) 振动频率	Motor Power (kw) 电机功率	Capacity (t/h) 处理能力
TX-XZK-14-37	5.25	≤150	3.5-5.0	16.0-16.33	5.5×2	11-79
TX-XZK-14-45	6.3	≤150	3.5-5.0	16.0-16.33	5.5×2	13-95
TX-XZK-18-37	6.75	≤150	3.5-5.0	16.0-16.33	7.5×2	15-110
TX-XZK-18-45	8.1	≤150	3.5-5.0	16.0-16.33	7.5×2	16-122
TX-XZK-18-52	9.45	≤150	3.5-5.0	16.0-16.33	7.5×2	19-142
TX-XZK-18-60	10.8	≤150	3.5-5.0	16.0-16.33	7.5×2	19-142
TX-XZK-20-45	9	≤150	3.5-5.0	16.0-16.33	11×2	18-195
TX-XZK-20-52	10.5	≤150	3.5-5.0	16.0-16.33	15×2	21-158
TX-XZK-20-60	12	≤150	3.5-5.0	16.0-16.33	15×2	24-180
TX-XZK-24-45	10.8	≤150	3.5-5.0	16.0-16.33	15×2	22-162
TX-XZK-24-52	12.6	≤150	3.5-5.0	16.0-16.33	15×2	25-189
TX-XZK-24-60	14.4	≤150	3.5-5.0	16.0-16.33	15×2	29-216
TX-XZK-30-45	13.5	≤150	3.5-5.0	16.0-16.33	18.5×2	27-203
TX-XZK-30-52	15.75	≤150	3.5-5.0	16.0-16.33	18.5×2	32-236
TX-XZK-30-60	18	≤150	3.5-5.0	16.0-16.33	18.5×2	36-270
TX-XZK-36-45	16.2	≤150	3.5-5.0	16.0-16.33	22×2	32-243
TX-XZK-36-52	18.9	≤150	3.5-5.0	16.0-16.33	22×2	38-135
TX-XZK-36-60	21.6	≤150	3.5-5.0	16.0-16.33	22×2	43-324
TX-XZK-36-75	27	≤150	3.5-5.0	16.0-16.33	22×2	54-405
TX-2XZK-14-37	10.5	≤250	3.5-5.0	16.0-16.33	7.5×2	29-210
TX-2XZK-14-45	12.6	≤250	3.5-5.0	16.0-16.33	7.5×2	35-252
TX-2XZK-18-37	13.5	≤250	3.5-5.0	16.0-16.33	11×2	38-295
TX-2XZK-18-45	16.2	≤250	3.5-5.0	16.0-16.33	11×2	45-324
TX-2XZK-18-52	18.72	≤250	3.5-5.0	16.0-16.33	11×2	52-378
TX-2XZK-18-60	21.6	≤250	3.5-5.0	16.0-16.33	11×2	52-378
TX-2XZK-20-45	18	≤250	3.5-5.0	16.0-16.33	15×2	50-360
TX-2XZK-20-52	21	≤250	3.5-5.0	16.0-16.33	15×2	58-420
TX-2XZK-20-60	24	≤250	3.5-5.0	16.0-16.33	15×2	66-480
TX-2XZK-24-45	21.6	≤250	3.5-5.0	16.0-16.33	18.5×2	60-432
TX-2XZK-24-52	25.2	≤250	3.5-5.0	16.0-16.33	18.5×2	69-504
TX-2XZK-24-60	28.8	≤250	3.5-5.0	16.0-16.33	18.5×2	79-576
TX-2XZK-30-45	27	≤250	3.5-5.0	16.0-16.33	22×2	74-540
TX-2XZK-30-52	31.5	≤250	3.5-5.0	16.0-16.33	22×2	87-630
TX-2XZK-30-60	36	≤250	3.5-5.0	16.0-16.33	22×2	99-720
TX-2XZK-36-45	32.4	≤250	3.5-5.0	16.0-16.33	30×2	89-648
TX-2XZK-36-52	37.8	≤250	3.5-5.0	16.0-16.33	30×2	104-756
TX-2XZK-36-60	43.2	≤250	3.5-5.0	16.0-16.33	30×2	119-864
TX-2XZK-36-75	27	≤150	3.5-5.0	16.0-16.33	45×2	125-864

TX-BSG Fluctuating Roller Feeder (Roller Screen)

TX-BSG – 波动辊式喂料机

Product Introduction 简介

筛盘设偏心、异形款，配备安全保险装置防止物料卡筛；适用于煤炭、焦炭、矿石、石灰石等物料，也可处理矿山粘性物料、建筑垃圾、生活垃圾，广泛应用于输煤系统及冶金、化工、建材、矿山、煤炭等行业。

The screen discs are available in eccentric and special-shaped designs, with a safety device equipped to prevent material jamming. It is suitable for screening coal, coke, ores, limestone and other materials, as well as handling viscous mine materials, construction waste and domestic waste. It is widely used in coal handling systems, as well as metallurgy, chemical industry, building materials, mining and coal industries.



Working Principle 工作原理

- 筛轴按不同工作角度布置，物料在高角度位置运行速度快、低角度位置速度缓，两相汇时做相向运动，使物料均匀分布筛面，提升筛分效率；
- 筛面由多根平行排列、交错装有筛盘的筛轴组成，滚轴通过轮 / 齿轮传动，转动方向与物料流动方向一致；
- 设备为座式，分左传动、右传动；
- 物料入料后，经前 5 根与水平成 15° 的筛轴，在自重 + 筛片转动作用下快速移动并完成初步粗筛分，大部分物料在此阶段筛分并平铺筛面；后 5 根筛轴与水平成 5° 近乎水平，物料前进减速，进入精筛阶段，小于 30mm 粒度物料被筛下，大于 30mm 物料经出料口送入破碎机。



- Screen shafts are arranged at different working angles. Materials run at a high speed at high-angle positions and at a slow speed at low-angle positions. When the two kinds of materials converge at a certain position on the screen surface, they move towards each other, which makes materials evenly distributed on the screen surface and improves screening efficiency.
- The screen surface consists of multiple parallel screen shafts with staggered screen discs. Rollers rotate through wheel/gear transmission, and their rotation direction is consistent with the material flow direction.
- The equipment is seat-type, divided into left transmission and right transmission.
- After feeding, materials move down rapidly under the dual action of self-weight and screen plate rotation through the first 5 screen shafts with a 15° angle to the horizontal, completing the initial rough screening stage. Most materials are screened and spread evenly on the entire screen surface in this stage; when materials enter the last 5 screen shafts (with a 5° angle to the horizontal, almost horizontal), the material forward speed slows down, entering the fine screening stage. Materials with a particle size less than 30mm are screened down, and materials larger than 30mm are sent to the crusher through the discharge port for further crushing.

Advantages 优势

01

多滚轴旋转推料，密封性好、噪音小；
Multiple rollers rotate to push materials forward, featuring good sealing performance and low noise.

02

每根筛轴配独立驱动装置，安装、维护便捷；
Each screen shaft is equipped with an independent driving device, facilitating installation and maintenance.

03

筛盘采用锰 13 铸成，耐磨性好、使用寿命长；
Screen discs are cast with Manganese 13, with excellent wear resistance and long service life.

04

筛轴装过载保护装置，堵转时自动报警并切断电机电源，实现自我保护；
The screen shaft is equipped with an overload protection device, which can automatically alarm and cut off the motor power supply when the shaft is locked, achieving self-protection.

05

可按用户要求增设电动挡板，实现旁路运行，提升运行灵活性；
An electric baffle can be added according to user requirements to realize bypass operation, improving operational flexibility.

06

转速可调，具备机械、电气双重保护；
Stepless speed regulation with mechanical and electrical double protection.

07

自带旁路装置；
Equipped with a bypass device.

08

支持集控、就地两种操作模式。
Both centralized control and local operation are available.

TX-LQS Fully Enclosed Environmental Protection Vibrating Screen TX-LQS – 全封闭环保振动筛

简介 Product Introduction

又称沥青料专用振动筛、砂石骨料环保筛，主打砂石骨料多分级物料筛分，核心用于沥青搅拌站石料级筛分；针对沥青料特殊物理特性研发，为节能、环保、便携的新型筛分设备，采用振动电机驱动，筛网为高钢材质，筛体整体密封，分级粒度大、能耗低、筛分效率高。

Also known as asphalt special vibrating screen and sand and gravel aggregate environmental protection screen, it is used for multi-classification screening of sand and gravel aggregate, mainly for aggregate grading screening of asphalt mixing plant. Developed according to the special physical properties of asphalt materials, it is a new type of energy-saving, environmental protection and portable screening equipment. Its great advantage is the adoption of vibration motor drive. The screen mesh is made of high-strength steel material, firm and wear-resistant; the screen body is fully enclosed, with large grading particle size, low energy consumption and high screening efficiency.

主要用途 Main Application



1
沥青搅拌站
asphalt mixing plant

适用于沥青搅拌站石料分级



2
砂石骨料
sand and gravel aggregate

适用于砂石骨料多分级筛分等场景

Developed according to the service characteristics of vibrating screen for asphalt mixing plant and the screening requirements of sand and gravel aggregate, it is suitable for aggregate grading of asphalt mixing plant and multi-classification screening of sand and gravel aggregate. The equipment has good stability, large grading particle size, convenient operation and maintenance, and low energy consumption.

工作原理 Working Principle

- 采用两台振动电机反向自同步运转驱动，振动轨迹为直线，设计振幅 5-7mm；
 - 筛分面由两段弧形钢丝编织筛网首尾相接组成，可实现物料精准筛选，多分级筛面大幅提升筛分效率；
 - 筛网采用“一端定位销固定+另一端勾板张紧”的固定形式，更换便捷；
 - 设外置保温层，有效减少筛分过程中物料的热量损失。
- Driven by two vibration motors running in reverse self-synchronization, the vibration trajectory is linear, and the designed amplitude is generally in the range of 5-7mm.
 - The screen surface is composed of two sections of steel wire woven screen mesh placed in an arc shape and connected end to end, which can realize accurate screening of materials, and the multi-classification screen surface greatly improves the material screening efficiency.
 - The screen mesh is fixed by the method of one end fixed with positioning pin and the other end tensioned with hook plate, and its unique screen mesh fixing form makes the screen mesh replacement extremely convenient and fast.
 - An external thermal insulation layer is provided to effectively reduce the heat loss of materials during the screening process.

特点及优势 Features and Advantages

- 01** 搭载两台进口振动电机驱动，基本免维护；
Driven by two imported vibration motors, it is a basically maintenance-free vibrating screen.
- 02** 筛网为高钢材质，坚固耐磨；
The screen mesh is made of high-strength steel material, firm and wear-resistant.
- 03** 筛体整体密封，兼具环保、节能、高效特性。
The screen body is fully enclosed, with the characteristics of environmental protection, energy saving and high efficiency.

技术参数 TECHNICAL PARAMETERS

Model 型号	Screen Mesh Size (mm) 筛孔尺寸	Feed Particle Size (mm) 给料粒度	Double Amplitude(mm) 双振幅	Layers 层数	Power 功率	Processing Capacity (t/h) 处理能力
TX-LQS-1000	1-40	<100	6-8	4	2×2.2	60-90
TX-LQS-1500	1-40	<100	6-8	4	2×3	90-140
TX-LQS-2000	1-40	<100	6-8	5	2×4.5	120-160
TX-LQS-3000	1-40	<100	5-7	6	2×7	180-260
TX-LQS-4000	1-40	<100	5-7	6	2×11	240-320

TX-XS- Bucket Wheel Sand Washer TX-XS-轮斗洗砂机



Product Introduction

简介

XS 系列新型洗砂机是一种轮斗式洗选设备，可清洗分离砂石中的石粉泥土，其新颖的密封结构，可靠的传动装置，确保了清洗脱水的效果，是配合洗砂线和制砂机使用的一种高效洗砂设备。XS 广泛用于砂石场、矿山、建材、交通、化工、水利水电、混凝土搅拌站等行业中对物料的洗选。

The XS Series Sand Washer is a wheel-type sand washing machine specifically designed to remove stone powder and soil from sand and gravel. Its innovative sealed structure and reliable transmission system ensure efficient cleaning and dewatering performance, making it an effective washing and screening solution for sand and gravel production lines and sand making machines. The XS Series is widely used in sand and gravel plants, mines, building materials, transportation, chemical, water conservancy and hydropower, concrete mixing stations, and other industries for material cleaning and grading.

Features and Advantages

特点及优势

- 01** 结构合理、传动轴承装置与水 and 受水物料隔离，避免了轴承损坏；
Rational structure with transmission bearings isolated from water and processed materials, preventing bearing damage;
- 02** 该洗砂机流道板采用耐磨锰钢板提高使用寿命，筛网采用弧形筛网增加了其透水面积，提高了成品砂的质量；
Wear-resistant manganese steel flow channel plates extend service life, while curved screens increase water permeability and enhance finished sand quality;
- 03** 采用独特的溢流设计防止溢流水湍急，结构采用内溢流设计，减少了细砂的流失；
Unique overflow design prevents turbulent water flow; internal overflow structure minimizes fine sand loss;
- 04** 该设备水轮圆弧两侧设有耐磨聚氨酯弧板，防止弧板磨损；
Wear-resistant polyurethane arc plates are installed on both sides of the water wheel arc to prevent arc plate abrasion;
- 05** 筛网经过特殊工艺处理耐磨性比普通钢网寿命提供2倍。
The screen mesh undergoes special processing, offering twice the wear resistance and service life compared to standard steel mesh.

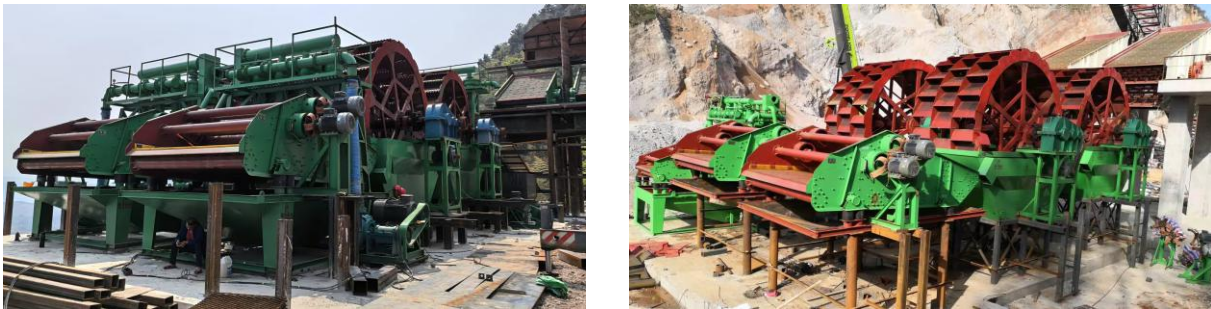
TECHNICAL PARAMETERS

技术参数

Model 型号	Bucket Diameter (mm) 轮斗直径	Max Feed Size(mm) 高效水力旋流器	Processing Capacity (t/h) 处理能力	Rotational Speed (r/min) 转速	Power (kw) 功率
TX-XS-3016	3000	≤10	120~180	0-2	5.5/11
TX-XS-3220	3200	≤10	120~180	0-2	7.5/15
TX-XS-3624	3600	≤10	120~180	0-2	7.5/15
TX-XS-4025	4000	≤10	150~220	0-2	11/18.5
TX-XS-4225	4200	≤10	200~280	0-2	11/22
TX-XS-4525	4500	≤10	240~300	0-2	11/22
TX-XS-5024	5000	≤10	260~360	0-2	11/37
TX-XS-6024	6000	≤10	300~450	0-2	11/37

备注：特殊配置可咨询腾宇新创公司。
Note: For special configuration, please contact TYXC Company.

2TX Double Water Wheel Sand Washing, Recovery and Dewatering Integrated Machine 2TX – 双水轮洗砂回收脱水一体机



Product Introduction 简介

腾宇新创结合市场走访和用户反馈（重点针对南方地区）研发，为“二洗一回一脱水”设备；解决砂子含泥量高、现场安装施工繁琐等问题，对含泥量高、粘性低的物料清洗效果显著，洗出的成品砂洁净度高、细砂流失少、处理能力强；采用水力流分离技术，彻底去除泥砂中的淤泥、粘土等杂质，最大化回收细砂，提升水洗砂品质，实现粗细砂级配合理搭配。

Developed by Tengyu Xinchuang based on market research and user feedback (especially for southern China), it is a "two washing, one recovery and one dewatering" equipment. It solves the problems of high mud content in sand and cumbersome on-site installation, with significant cleaning effect on materials with high mud content and low viscosity. The washed finished sand has high cleanliness, low fine sand loss and large processing capacity. Adopting hydraulic flow separation technology, it completely removes silt, clay and other impurities in sand and mud, recovers lost fine sand to the maximum extent, improves the quality of washed sand and realizes reasonable gradation of coarse and fine sand.

Equipment Composition 设备组成

由轮斗洗砂、回收脱水一体机等核心部件组成。
Composed of core components such as bucket sand washer and recovery & dewatering integrated machine.

Working Principle 工作原理

- 砂水混合物进入第一道轮斗洗砂水箱，电机驱动减速机转动，挖斗经筛网完成砂水分离，物料进入第二道水轮二次水洗；
- 第二道轮斗洗砂原理与第一道一致，若原料含泥量超 15%，可向第二道轮斗加清水水洗，保障成品砂品质；
- 物料从轮斗洗砂出料口进入高频直线振动脱水筛，完成脱水、除泥、除介质处理，降低成品砂含泥量和含水率；同时，轮斗 / 螺旋洗砂溢流口的废水（含大量细砂）经管道进入脱水回收一体机水箱，渣浆泵将其输送至高效水力旋流器，离心分级浓缩后的细砂经旋流器沉砂嘴排入轮斗洗砂挖斗，与粗细砂混合脱水，保证成品砂级配均匀，实现细砂全回收；
- 可根据客户原料性质，定制设计设备结构。
- The sand-water mixture enters the water tank of the first bucket sand washer. The motor drives the reducer to rotate, and the bucket completes sand-water separation through the screen mesh, then the material enters the second water wheel for secondary washing.
- The working principle of the second bucket sand washer is the same as the first one. If the mud content of raw materials exceeds 15%, clean water can be added to the second bucket to ensure the quality of finished sand.

- Materials enter the high-frequency linear vibrating dewatering screen from the discharge port of the bucket sand washer to complete dewatering, desilting and medium removal, reducing the mud content and water content of finished sand. At the same time, wastewater (containing a large amount of fine sand) from the overflow port of the bucket/spiral sand washer enters the water tank of the recovery & dewatering integrated machine through a pipeline, and is transported to the high-efficiency hydrocyclone by a slag slurry pump. The fine sand after centrifugal classification and concentration is discharged into the bucket of the bucket sand washer through the sand settling nozzle of the hydrocyclone, and mixed with coarse and fine sand for dewatering, ensuring uniform gradation of finished sand and realizing full recovery of fine sand.
- The equipment structure can be customized according to the properties of customers' raw materials.

Features and Advantages 特点及优势

- 01

集洗砂、脱水、细砂回收于一体，能耗低、使用寿命长、安装简便、维修成本低、占地面积小；
This equipment integrates sand washing, dewatering and fine sand recovery, with advantages of low energy consumption, long service life, easy installation, low maintenance cost and small floor area.
- 02

融合轮式洗砂机、高频直线振动脱水筛、高效水力旋流器三种设备的核心优势；
The integrated machine combines the advantages of three equipments: wheel sand washer, high-frequency linear vibrating dewatering screen and high-efficiency hydrocyclone.
- 03

大幅降低砂子中的泥、水、粉尘、杂质，提升砂子品质；
Greatly reduces mud, water, dust and impurities in sand, improving sand quality.
- 04

节能环保，整体能耗低；
Environmental-friendly and energy-saving with low energy consumption.
- 05

整机模块化组装，运输便捷，施工现场仅需螺栓连接即可完成安装；
The whole machine is modularly assembled for convenient and fast transportation; on-site installation can be completed only by bolt connection.
- 06

故障发生率低，使用寿命长；
Low failure rate and long service life.
- 07

可根据客户不同需求，量身定制特殊机型。
Customized models can be designed according to different customer requirements.

TECHNICAL PARAMETERS 技术参数

Model 型号	Feed Particle (mm) 入料粒度	Bucket Diameter 轮斗直径	Hydrocyclone 旋流器	High-frequency Linear Screen(mm) 高频直线筛	Processing Capacity (t/h) 处理能力	Water Treatment Capacity(m³/h) 处理水量	Total Power (kw) 总功率	Total Weight (kg) 总重量
2TX-26-14-2x250	≤10	2600	2 × 250	1400*3000	35-50	60-80	39.5	10300
2TX-28-18-2x250	≤10	2800	2 × 250	1800*3750	45-75	75-100	40.9	14200
2TX-30-18-2x350	≤10	3000	2 × 300	1800*4500	65-85	95-150	59	15510
2TX-32-20-2x350	≤10	3200	2 × 350	2000*4500	85-120	140-200	89	16982
2TX-32-20-4x350	≤10	3200	4 × 350	2000*4500	85-120	195-300	107	17480
2TX-36-22-2x350	≤10	3600	2 × 350	2200*4500	100-130	150-200	89	22570
2TX-36-22-4x350	≤10	3600	4 × 350	2200*4500	100-130	220-300	107	23085
2TX-36-24-2x350	≤10	3600	2 × 350	2400*4500	120-150	150-200	97	24517
2TX-36-24-4x350	≤10	3600	4 × 350	2400*4500	125-160	220-300	115	26500

备注：特殊配置可咨询腾宇新创公司。
Note: For special configuration, please contact TYXC Company.

TY-XC- Dehydration and Recovery Integrated Machine

TY-XC- 脱水回收一体机



Product Introduction

简介

目前，国内市场已经出现大量细砂回收机生产厂家。设备质量价格参差不齐，我公司为了确保在水洗沙和尾矿干排行业的领先地位，更好的服务于广大客户，综合各地方，地理差异，自主研发了脱水回收二合一的一体机，是砂场建设中工艺流程更加合理简单化，在砂石行业洗砂脱水回收设备生产企业中处于领先地位。同时此设备克服了现有市场上细砂回收机的所有缺点(细砂和粗砂混合不均匀，以及细砂成坨等)。做到了粗细砂均匀分部，级配合理等优势。

Currently, the domestic market has seen a proliferation of fine sand recovery machine manufacturers. With equipment quality and pricing varying widely, our company has independently developed a two-in-one dewatering and recovery integrated machine to maintain our leading position in the washed sand and tailings dry-discharging industries and better serve our customers. This innovation addresses regional and geographical differences, streamlining and rationalizing the process flow in sand plant construction. We now hold a leading position among sand and gravel industry manufacturers of sand washing, dewatering, and recovery equipment. Simultaneously, this equipment overcomes all shortcomings of existing fine sand recovery machines on the market (such as uneven mixing of fine and coarse sand, and clumping of fine sand). It achieves uniform distribution of coarse and fine sand, rational gradation, and other advantages.

Equipment Composition

设备组成

由电机、水力旋流器，重型脱水筛，渣浆泵，储水箱、返料箱，连接管道等组成。

Comprising an electric motor, hydrocyclone, heavy-duty dewatering screen, slurry pump, water storage tank, return tank, connecting pipelines, and other components.

Working Principle

工作原理

砂和水的混合物进入重型脱水筛或轻型脱水筛，大部分中、粗砂通过脱水筛，脱水并输送到脱水筛中间部分位置。同时由于浮力作用大部分水和细砂通过滤隔板进入储水箱通过渣浆泵把储料箱内水和细砂输送到水力旋流器内，然后离心分级浓缩后的细砂，经水利旋流器出砂口也进入重型脱水筛的中间部分位置粗、中、细三种砂在脱水筛进行二次脱水，混合后，在脱水筛出料口送入皮带运输机。储料箱内的废水，泥，粉层、杂质等，经过旋流器溢流口排出。

The sand-water mixture enters a heavy-duty dewatering screen or a light-duty dewatering screen. Most of the medium and coarse sand passes through the dewatering screen, where it is dewatered and transported to the central section of the screen. Simultaneously, buoyancy causes most water and fine sand to pass through the filter plate into the storage tank. A slurry pump conveys the water and fine sand from the storage tank to the hydrocyclone. The centrifugal classification concentrates the fine sand, which exits the hydrocyclone discharge port and also enters the middle section of the heavy-duty dewatering screen. Coarse, medium, and fine sand undergo secondary dewatering on the dewatering screen. and are discharged through the screen's outlet onto a belt conveyor. Wastewater, sludge, powder layers, and impurities within the storage tank are discharged through the cyclone's overflow outlet.

Features and Advantages

特点及优势

- 此设备具有脱水和细砂回收的功能，解决粗细砂搭配均匀合理，成品砂品质更好更干净；
 - 该设备结构简单，安装方便，使用成本低，占地面积小，砂的品质高等优势；
 - 坚固的重型结构，非常适合严苛的作业环境；
 - 洁净度高，细砂流失少、处理能力大；
 - 旋流器内衬橡胶/高铝陶瓷/聚氨酯，水力旋流分离技术，采用向下的螺旋线进料方式，高效、彻底地分离75 μm以下的杂质；而且旋流器组可以根据水量大小进行调节，水量大的情况可以同时开，水量小的时候可以只开两个或三个；
 - 高频直线脱水筛，脱水效果最佳，脱水后含水率约10%–15%；
 - 高铬合金渣浆泵，高效节能、振动小、噪声低、运行可靠、使用寿命长；
 - 减少主要可回收材料排入沉淀池，减少沉淀池维护，节约成本；
 - 所有磨损区域皆采用特殊耐磨材料，延长使用寿命。
- This equipment features dewatering and fine sand recovery functions, ensuring uniform and optimal coarse-fine sand blending for superior, cleaner finished sand quality;
 - It offers advantages including simple structure, easy installation, low operating costs, compact footprint, and high sand quality;
 - Its robust heavy-duty construction is exceptionally suited for demanding operational environments;
 - Delivers high cleanliness, minimal fine sand loss, and substantial processing capacity;
 - The cyclone is lined with rubber/high-alumina ceramic/polyurethane and employs hydrocyclonic separation technology. It uses a downward spiral feed method to efficiently and thoroughly separate impurities below 75 μm. The cyclone group can be adjusted according to water volume—all units can operate simultaneously during high flow, while only two or three units may be activated during low flow;
 - High-frequency linear dewatering screen delivers optimal dewatering performance, achieving post-dewatering moisture content of approximately 10%-15%;
 - High-chromium alloy slurry pump offers high efficiency, energy savings, minimal vibration, low noise, reliable operation, and extended service life;
 - Reduces discharge of primary recyclable materials into sedimentation tanks, minimizing tank maintenance and lowering costs;
 - All wear zones utilize specialized wear-resistant materials to prolong operational lifespan.



TECHNICAL PARAMETERS

技术参数

Model 型号	Feed Particle (mm) 入料粒度	High-Efficiency Hydrocyclone 高效水力旋流器	Linear Vibrating Dewatering Screen 直线振动脱水筛	Processing Capacity (t/h) 处理能力	Water Processing Volume(r/h) 处理水量	Total Power (kw) 总功率
TY-XC-18-2x350	≤10	2x350	1800×4500	80–100	75–150	37
TY-XC-18-2x350	≤10	2x350	1800×4500	80–100	100–200	52
TY-XC-20-2x350	≤10	2x350	2000x4500	90–130	120–200	59
TY-XC-20-4x350	≤10	2x350	2000x6000	90–130	200–400	77
TY-XC-22-2x350	≤10	2x350	2200×4500	95–150	150–200	59
TY-XC-22-2x350	≤10	2x350	2200×5250	95–150	200–300	77
TY-XC-24-3x350	≤10	2x350	2400x4500	120–180	185–280	75
TY-XC-24-4x350	≤10	2x350	2400×5250	105–150	250–400	105
TY-XC-24-2x350	≤10	2x350	2400×6000	110–155	165–200	67
TY-XC-30-4x350	≤10	4×350	3000×5250	150–230	250–400	112
TY-XC-30-4x350	≤10	4x350	3000x6000	175–245	250–400	112
TY-XC-30-4x350	≤10	4x350	3000×4500	175–245	250–400	92
TY-XC-30-2x350	≤10	2x350	300x5250	150–230	150–200	74
TY-XC-30-2x350	≤10	2x350	3000×6000	175–245	150–200	74

备注：特殊配置可咨询腾宇新创公司。
Note: For special configuration, please contact TYXC Company.

TXS Sand Washing Recovery & Dehydration Integrated Machine

TXS–系列洗砂回收脱水一体机



Product Introduction

简介

目前，国内市场已经出现大量洗砂脱水回收设备厂家，设备参差不齐，公司为了确保在水洗砂行业处于领先地位，更好的服务客户，借鉴国内外先进的洗砂技术，自主研发出智能化水洗砂设备，对清洗后的物料进行高效脱水，控制成品砂的含水率，洗砂洁净度高，细砂流失少、处理能力大同时采用水力旋流分离技术，彻底去除泥砂中的淤泥、粘土等杂质，并最大限度的回收流失的细砂，此设备提高了水洗砂品质，做到了粗、细砂级配合理搭配。同时该设备对含泥量非常大的泥砂处理效果非常显著。

At present, a large number of manufacturers of sand washing, dewatering and recovery equipment have emerged in the domestic market with uneven equipment quality. To maintain a leading position in the water-washed sand industry and better serve customers, our company has independently developed an intelligent water-washed sand equipment by drawing on advanced sand washing technologies at home and abroad. This equipment can efficiently dewater the cleaned materials and control the moisture content of finished sand, featuring high sand washing cleanliness, low fine sand loss and large processing capacity. Meanwhile, it adopts hydrocyclone separation technology to completely remove impurities such as silt and clay from the sand and recover the lost fine sand to the maximum extent. The equipment improves the quality of water-washed sand and achieves a reasonable gradation of coarse and fine sand. In addition, it has a remarkable treatment effect on sand with a very high mud content.

Equipment Composition

设备组成

由螺旋洗砂 + 轮斗洗砂 + 回收脱水一体机等部件组成。

It consists of spiral sand washing unit, wheel bucket sand washing unit, recovery and dewatering integrated unit and other components.

Working Principle

工作原理

- 针对含泥量及粘性特别大砂子时，砂水混合物首先进入螺旋洗砂机，螺旋洗砂设备具有揉搓的功能，可以去除覆盖在砂石表面的粘性物质洗去大部分泥土，实践中效果明显；
- 通过螺旋洗砂出料口进入轮斗式洗砂，水洗后的砂在水轮低速转动过程中通过水轮的挖斗上的筛网除去绝大部分污水进而降低砂子的含水率，达到洗净效果；
- 由轮斗洗砂出料口进入脱水回收设备上高频直线振动脱水筛做进一步的脱水除泥介质处理，从而降低成品砂的含泥量及含水率；与此同时从螺旋洗砂和轮斗洗砂溢流口流出的废水含大量细砂，通过溢流管道进入脱水回收一体设备水箱，经渣浆泵输送到高效水力旋流器中，然后离心分级浓缩后的细沙，经旋流器沉砂嘴排入轮斗洗砂设备的挖斗里面和粗中细砂混合到一起进行脱水水处理，这样可以充分保证成品砂粗细搭配均匀合理，同时可以完全回收的细砂成坨问题，成品砂的品质更高，颗粒级配更加均匀，成品砂更加干净；
- 同时也可根据客户原料性质要求设计不同产品结构。
- For sand with extremely high mud content and viscosity, the sand-water mixture first enters the spiral sand washer. The spiral sand washing equipment has a kneading function, which can remove the viscous substances covering the surface of sand and stone and wash away most of the soil, with a remarkable effect in practice.
- The sand then enters the wheel bucket sand washer through the discharge port of the spiral sand washer. During the low-speed rotation of the water wheel, the washed sand passes through the screen on the bucket of the water wheel to remove most of the sewage, thereby reducing the moisture content of the sand and achieving a cleaning effect.
- The sand enters the high-frequency linear vibrating dewatering screen of the dewatering and recovery equipment through the discharge port of the wheel bucket sand washer for further dewatering and mud removal treatment, thus reducing the mud content

and moisture content of the finished sand. At the same time, the wastewater flowing out from the overflow ports of the spiral sand washer and wheel bucket sand washer contains a large amount of fine sand, which enters the water tank of the dewatering and recovery integrated equipment through the overflow pipeline and is transported to the high-efficiency hydrocyclone by the slurry pump. After centrifugal classification and concentration, the fine sand is discharged into the bucket of the wheel bucket sand washing equipment through the cyclone sand settling nozzle and mixed with coarse, medium and fine sand for dewatering treatment. This can fully ensure a uniform and reasonable gradation of finished sand, completely solve the problem of agglomeration of recovered fine sand, and make the finished sand of higher quality, more uniform particle gradation and cleaner.

- Meanwhile, different product structures can be designed according to the requirements of customers for raw material properties.

Features and Advantages

特点及优势

- 01

此设备针对含泥量大粘性高的砂子，具有洗砂、脱水、细砂回收等优势，能耗低，使用寿命长，安装简便，维修成本低，占地面积小等优势；
Designed for sand with high mud content and high viscosity, this equipment has the advantages of sand washing, dewatering, fine sand recovery, low energy consumption, long service life, easy installation, low maintenance cost and small floor area.
- 02

洗砂脱水一体机综合了螺旋洗砂、轮斗洗砂设备、高频直线振动脱水筛和高效水力旋流器 4 种设备的优势和特点；
The sand washing and dewatering integrated machine combines the advantages and characteristics of four types of equipment: spiral sand washer, wheel bucket sand washer, high-frequency linear vibrating dewatering screen and high-efficiency hydrocyclone.
- 03

大大降低了砂子中的泥、水、粉尘、杂质等，提高了砂子的品质；
It greatly reduces the mud, water, dust and impurities in the sand and improves the quality of the sand.
- 04

节能环保，能耗低；
Energy-saving and environmental-friendly with low energy consumption.
- 05

整机采用的是模块化组装，运输方便快捷；施工现场安装只需用螺栓将其连接好就可以；
The whole machine is assembled in a modular way, which is convenient and fast for transportation; installation at the construction site only requires bolting the components together.
- 06

故障发生率低，使用寿命长；
Low failure rate and long service life.
- 07

我可根据不同客户需求，为您量身打造特殊机型。
Our company can customize special models according to the different needs of customers.

TECHNICAL PARAMETERS

技术参数

Model 型号	Feed Particle Size(mm) 入料粒度	Spiral Diameter (mm) 螺旋直径	Wheel Bucket Diameter (mm) 轮斗直径	Hydrocyclone (set) 旋流器	High-frequency Linear Screen (mm) 高频直线筛	Sand Output (t/h) 成砂量	Water Treatment Capacity (m³/h) 处理水量	Power (kw) 功率	Weight (kg) 重量
TXS-LX12-30-1437D	≤10	1200	3000	1-2	1400*3750	30-65	50-100	47.9	12500
TXS-2LX12-32-2045X	≤10	2*1200	3200	2-4	2000*4500	80-150	120-200	96	22500
TXS-2LX12-36-2445X	≤10	2*1200	3600	2-8	2400*4500	120-180	180-300	127	28600
TXS-LX15-30-1837D	≤10	1500	3000	1-2	1800*3750	65-100	100-150	55.4	16520
TXS-2LX15-36-2445X	≤10	2*1500	3600	4-8	2400*4500	120-180	150-400	130	285200
TXS-2LX15-40-3052X	≤10	2*1500	4000	3-8	3000*5250	150-230	200-400	140.5	367300

备注：特殊配置可咨询腾宇新创公司。
Note: For special configuration, please contact TYXC Company.

TX Sand Washing, Dewatering and Recovery Integrated Machine

TX – 洗砂脱水回收一体机



Product Introduction

简介

目前，公司为了确保在水洗砂行业处于领先地位，更好的服务客户，通过走访市场及用户反馈，对现有设备进行升级换代研发出的轮式洗砂回收脱水一体机，对于含泥量 10% 以内且粘性低的物料清洗脱水后效果显著，控制成品砂的含水率，洗砂洁净度高，细砂流失少、处理能力大同时采用水力旋流分离技术，彻底去除泥砂中的淤泥、粘土等杂质，并最大限度的回收流失的细砂，此设备提高了水洗砂品质、做到了粗、细砂级配合理搭配。

At present, to maintain a leading position in the water-washed sand industry and better serve customers, our company has developed an upgraded wheel type sand washing, recovery and dewatering integrated machine through market research and user feedback on the existing equipment. It has a remarkable cleaning and dewatering effect on materials with a mud content of less than 10% and low viscosity, which can control the moisture content of finished sand with high sand washing cleanliness, low fine sand loss and large processing capacity. Meanwhile, it adopts hydrocyclone separation technology to completely remove impurities such as silt and clay from the sand and recover the lost fine sand to the maximum extent, improving the quality of water-washed sand and achieving a reasonable gradation of coarse and fine sand.

Equipment Composition

设备组成

由轮式洗砂 + 高频直线振动脱水筛 + 高效水力旋流器 + 电渣浆泵机、耐磨橡胶管及内衬聚氨酯弯头等部件组成。
It consists of wheel type sand washing unit, high-frequency linear vibrating dewatering screen, high-efficiency hydrocyclone, electric slurry pump, wear-resistant rubber pipe, polyurethane-lined elbow and other components.

Working Principle

工作原理

- 砂水混合物进入清洗箱由轮斗式砂水分离器；然后进入高频直线振动筛脱水筛做脱水处理；
- 清洗箱溢流出的废水（含大量细砂、泥浆、粉尘等杂质），经渣浆泵输送到高效水力旋流器中，然后离心分级浓缩后的细沙，经沉砂嘴排入轮斗洗砂挖斗，经旋流器沉砂嘴排入轮斗洗砂设备的挖斗里面和粗中细砂混合到一起进行脱水处理，这样可以充分保证成品砂粗细搭配均匀合理，同时可以完全回收的细砂成坨问题，成品砂的品质更高，颗粒级配更加均匀，成品砂更加干净；
- 清洗箱内的废水、泥、粉尘、杂质等，经过分离高效水力旋流器组溢流口排出进入下一环节的污水处理系统；同时也可根据客户原料性质要求设计不同产品结构。
- The sand-water mixture enters the cleaning tank and is processed by the wheel bucket sand-water separator, then enters the high-frequency linear vibrating dewatering screen for dewatering treatment.
- The wastewater overflowing from the cleaning tank (containing a large amount of fine sand, slurry, dust and other impurities) is transported to the high-efficiency hydrocyclone by the slurry pump. After centrifugal classification and concentration, the fine sand is discharged into the bucket of the wheel bucket sand washer through the sand settling nozzle, mixed with coarse, medium and fine sand for dewatering treatment. This can fully ensure a uniform and reasonable gradation of finished sand, completely solve the problem of agglomeration of recovered fine sand, and make the finished sand of higher quality, more uniform particle gradation and cleaner.
- The wastewater, mud, dust and impurities in the cleaning tank are separated and discharged through the overflow port of the high-efficiency hydrocyclone group into the sewage treatment system of the next link; meanwhile, different product structures can be designed according to the requirements of customers for raw material properties.

Features and Advantages

特点及优势

- 01

此设备具有洗沙、脱水、细砂回收等优势，能耗低，使用寿命长，安装简便，维修成本低，占地面积小等优势；
This equipment has the advantages of sand washing, dewatering, fine sand recovery, low energy consumption, long service life, easy installation, low maintenance cost and small floor area.
- 02

洗砂脱水一体机综合了洗砂机、重型直线振动脱水筛和高效水力旋流器 3 种设备的优势和特点；
he sand washing and dewatering integrated machine combines the advantages and characteristics of three types of equipment: sand washer, heavy-duty linear vibrating dewatering screen and high-efficiency hydrocyclone.
- 03

大大降低了砂子中的泥、水、粉尘、杂质等，提高了砂子的品质；
It greatly reduces the mud, water, dust and impurities in the sand and improves the quality of the sand.
- 04

节能环保，能耗低；
Energy-saving and environmental-friendly with low energy consumption.
- 05

一体设备采用模块化组装，运输方便快捷；现场安装；
The integrated equipment is assembled in a modular way, which is convenient and fast for transportation and on-site installation.
- 06

故障发生率低，使用寿命长；
Low failure rate and long service life.
- 07

我公司可根据不同客户需求，为您量身打造特殊机型。
Our company can customize special models according to the different needs of customers.

TECHNICAL PARAMETERS

技术参数

Model 型号	Feed Particle Size(mm) 入料粒度	Wheel Bucket Diameter (mm) 轮斗直径	Hydrocyclone (set) 旋流器	High-frequency Linear Screen (mm) 高频直线筛	Processing Capacity(t/h) 处理能力	Water Treatment Capacity (m³/h) 处理水量	Total Power (kw) 总功率	Weight (kg) 重量
TX-30-18-2x350	≤10	3000	2x350	1800*4500	70-90	100-150	52	91360
TX-32-20-2x350	≤10	3200	2x350	2000*4500	85-120	140-200	74	12350
TX-32-20-4x350	≤10	3200	4x350	2000*4500	85-120	195-300	82	14359
TX-36-22-2x350	≤10	3600	2x350	2200*4500	100-130	150-200	74	12475
TX-36-24-4x350	≤10	3600	4x350	2400*4500	120-150	180-280	90	16587
TX-36-24-2x350	≤10	3600	2x350	2400*5250	120-150	150-200	82	15738
TX-40-30-2x350	≤10	4000	2x350	3000*4500	175-245	145-200	92.5	22879
TX-40-30-4x350	≤10	4000	4x350	3000*6000	175-245	220-300	110	26800

备注：特殊配置可咨询腾宇新创公司。
Note: For special configuration, please contact TYXC Company.

TX-LX Series Sand Washing, Recovery and Dewatering Integrated Machine

TX-LX 系列洗砂回收脱水一体机



Product Introduction

简介

目前，公司为了确保在水洗砂行业处于领先地位，更好的服务客户，通过走访市场及用户反馈，对现有设备进行升级换代研发出的轮式洗砂回收脱水一体机，对清洗后的物料进行高效脱水，控制成品砂的含水率，洗砂洁净度高，细砂流失少、处理能力大同时采用水力旋流分离技术，彻底去除泥砂中的淤泥、粘土等杂质，并最大限度的回收流失的细砂，此设备提高了水洗砂品质、做到了粗、细砂级配合理搭配。同时该设备对含泥量非常大的泥砂处理效果非常显著。

At present, to maintain a leading position in the water-washed sand industry and better serve customers, our company has developed an upgraded wheel type sand washing, recovery and dewatering integrated machine through market research and user feedback on the existing equipment. This equipment can efficiently dewater the cleaned materials and control the moisture content of finished sand, featuring high sand washing cleanliness, low fine sand loss and large processing capacity. Meanwhile, it adopts hydrocyclone separation technology to completely remove impurities such as silt and clay from the sand and recover the lost fine sand to the maximum extent, improving the quality of water-washed sand and achieving a reasonable gradation of coarse and fine sand. In addition, it has a remarkable treatment effect on sand with a very high mud content.

Equipment Composition

设备组成

由高效旋流器组、重型直线振动脱水筛、轮斗式砂水分离器、减速机、渣浆泵、清洗箱、高位返水箱、电机、耐磨橡胶管道及内衬聚氨酯弯头等部件组成。

It consists of high-efficiency hydrocyclone group, heavy-duty linear vibrating dewatering screen, wheel bucket sand-water separator, reducer, slurry pump, cleaning tank, high-level return water tank, motor, wear-resistant rubber pipeline, polyurethane-lined elbow and other components.

Working Principle

工作原理

砂水混合物进入清洗箱；由轮斗式砂水分离器；然后进入重型直线振动筛脱水筛做脱水处理；清洗箱溢流出的废水（含大量细砂、泥浆、粉尘等杂质），经渣浆泵输送到高效水力旋流器中，然后离心分级浓缩后的细沙，经沉砂嘴排入重型直线振动脱水筛筛面；清洗箱内的废水、泥、粉尘、杂质等，经过分离高效水力旋流器组溢流口排出进入下一环节的污水处理系统；脱水筛筛面上出成品料粗砂；高效水力旋流器底流细砂同时进入粗砂上面进行脱水处理，这样可以充分保证成品砂粗细搭配均匀合理，同时大大减少回收的细砂成坨问题，成品砂的品质更高，颗粒级配更加均匀，成品砂更加干净；同时也可根据客户原料性质要求设计不同产品结构。

The sand-water mixture enters the cleaning tank and is processed by the wheel bucket sand-water separator, then enters the heavy-duty linear vibrating dewatering screen for dewatering treatment. The wastewater overflowing from the cleaning tank (containing a large amount of fine sand, slurry, dust and other impurities) is transported to the high-efficiency hydrocyclone by the slurry pump. After centrifugal classification and concentration, the fine sand is discharged onto the screen surface of the heavy-duty linear vibrating dewatering screen through the sand settling nozzle. The wastewater, mud, dust and impurities in the cleaning tank are separated and discharged through the overflow port of the high-efficiency hydrocyclone group into the sewage treatment system of the next link. Coarse finished sand is discharged from the screen surface of the dewatering screen, and the underflow fine sand of the high-efficiency hydrocyclone is discharged onto the coarse sand for simultaneous dewatering treatment. This can fully ensure a uniform and reasonable gradation of finished sand, greatly reduce the problem of agglomeration of recovered fine sand, and make the finished sand of higher quality, more uniform particle gradation and cleaner. Meanwhile, different product structures can be designed according to the requirements of customers for raw material properties.

Features and Advantages

特点及优势

- 01

此设备具有洗沙、脱水、细砂回收等优势，能耗低，使用寿命长，安装简便，维修成本低，占地面积小等优势；
This equipment has the advantages of sand washing, dewatering, fine sand recovery, low energy consumption, long service life, easy installation, low maintenance cost and small floor area.
- 02

洗砂脱水一体机综合了洗砂机、重型直线振动脱水筛和高效水力旋流器 3 种设备的优势和特点；
The sand washing and dewatering integrated machine combines the advantages and characteristics of three types of equipment: sand washer, heavy-duty linear vibrating dewatering screen and high-efficiency hydrocyclone.
- 03

大大降低了砂子中的泥、水、粉尘、杂质等，提高了砂子的品质；
It greatly reduces the mud, water, dust and impurities in the sand and improves the quality of the sand.
- 04

节能环保，能耗低；
Energy-saving and environmental-friendly with low energy consumption.
- 05

整机安装，运输方便快捷；
The whole machine is easy for installation, transportation and quick commissioning.
- 06

故障发生率低，使用寿命长；
Low failure rate and long service life.
- 07

我公司可根据不同客户需求，为您量身打造特殊机型。
Our company can customize special models according to the different needs of customers.

TECHNICAL PARAMETERS

技术参数

Model 型号	Feed Particle Size(mm) 入料粒度	Spiral Diameter (mm) 螺旋直径	Hydrocyclone (set) 旋流器	High-frequency Linear Screen (mm) 高频直线筛	Processing Capacity(t/h) 处理能力	Water Treatment Capacity (m³/h) 处理水量	Total Power (kw) 总功率
TX-LX12-1437D	≤10	1200	2x250	1400*3700	30-65	50-100	36.9
TX-2LX12-2045X	≤10	2*1200	2x350	2000*4500	80-150	120-200	81
TX-2LX12-2445X	≤10	2*1200	(2-3)x350	2400*4500	120-180	180-300	97
TX-LX15-1837D	≤10	1500	2x350	1800*3750	65-100	100-150	44.4
TX-2LX15-2445X	≤10	2*1500	(2-4)x350	2400*4500	100-180	150-400	97-115
TX-2LX15-2460X	≤10	2*1500	(2-4)x350	2400*6000	100-180	150-400	97-115
TX-2LX15-3052X	≤10	2*1500	(2-4)x350	3000*5250	150-230	200-400	104-122
TX-LX18-1845x	≤10	1800	2x350	1800*4500	80-120	120-200	59

备注：特殊配置可咨询腾宇新创公司。
Note: For special configuration, please contact TYXC Company.

TLL Series Vertical Scraper Centrifuge

TLL系列立式刮刀离心机

PRODUCT INTRODUCTION

产品介绍

TLL刮刀离心机湿煤通过入料口进入机体，经布料锥分配到筛篮与螺旋刮刀之间的空隙。在离心力的作用下，水和细颗粒透过物料层和筛网，沿上盖流入上部外壳的集水槽，然后通过排液管排出机外。煤粒则被螺旋刮刀从筛网上刮下，并推送至筛网底部，最终脱水后的煤粒通过收料漏斗排出。

The wet coal enters the machine through the feed port and is distributed to the gap between the screen basket and the spiral scraper by the distributor cone. Under the action of centrifugal force, water and fine particles pass through the material layer and screen mesh, flowing along the upper cover into the water collection trough of the upper shell and then being discharged outside the machine through the discharge pipe. The coal particles are scraped off the screen mesh by the spiral scraper and pushed to the bottom of the screen mesh. The de-watered coal particles are finally discharged through the collection funnel.



TECHNICAL FEATURES

技术特点

- 结构简单实用：运行可靠，适应性强，脱水效果好。
- 入料粒度范围广：适用于0-35mm粒级的末精煤和末中煤。
- 产品水分低：入料水分一般小于30%，处理后产品外在水分可降至5%~9%。
- 处理能力大：处理能力为50-200t/h，具体取决于入料粒度和煤质。
- 耐磨设计：易损件采用高耐磨材料防护，使用寿命长。
- 独立润滑系统：润滑系统设计合理，运行平稳，噪音低。
- 差速器可单独拆装：维修方便，齿轮精度高。
- 模块化设计：可多台设备同时使用，满足不同规模选煤厂的需求。
- Simple and practical structure: reliable operation, strong adaptability, and good dewatering effect.
- Wide feed particle size range: suitable for end coal and middlings with a particle size of 0-35mm.
- Low product moisture: the feed moisture is generally less than 30%, and the external moisture of the treated product can be reduced to 5%-9%.
- Large processing capacity: the capacity is 50-200t/h, depending on the feed particle size and coal quality.
- Wear-resistant design: wear-resistant materials are used to protect the vulnerable parts, extending their service life.
- Independent lubrication system: the lubrication system is reasonably designed, ensuring smooth operation and low noise.
- The differential can be disassembled separately: easy maintenance and high gear precision.
- Modular design: multiple units can be used simultaneously to meet the needs of different-sized coal preparation plants.

ADVANTAGES

优势

- 高效脱水、适应性强
- 经济性高：结构简单，维修方便，运行成本低。
- TLL系列立式刮刀离心机凭借其高效、可靠和经济的特点，已成为选煤厂末煤脱水的理想设备
- High-efficiency dewatering and strong adaptability
- High economy: simple structure, easy maintenance, and low operating costs.
- TLL series vertical scraper centrifuges, with its high efficiency, reliability and economy, have become the ideal equipment for coal dewatering in coal preparation plants.

TECHNICAL PARAMETERS

技术参数

Parameter Name 参数名称	Feed Particle Size(mm) 入料粒度	Feed Moisture (%) 入料水分	Processing Capacity(t/h) 处理能力	Product External Moisture(%) 产品外在水分	Screen Basket Maximum Diameter(mm) 筛篮最大直径	Screen Basket Speed(r/min) 筛篮转速	Motor Power (kw) 电机功率	Motor Speed (r/min) 电机转速	Weight (kg) 重量
TLL-700	0-13	<30	50-70	6-12	720	670	22	970	4000
TLL-900	1-13	<30	70-100	6-12	930	592	45	980	6000
TLL-1000	0-35	<30	100-150	6-12	1030	570	55	980	6800
TLL-1150	0-35	<30	150-200	6-12	1150	534	75	1480	7800
TLL-1400	0-35	<30	200-250	6-12	1400	534	110	1480	8200

GSNG High-efficiency Deep Cone Thickener

GSNG-高效深锥浓密机

INTRODUCTION

简介

高效深锥浓密机是一种用于固液分离的高效设备，广泛应用于矿业、化工、环保等领域。

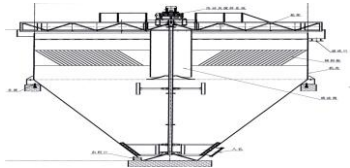
The high-efficiency deep cone thickener is an efficient solid-liquid separation device widely used in mining, chemical engineering, environmental protection, and other fields.

STRUCTURAL COMPOSITION:

结构组成

高效深锥浓密机是一种用于固液分离的高效设备，广泛应用于矿业、化工、环保等领域。

The high-efficiency deep cone thickener mainly consists of a circular thickening tank, a rake scraper, a feed device, a discharge device, and a sludge discharge system. The thickening tank is vertically conical, with a height much greater than the diameter. This design increases the sedimentation area and improves thickening efficiency.



PERFORMANCE ADVANTAGES

性能优势

- 高效浓缩：由于添加絮凝剂和深锥形设计，沉降速度加快，处理能力比传统浓密机高出3-8倍，处理能力大，底流浓度可达70%以上；
- 占地面积小：细长的池体设计使其在空间有限的场所具有优势；
- 自动化程度高：可实现智能化操作，自动监测和控制絮凝层高度、底流泵速度等；
- 节能环保：运行能耗低，溢流水清澈，可循环利用，溢流浓度：溢流浓度低，能够满足环保要求，且溢流水可以循环利用。
- **High-efficiency Thickening:** Due to the addition of flocculants and the deep cone design, the sedimentation speed is increased, and the processing capacity is 3-8 times higher than that of traditional thickeners. The underflow concentration can reach above 70%.
- **Small Footprint:** The slender tank design gives it an advantage in space-limited areas.
- **High Degree of Automation:** Capable of intelligent operation, automatic monitoring, and control of flocculant layer height, underflow pump speed, etc.
- **Energy-saving and Environment-friendly:** Low energy consumption during operation, clear overflow water that can be recycled, low overflow concentration meeting environmental protection requirements, and recyclable overflow water.

APPLICATION FIELDS

应用领域

高效深锥浓密机主要用于矿业中的矿浆浓缩、尾矿脱水及资源再利用，也可用于化工、环保等行业的颗粒料浆浓缩及废水处理。

Application Fields: The high-efficiency deep cone thickener is mainly used for pulp thickening, tailings dewatering, and resource recycling in the mining industry. It is also used for particle pulp thickening and wastewater treatment in chemical engineering and environmental protection industries.

TECHNICAL PARAMETERS

技术参数

Model 型号	Tank Diameter (mm) 池直径	Tank Depth (mm) 池深度	Sedimentation Area (m²) 沉降面积	Processing Capacity (m³/h) 处理能力	Power (kw) 功率
GSNG-3	3000	4404	21	60-70	1.1
GSNG-6	6000	8810	85	210-260	2.2
GSNG-9	9000	13500	190	340-470	4
GSNG-12	12000	17500	340	570-770	5.5
GSNG-15	15000	19080	530	660-880	6

XCF Flotation Machine

XCF浮选机



The XCF aerated mechanical agitation flotation machine is an external aeration type flotation machine.
XCF 充气机械搅拌式浮选机是一种外充气式浮选机

WORKING PRINCIPLE

工作原理

叶轮旋转时，上叶片抽吸给矿及中矿，槽内矿浆从四周槽底由叶轮下端吸入到叶轮上叶片间；同时，鼓风机给入的低压空气经分配器进入叶轮下叶片间，矿浆和空气在叶轮下叶片间充分混合后，从叶轮下叶片周边排出，与上叶片排出的矿浆一起，经定子稳流和定向后进入槽内主体矿浆中。矿化气泡上升到槽子表面形成泡沫层，部分矿浆返回叶轮下叶片循环，其余通过槽间壁流通孔进入下槽再选别。

When the impeller rotates, the upper blades draw in feed and middlings, and the pulp in the tank is sucked into the upper blades of the impeller from the bottom of the tank through the lower end of the impeller. At the same time, low-pressure air supplied by the blower enters the lower blades of the impeller through the distributor. The pulp and air are fully mixed in the lower blades of the impeller and then discharged from the periphery of the lower blades. Together with the pulp discharged from the upper blades, it enters the main pulp in the tank after being stabilized and directed by the stator. The mineralized bubbles rise to the surface of the tank to form a foam layer. Part of the pulp returns to the lower blades of the impeller for circulation, while the rest flows through the communication holes in the tank wall into the next tank for further separation.

STRUCTURAL FEATURES

结构特点

叶轮 Impeller	定子 Stator	盖板 Cover Plate
采用上下叶片结构，被圆盘分开。上叶片负责吸浆，采用辐射状平直叶片，中心区无外加充气干扰，可形成较大负压吸浆；下叶片负责循环矿浆和分散空气，形状类似 KYF 型浮选机叶轮。 The impeller has an upper and lower blade structure separated by a disc. The upper blades are responsible for drawing in pulp, using radiating flat blades. The center area is free from external aeration interference, which can create a larger negative pressure for pulp drawing. The lower blades are responsible for circulating pulp and dispersing air, with a shape similar to the impeller of the KYF type flotation machine.	采用敞开式定子，使空气能良好分散，增强吸浆能力。 An open stator is used to ensure good air dispersion and enhanced pulp drawing capability.	设置在叶轮上叶片上边，封闭上叶片，防止矿浆回流，为保证上叶片中心区形成较大负压，盖板与叶轮上叶片上端间隙一般在 5 – 10mm。 Installed above the upper blades of the impeller, it closes the upper blades to prevent pulp backflow. To ensure a larger negative pressure in the center area of the upper blades, the gap between the cover plate and the upper end of the impeller blades is generally 5-10mm.

Advantages

优势

01	02	03
具有自吸矿浆能力，可水平配置，无需泡沫泵 Capable of self-drawing pulp, can be configured horizontally, no need for foam pump.	常与 KYF 型浮选机配置成机组（XCF 型为吸入槽，KYF 型为直流槽）联合使用，能减少不同零件数量 .Often used in combination with the KYF type flotation machine (XCF type as suction tank, KYF type as direct current tank) to form a unit, reducing the number of different parts.	叶轮直径小、圆周速度低，可降低功率 30 – 50% Small impeller diameter and low peripheral speed, reducing power consumption by 30-50%.
04	05	06
空气分散均匀，能使固体颗粒充分悬浮 Uniform air dispersion ensures full suspension of solid particles.	U 型槽结构可减少尾砂沉淀 U-shaped tank structure reduces tailings sedimentation.	叶轮结构及叶片间隙流道设计合理，叶轮、定子使用寿命长。 Rational design of impeller structure and blade gap flow channels, ensuring long service life for the impeller and stator.

广泛应用于以下领域

The drum sand washer is widely used in the following fields:

 1 金属矿 METAL	 2 浮选厂 Flotation plant
广泛用于有色金属、黑色金属、非金属矿物的选别 Widely used in the separation of non-ferrous metals, ferrous metals, and non-metallic minerals	适用于大、中型浮选厂的粗选和扫选作业 suitable for roughing and scavenging operations in large and medium-sized flotation plants.

TECHNICAL PARAMETERS

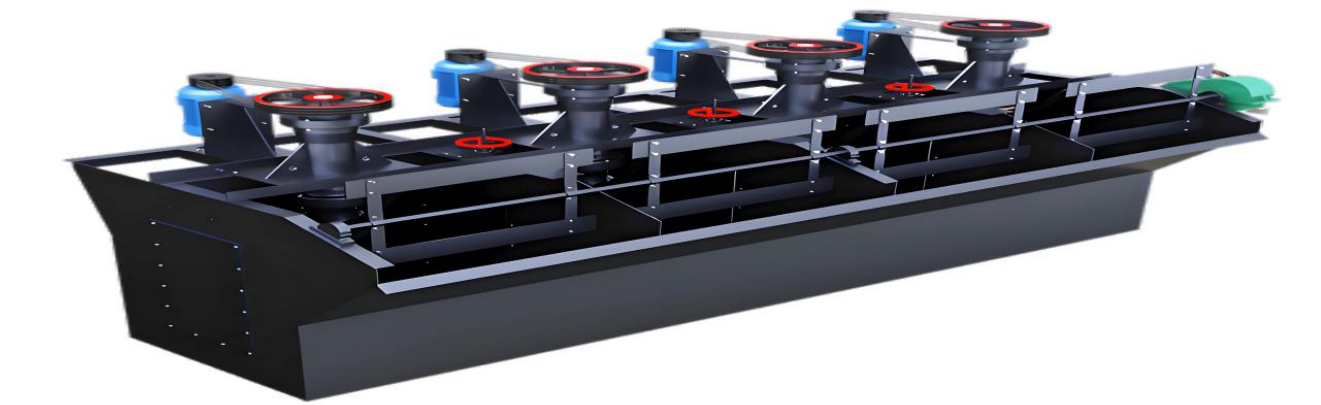
技术参数

Model	Effective Volume (m³)	Capacity (m³/min)	Impeller Diameter (mm)	Impeller Speed (r/min)	Blower Pressure (kpa)	Maximum Aeration Rate (m³/m² min)	Agitation Power (kw)	Scraper Power (kw)	Weight of Single Tank (kg)
型 号	有效容积	处理能力	叶轮直径	叶轮转速	鼓风机风压	最大充其量	搅拌功率	刮板功率	单槽重量
XCF-1	1	0.2-1	400	358	≥12.6	2	5.5	1.1	1154
XCF-2	2	0.2-2	470	305	≥14.7	2	7.5	1.1	1659
XCF-3	3	0.6-3	540	206	≥19.8	2	11	1.5	2259
XCF-4	4	1.4-4	620	225	≥19.8	2	15	1.5	2669
XCF-8	8	3-8	720	185	≥21.6	2	22	1.5	3968
XCF-16	16	4-16	860	160	≥25.5	2	37	1.5	6520

备注：XCF-1需充气，可自吸；XCF-2矿浆能力，可水平设置，不需要泡沫
Note:XCF-1Inflatable, self-priming,XCF-2The pulp capacity can be set horizontally without foam.

KYF Flotation Machine

KYF–浮选机



INTRODUCTION

简介

KYF 浮选机适用于大、中型选矿厂粗选和精选作业，可对有色金属、黑色金属、非金属矿物进行选别，入选物料粒度范围一般为 0.3 – 0.01mm（-0.074mm 粒级含量>50%）。

he KYF flotation machine is suitable for roughing and cleaning operations in large and medium-sized ore dressing plants. It can be used for the separation of non-ferrous metals, ferrous metals, and non-metallic minerals. The particle size range of the feed material is generally 0.3-0.01mm (-0.074mm particle size content > 50%).

STRUCTURAL COMPOSITION

结构组成

主要由叶轮、定子、主轴、轴承体、空气调节阀和槽体等构成。

Mainly consists of the impeller, stator, main shaft, bearing body, air regulator, and tank.

WORKING PRINCIPLE

工作原理

叶轮旋转时，槽内矿浆从四周经槽底由叶轮下端吸入到叶轮叶片间 同时，由鼓风机输入的低压空气经风道、空气调节阀、空心主轴进入叶轮腔的空气分配器，再通过分配器周边的孔进入叶轮叶片间。矿浆与空气在叶轮叶片间充分混合后，从叶轮上半部周边排出，排出的矿浆向斜上方运动，经安装在叶轮四周斜上方的定子稳定和定向后，分散至整个槽体。矿化气泡上升到槽体表面形成泡沫层，自流到泡沫槽；矿浆一部分返回叶轮区再循环，另一部分通过槽间壁上的流通孔进入下一个槽体继续选别。

When the impeller rotates, the pulp in the tank is sucked into the impeller blades from the bottom of the tank through the lower end of the impeller. At the same time, low-pressure air supplied by the blower enters the air distributor through the air duct, air regulator, and hollow main shaft, and then enters the impeller chamber through the air distributor. The pulp and air are fully mixed in the impeller blades and then discharged from the upper part of the impeller. The discharged pulp moves diagonally upward and is stabilized and directed by the stator installed diagonally above the impeller, dispersing throughout the tank. The mineralized bubbles rise to the surface of the tank to form a foam layer, which flows into the foam tank. Part of the pulp returns to the impeller area for recirculation, while the other part flows through the communication holes in the tank wall into the next tank for further separation.

EQUIPMENT FEATURES

设备特点

节能降耗 Energy-saving and consumption reduction 叶轮直径小，圆周速度低，功率小。 Small impeller diameter, low peripheral speed, and low power consumption.	空气分散均匀 Uniform air dispersion 能使空气预先较均匀地分布在叶轮叶片区域，提高空气分散度。 Enables pre-distribution of air more evenly in the impeller blade area, improving air dispersion.	固体悬浮效果好 Good solid suspension 叶轮的离心泵作用可让固体颗粒充分悬浮。 The centrifugal pump action of the impeller ensures full suspension of solid particles.
减少尾砂沉积 Reduced tailings sedimentation U 型槽体结构可使尾砂沉淀最少。 The U-shaped tank structure minimizes tailings sedimentation.	部件寿命长 Long component life 叶轮结构及叶片间隙流道设计合理，叶轮、定子使用寿命长。 Rational design of the impeller structure and blade gap flow channels ensures long service life for the impeller and stator.	浮选指标高 High flotation index 能使矿粒较好地悬浮，有利于提高浮选指标。 Better suspension of mineral particles is conducive to improving the flotation index.

TECHNICAL PARAMETERS

技术参数

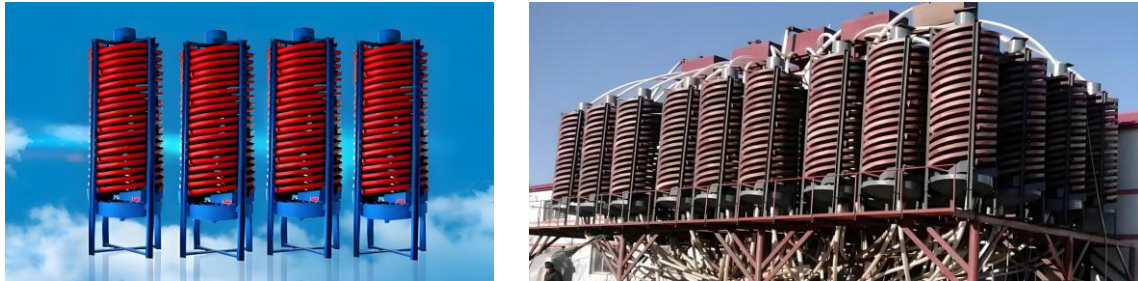
Model	Effective Volume (m³)	Capacity (m³/min)	Impeller Diameter (mm)	Impeller Speed (r/min)	Blower Pressure (kpa)	Maximum Aeration Rate (m³/m²·min)	Agitation Power (kw)	Scraper Power (kw)	Weight of Single Tank (kg)
型号	有效容积	处理能力	叶轮直径	叶轮转速	鼓风机风压	最大充其量	搅拌功率	刮板功率	单槽重量
KYF-1	1	0.2-1	340	281	≥12.6	2	4	1.1	800
KYF-2	2	0.4-2	410	247	≥14.7	2	5.5	1.1	1400
KYF-3	3	0.6-3	480	219	≥19.8	2	7.5	1.5	1900
KYF-4	4	1.2-4	550	200	≥19.8	2	11	1.5	2200
KYF-8	8	3-8	630	175	≥21.6	2	15	1.5	4200
KYF-16	16	4-16	740	160	≥25.5	2	30	1.5	6000
KYF-24	24	6-24	800	153	≥30.4	2	37	1.5	8400

备注：KYF-1需充气，无自吸矿浆能力，需阶梯配置，可与 XCF 型配成机组

Note:Requires aeration, no self-drawing pulp capability, needs to be configured in steps, can be used in combination with the XCF type to form a unit.

LL Spiral Chute

LL–螺旋溜槽



PRODUCT INTRODUCTION

产品介绍

螺旋溜槽是一种新型的重力选矿设备，综合了螺旋选矿机、摇床、离心选矿机的优点，主要用于分选粒度在0.3 0.02毫米的细粒矿物。广泛用于分选铁矿、钛铁矿、铬铁矿、硫铁矿、钨矿、锡矿、钽铌矿等多种金属矿石，以及海滨、河滨砂矿和金矿石等。

Spiral chutes are a new type of gravity ore dressing equipment that combines the advantages of spiral ore dressing machines, shaking tables, and centrifugal ore dressing machines. They are mainly used for the separation of fine-grained minerals with particle sizes ranging from 0.3 to 0.02 millimeters. They are widely used for the separation of various metal ores, such as iron ore, ilmenite, chromite, pyrite, tungsten ore, tin ore, tantalum-niobium ore, and beach, river sand ores, and gold ores.

STRUCTURAL COMPOSITION

结构组成

螺旋溜槽主要由分矿斗、给矿槽、螺旋槽、槽钢支架等组成。螺旋槽由玻璃钢制成，内表面涂有耐磨层，通常为聚氨酯橡胶或掺入金刚砂的环氧树脂。

Spiral chute is mainly composed of ore distributor, ore feeder, spiral chute and channel steel bracket. The spiral groove is made of glass fiber reinforced plastic, and its inner surface is coated with a wear-resistant layer, usually polyurethane rubber or epoxy resin mixed with emery.

EQUIPMENT FEATURES

设备特点

高效选矿 Efficient Ore Dressing 通过重力和离心力作用，实现矿物的高效分离。 Achieves efficient separation of minerals through gravity and centrifugal force.	适应性强 Strong Adaptability 对给矿量、浓度、粒度和品位波动适应性强。 Adaptable to fluctuations in feed quantity, concentration, particle size, and grade.	结构简单 Simple Structure 无运动部件，维护方便，使用寿命长。 No moving parts, easy maintenance, and long ervice life.
节能环保 Energy Saving and Environmental Protection 无需动力，耗水量少，适应性强。 No power required, low water consumption, and strong adaptability.	适应性广 Wide Applicability 适用于多种矿物，如铁矿、钛铁矿、金矿、石英砂等。 Suitable for various minerals, such as iron ore, ilmenite, gold ore, and quartz sand.	富集比高 High Enrichment Ratio 选矿富集比高，回收率高 High ore dressing enrichment ratio and recovery rate.

TECHNICAL PARAMETERS

技术参数

Model 型 号	Spiral Diameter (mm) 螺旋直径	Pitch (mm) 螺距	Distance To Diameter Ratio 距径比	Cross Dip 横向倾角	Installation Head Count 安装头数	Feed Particle Size (mm) 给矿粒度	Feed Particle Size (%) 给矿浓度	Processing Capacity (t/h) 处理能力	Long Wide Tall (mm) 外形尺寸长宽高	Weight (kg) 重量
5LL-2000	2000	1200	0.6	9°	3	2.00–0.04	30-55	7-10	2120*2120*5600	900
5LL-1500	1500	720/540	0.48/0.36	9°	4	0.8–0.037	30-60	6-8	1600*1600*5300	800
5LL-1200	1200	900/720/540	0.75/0.6/0.45	9°	4	0.3–0.03	25-35	4-6	1360*1360*5230	600
5LL-900	900	675/540/405	0.75/0.6/0.45	9°	4	0.3–0.03	25-55	2-3	1060*1060*4000	400
5LL-600	600	450/360/270	0.75/0.6/0.45	9°	2	0.2–0.02	25-55	0.4-0.8	700*700*2600	150
5LL-400	400	240/180	0.6/0.45		2	0.2–0.02	25-55	0.15-0.2	460*460*1500	50