

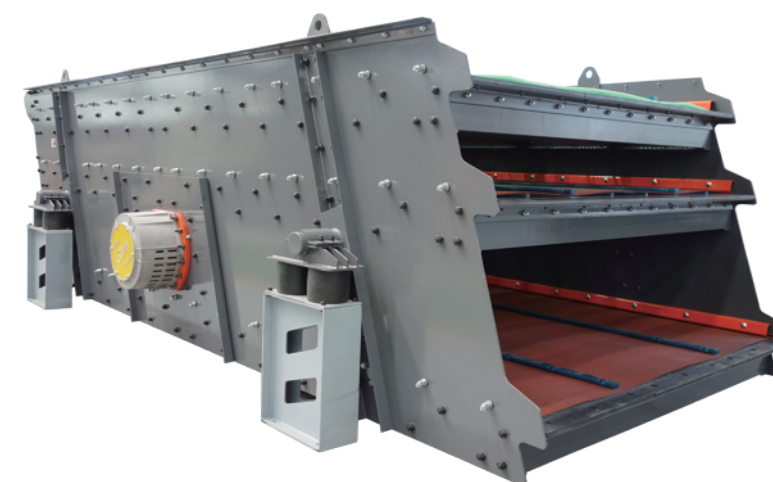


中英V1-P1-1606

S5X 系列振动筛

S5X Series Vibrating Screen

——卓越的振动筛分设备——
New Excellent screening equipment



上海西芝矿山工程机械有限公司
Shanghai Zenith Mining and Construction Machinery Co., Ltd.

Tel: 0086-21-58386256 58386258

Web: <http://www.zenithcrusher.com>

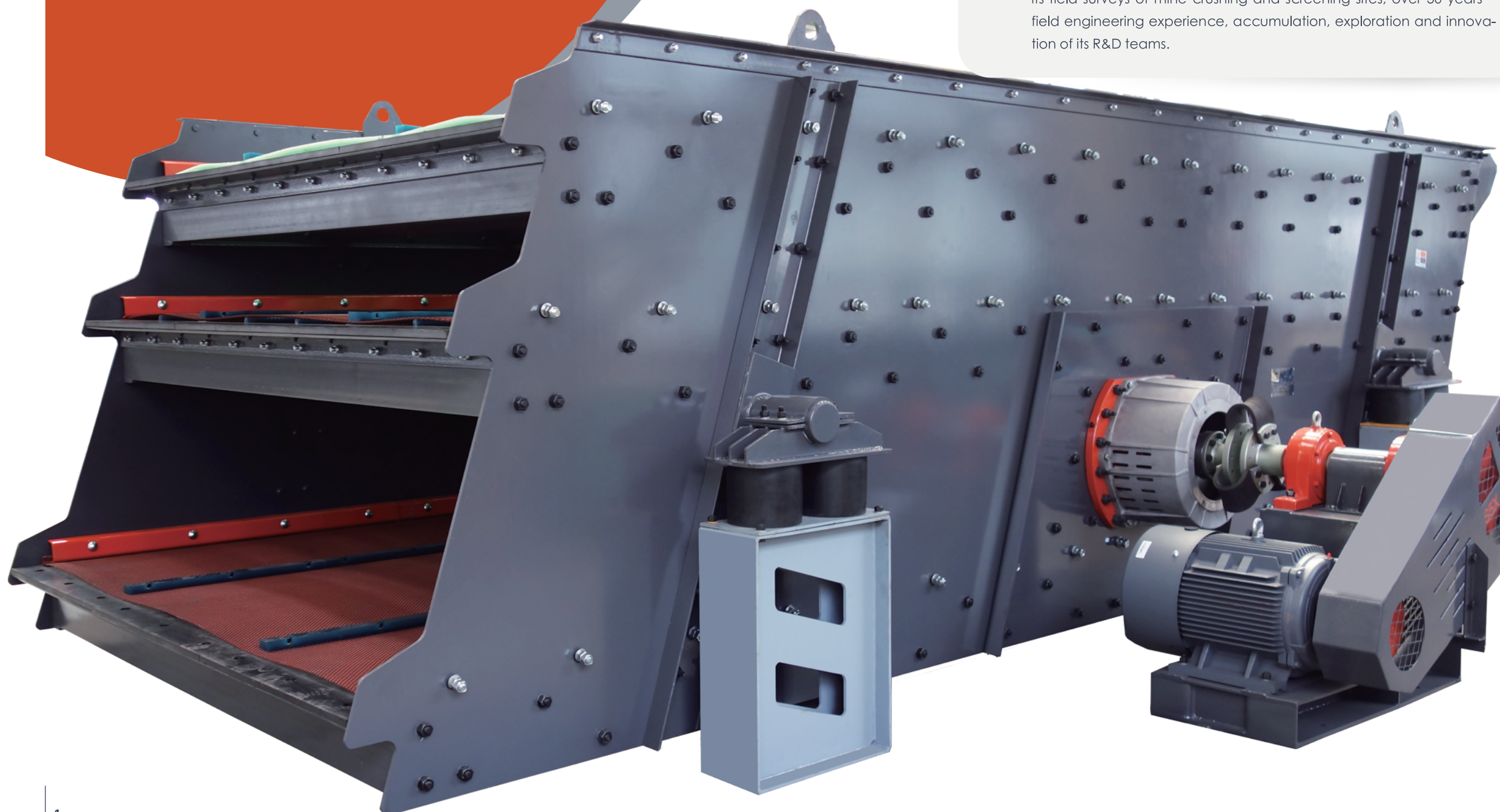
E-mail: info@zenithcrusher.com

Add: No.416 Jianye road, South Jinqiao Area,
Pudong New Area, Shanghai, China

Fax: 0086-21-58355887

卓越的振动筛分设备

New Excellent screening equipment



为解决传统振动筛效率低、寿命短、污染大等问题，上海西芝矿山工程机械有限公司作为世界领先的石料和矿物加工设备供应商，经过数千家矿山破碎筛分现场的实地调查、30余年的实地工程经验、研发工程师团队多年积累探索创新，成功打造出完美解决传统振动筛问题、实现客户理想需求的S5X系列振动筛。

To solve such problems of the traditional vibrating screens as low efficiency, short service life and serious pollution, Shanghai Zenith Mining and Construction Machinery Co., Ltd. as the world's leading supplier of stone and mineral processing equipment, has successfully created the S5X screens which can perfectly solve the problems of traditional vibrating screens and meet customers' ideal demands by its field surveys of mine crushing and screening sites, over 30 years' field engineering experience, accumulation, exploration and innovation of its R&D teams.

当用于重型、中型和精细筛分等各种筛分作业，初级破碎、二级破碎和成品料筛分时，S5X系列振动筛无疑代表了当今最先进的振动筛分技术和制造工艺水平。S5X系列振动筛整体均采用创新性的模块化设计、有限元动态分析框架结构，因而赋予设备最大的抗疲劳性、最佳的可靠性；结合高振动强度、SV激振器，就充分保证了设备在振动筛分作业时的高产、高效、低成本。

When used for heavy or medium duty, fine and other screening operations as well as for primary crushing, secondary crushing and finished material screening, the S5X screens undoubtedly represent the most advanced vibrating and screening technology and manufacturing level. On the whole, the S5X screens have adopted an innovative modular design and a finite element dynamic analysis framework, thus maximizing the fatigue resistance and reliability of the equipment; in addition, the high vibration intensity and SV vibrator can fully guarantee the high yield, high efficiency and low costs during operating.

作为一款了解用户需求的新型振动筛分设备，无论是您想达到低投入高收益的目标、还是想延长设备的使用寿命、或者是减少设备维修时的麻烦、更甚至是满足政策对矿山开采时的环保要求，您都可以从S5X系列振动筛中找到最佳的解决方案、最非同一一般的设备体验。

In a word, as a model of screening equipment closest to users' needs, whether low-input and high-yield objectives, to extend the equipment service life, to reduce troubles during equipment maintenance or even to satisfy the environmental requirements on mining operation, you can get the best solution and the most extraordinary equipment experience from S5X series vibrating screens.

先进的设计理念及核心技术

Advanced design concepts and core technology

SV模块化激振器可靠、高效、便捷

The SV Safer / Faster / Easier

1、整体拆装设计

尺寸设计非常紧凑，这种浓缩设计使得SV激振器不仅拥有巨大的激振力，同时可以整体安装于侧板内孔中，免除了更换单个轴承的麻烦，整体拆装更换只需一小时，更换维护非常便捷。

2、更长的轴承使用寿命

相比轴偏心式双轴承设计，4套轴承能提供更高的承载和更长的使用寿命，且偏心块产生的激振力通过侧板厚度中心，侧板的受力状况更理想。SV标配有铝合金外罩，轴承的散热更为理想。

3、更大的振动强度

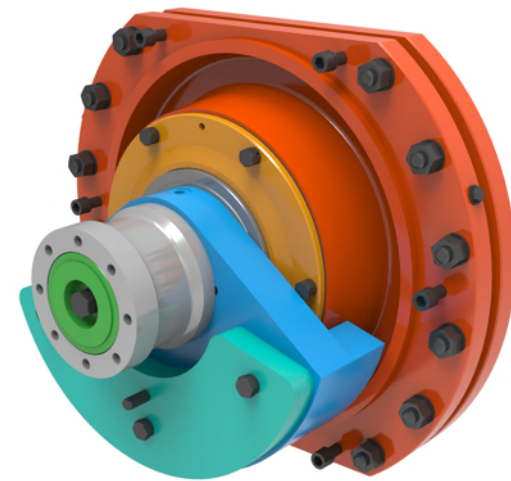
SV超能激振器的振动强度设计达到国际先进水平，使得振动筛的通过量大、筛分效率高、处理能力强。

4、更方便的振幅调节

可以通过增减标准配重块的数量，方便的调整振动筛振幅，这是所有振动设备中最便捷的振幅调整方式。

5、脂润滑系统

轴承采用油脂润滑，特殊的迷宫设计，简单可靠，无稀油泄露的风险。您还可以选配自动注脂装置，根据现场工况制定合适的润滑计划，满足更高的应用要求。



1. Real cartridge design

This encapsulated design creates a no-bearing change-out environment. It is a true cartridge that is capable of being removed and a new unit installed within one hour, drastically reducing costs.

2. Longer bearing service life

Four bearings on each shaft line provide a longer bearing life and are capable to handle larger load with lower operation costs. The bearings are located at the center of the side plate which makes the load distributed evenly along side plates. Aluminum end cap is standard for SV, so the bearings boast good heat dissipation.

3. Super power

Super power and a high G-force are of the world advanced and assure easy separation, high efficiency and big capacities achieved.

4. Easy stroke adjustment

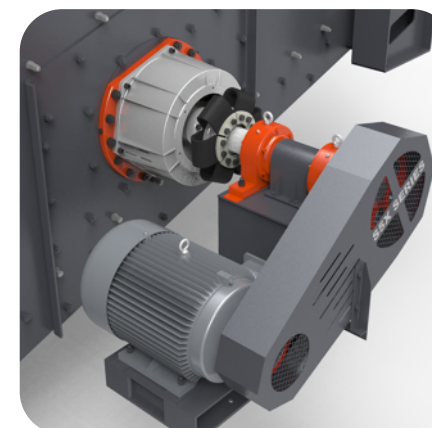
The lightweight aluminum end cap is easily removed by hand for a quick stroke adjustment. This is the easiest stroke adjustment in the industry!

5. Grease lubrication system

All the bearings are lubricated by grease with special labyrinth seals which are workable to avoid leakage or contamination. An automatic lubrication appliance could be optional for some operation requirements according to customer demand.

挠性传动

Flexible drive



1.电机通过V带驱动传动轴承座，然后挠性驱动振动筛，相比于电机直接驱动或通过V带驱动振动筛，更能保护电机不受蛮力冲击，同时V带的寿命也 longer。也可以通过更换皮带轮来方便的调节振动筛转速，以满足不同块度物料的筛分。

1.The pulley and V-belts on a stationary base used for speed adjustment to satisfy different screening application, and the flexible shaft joint used for connecting to the vibrator. This kind of design arrangement is greatly protect the motor from vibrating harm.

2.驱动与激振器联接采用挠性传动，使力矩的传动没有轴向力的传递，从而使振动筛的运行更加稳定。

2.A flexible shaft joint is taken to connect the motor and the vibrator, and this makes the screen run smoothly without shaking force from the motor.

专业领先的工艺技术

Leading professional technology

S5X系列振动筛的优秀源于其设计和制造材料，即使是最微小的细节也做到了尽善尽美，以保证设备功能最强、且可靠性最高。

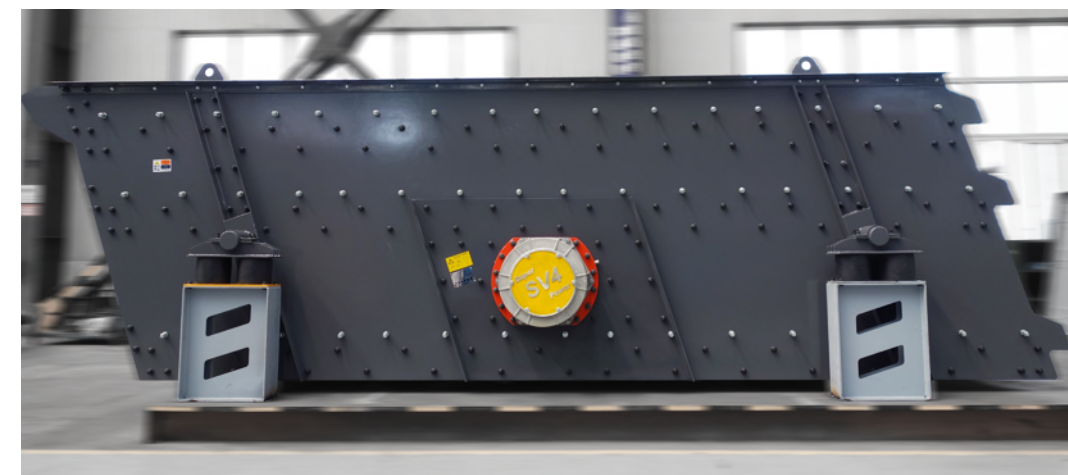
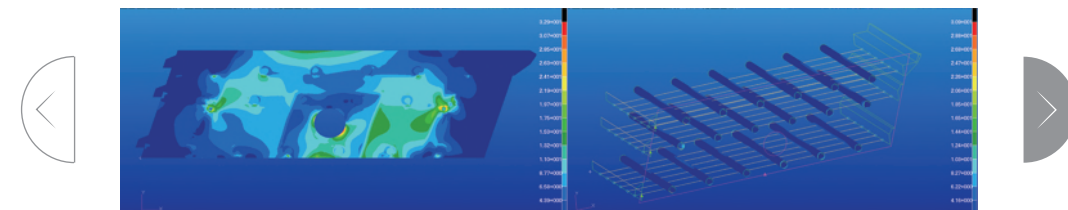
S5X series excel due to its design, manufacturing technology and materials; even the smallest details are perfectly to ensure that the equipment is the most powerful and highest reliability.

有限元动态分析 无应力缺陷

Finite element dynamic analysis --- no stress defects

S5X系列振动筛采用有限元动态模拟分析软件设计，侧板上不存在任何形式的焊接，所有加强构件布置合理，确保设计的强度和重量均衡、疲劳应力控制在安全范围内，避免了设备存在焊接应力导致的侧板开裂隐患。

The S5X series vibrating screens are designed by using the finite element dynamic simulation analysis software, so there is no any welding on the side bar and all stiffeners are reasonably arranged, which can ensure the design strength, weight equilibrium and fatigue stress be controlled within the scope of the security, very safe and reduce possible fatigue stress.

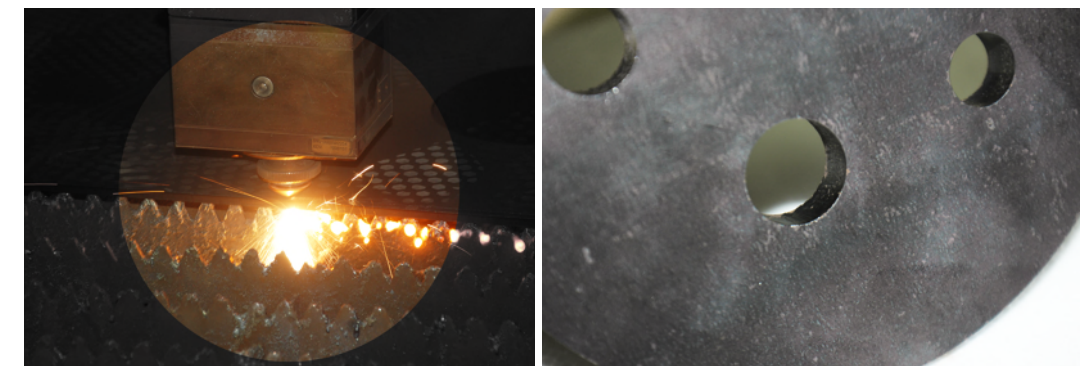


数控全自动切割 美观精准

CNC automatic cutting - beautiful and accurate

侧板采用数控全自动下料切割，包括所有小孔，切割面非常光滑，无批缝产生，孔的位置度高，比依靠人工画线钻孔更加美观精准。

The side bar of the S5X adopts automatic CNC cutting, including all small holes. The cut surfaces are fairly smooth with no seams occurring and the holes are high and fabricated more beautifully and accurately than drilled relying on manual line drawing.



高振动强度 高筛分性能

High G and high performance

振动强度是衡量振动筛性能的关键指标，S5X系列振动筛因采用先进的设计理念和制造工艺，振动筛拥有高振动强度，振动筛在同规格情况下，比传统设备处理能力更大、筛分效率更高，因此可以在处理同等物料的情况下缩短运行时间、减少投资成本。

Thanks to the use of advanced design and manufacturing technology, S5X with high performance, boasts a greater capacity, higher screening efficiency and lower operating costs than traditional screens.



国际标准的高精尖配置

*Internationally
- standard sophisticated configurations*

应对重型工况的扭剪型高强度螺栓

High Tensioned Bolts provided for extra heavy duty

筛箱结构件之间的连接全部采用钢结构用扭剪型高强度螺栓，比环槽铆钉连接强度高，更换方便，同时避免因铆接不当造成的螺栓孔出现微裂纹现象，即使是在艰苦的工况下也能够保证最大的可靠性。

High Tensioned Bolts are used to tighten screen side bars and crossbeams without welding cracks happened.



理想的轴承承载

The ideal bearing load

所有S5X系列振动筛都装配SV激振器，每台设备采用两套SV激振器、四套振动机械专用轴承承担负荷，能提供更高的承载和更长的使用寿命。

All S5X series vibrating screens are equipped with SV vibrators, each device adopts two sets of SV vibrators and four sets of special bearings for vibratory machinery to bear the load, which can provide higher load and longer service life.

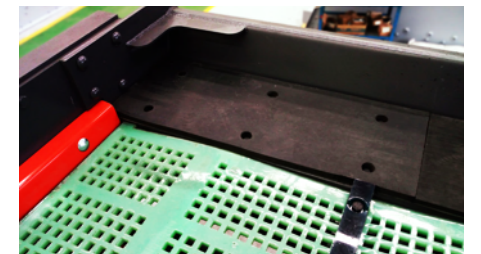


耐磨损耐冲击的橡胶衬板

Rubber liners -- wear-resistant impact-resistant

整机配置入料斗及橡胶衬板，提升有效的筛分面积，同时还能够起到缓冲物料冲击和防磨损的作用。

S5X equipped with feed box and rubber liner, which can increase the effective screening area and simultaneously buffer the material impact and prevent abrasion.



延长振动筛寿命的横梁防护包板

Extra deck protection with wear-resistant steel that can extend the service life of the vibrating screen

为了避免传统振动筛管梁因无防护而导致的磨穿断裂情况，S5X系列振动筛配置横梁防护包板，能够最大限度的保护管梁不受物料冲刷磨蚀，延长整体振动筛使用寿命。

In order to avoid wear and fractures of beams on the traditional vibrating screens due to no protection, the S5X series vibrating screens are configured with beam protective wrappers, which can protect the hollow beam against material erosion and abrasion to uttermost extent and prolong the service life of the screen.



符合环保要求的材料与理念

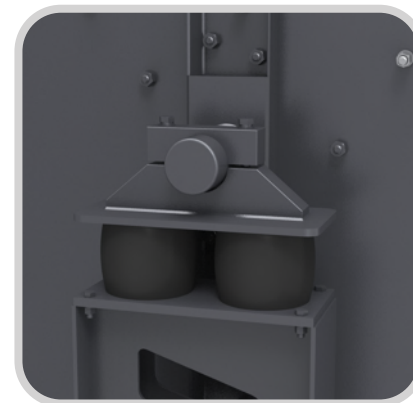
*Environmentally
friendly materials and ideas*

橡胶弹簧支撑 噪音低

Rubber spring - Low noise

振动筛支撑采用橡胶弹簧，与金属弹簧相比，具有使用寿命长、耐腐蚀，运行平稳、噪音低、对地基冲击小等优点。

Rubber suspension arrangements have numerous benefits over steel springs, such as smoother start-up and shut-down, low load on foundation, low noise and no risk on operators.



脂润滑方式 现场干净

Grease lubrication -clean site

相较于传统振动筛采用稀油润滑方式导致的漏油污染现象，S5X系列振动筛使用脂润滑方式，作业现场非常干净，无稀油泄露的风险。

Thanks to grease lubrication, compared to the traditional oil lubrication S5X application field is very clean and no risk of thin oil leakage.

全密封设计 高环保

Fully sealing design, excellent in environmental protection

振动筛设计采用高环保设计理念，可以根据用户需求配置后端防尘密封和顶部防尘罩等，确保设备满足高环保应用要求。

The vibrating screens are designed based on the concept of excellent environmental protection. The back-end dust sealing and top dust cover, etc. can be configured according to user requirements to ensure it could meet high environmental requirements.

模块化通用设计 降低您的运行成本

*Modular design
-- reduce your operating costs*

S5X系列振动筛不但操作性能好，还能够通过模块化通用设计有效降低运行成本。模块化的设计使得用户的备件种类减少，通用化程度更高，同时维护点也非常少。

The S5X can offer good operation performance and simultaneously reduce operation costs effectively by means of the modular design. The modular design allows the user to reduce the types of spare parts, enjoy higher generalization degree and have fewer maintenance points at the same time.

1、模块化的梁框架，筛箱强度分布更合理。

1. The modular beam frame can make the screen intensity be distributed more reasonably.

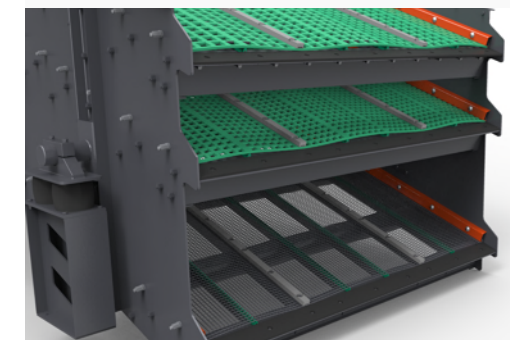


3、模块式的筛网张板、聚氨酯压条、筛面支撑条等通用于所有规格振动筛。

3. The modular side tension clamps, mesh depression bars and support bars, etc. can match all specifications screens.

2、模块式激振器，可以整体快速的从筛箱上拆装更换。

2. The modular vibrator can allow rapid disassembling and replacement from the screen as a whole.



4、大层距，方便维护及更换筛网。

4. The large headroom between decks is much convenient for maintenance or media replacement.

S5X系列标准圆振动筛 选择使用说明

S5X Standard Circular Motion Model MODEL SELECTION

- 一般情况下适用于入料≤200mm，且分级粒度2mm~70mm的典型筛分作业，如：石料生产、再生利用、化工等；
 - 筛网可选择金属编织筛网、橡胶筛网或聚氨酯筛网等；
 - 用户在订货时，除注明型号、数量外，还须注明筛孔尺寸、筛网形式和供电环境；
 - 电动机可以在左侧或右侧安装，如有安装要求请注明，标准按左装形式供货。
- S5X standard model is suitable for general screening in aggregate production, recycling and chemical industries when feed ≤200mm, or separation size: 2mm to 70mm;
- Screening media matched includes wire mesh, rubber and polyurethane;
- Screening media, hole size, Power condition except model and quantiry would be required when ordered;
- The standard motor installation is on the left, for installations on the right should be informed at first.

技术参数 • Technical Parameters

型号	筛面规格	筛面层数	倾角(°)推荐(范围)	振动次数(RPM)		双振幅(mm)	功率(kW)	处理能力(t/h)	筛孔尺寸(mm)	
Model	Size W×L(mm)	No.of decks	Inclination (°) recommend (range)	Oper. Speed (RPM)		Stroke (mm)	Power (kW)	Capacity (t/h)	Mesh size (mm)	
S5X1230-2	1200×3000	2	18(18-25)	800-900		7-12	11	25-200	2-70	
S5X1545-2	1500×4500	2	18(18-25)	800-900		7-12	11	45-380	2-70	
S5X1545-3	1500×4500	3	18(18-25)	800-900		7-12	15	45-380	2-70	Note: The capacities given are based on a bulk density of 1.6 metric tones per cubic meter and dry screening.
S5X1845-2	1800×4500	2	18(18-25)	800-900		7-12	15	60-450	2-70	
S5X1845-3	1800×4500	3	18(18-25)	800-900		7-12	22	60-450	2-70	
S5X1860-2	1800×6000	2	18(18-25)	800-900		7-10	15	75-600	2-70	
S5X1860-3	1800×6000	3	18(18-25)	800-900		7-12	30	75-600	2-70	
S5X1860-4	1800×6000	4	18(18-25)	800-900		7-12	37	75-600	2-70	
S5X2160-2	2100×6000	2	18(18-25)	800-900		7-12	22	85-700	2-70	
S5X2160-3	2100×6000	3	18(18-25)	800-900		7-12	30	85-700	2-70	
S5X2160-4	2100×6000	4	18(18-25)	800-900		7-11	37	85-700	2-70	
S5X2460-2	2400×6000	2	18(18-25)	800-900		7-12	22	100-800	2-70	
S5X2460-3	2400×6000	3	18(18-25)	800-900		7-11	30	100-800	2-70	注：表内所列最大处理量是按对松散密度为1.6t/m3的金属矿石进行干式分级给定的，所列处理量仅供参考。
S5X2460-4	2400×6000	4	18(18-25)	800-900		7-10	37	100-800	2-70	
S5X2760-2	2700×6000	2	18(18-25)	800-900		7-12	30	120-900	2-70	
S5X2760-3	2700×6000	3	18(18-25)	800-900		7-11	37	120-900	2-70	

标准配置有： Standard configurations include

入料斗及橡胶衬板	5mm横梁护板	国产一类振动筛专用轴承、国产品牌节能高效电机	金属编织筛网
Feed box and rubber liner	Extra deck protection with 5 mm steel plate	local TWB special bearings for vibratory machinery, local brand energy-efficient motor	Screening media with wire mesh

选装配置有： Options

进口电机ABB/WEG或西门子	SKF/FAG振动筛专用轴承	防尘罩	冲水装置	自动润滑装置	聚氨酯筛网或橡胶筛网
ABB or WEG electric motor	SKF or FAG bearings	Dust encapsulation	Spray pipes	Automatic greasing unit	rubber or polyurethane screening media

S5X系列重型圆振动筛

选择使用说明

S5X Heavy Circular Motion Model

MODEL SELECTION

- 一般情况下适用于入料≤300mm，且分级粒度2mm~150mm的典型筛分作业，如：金属矿山、石料初段筛分、煤炭筛分等；
 - 筛网可选择金属编织筛网、橡胶筛网、聚氨酯筛网、钢板冲孔、轻轨等；
 - 用户在订货时，除注明型号、数量外，还须注明筛孔尺寸、筛网形式和供电环境；
 - 电动机可以在左侧或右侧安装，如有安装要求请注明，标准按左装形式供货。
- T serial heavy screens are recommended for applications of primary duty, heavy tough operations in aggregate production, metallurgy, meta lmine, coal etc. with big bulk densities or feed top-size 300mm, separation size ranging 2mm to 150mm;
- Screening media matched includes wire mesh, rubber, polyurethane, steel plate and steel bar grizzly;
- Screening media, hole size, Power condition except model and quantiry would be required when ordered;
- The standard motor installation is on the left, for installations on the right should be informed at first.

技术参数 • Technical Parameters

型号	筛面规格	筛面层数	倾角(°)推荐(范围)	振动次数(RPM)		双振幅(mm)	功率(kW)	处理能力(t/h)	筛孔尺寸(mm)	
Model	Size W×L(mm)	No.of decks	Inclination (°) recommend (range)	Oper. Speed (RPM)		Stroke (mm)	Power (kW)	Capacity (t/h)	Mesh size (mm)	
S5X1545T	1500×4500	1	18(18-25)	800-900		8-12	15	60-550	2-150	
S5X1545T-2	1500×4500	2	18(18-25)	800-900		8-12	22	60-550	2-150	
S5X1845T	1800×4500	1	18(18-25)	800-900		8-12	15	70-675	2-150	Note: The capacities given are based on a bulk density of 1.6 metric tones per cubic meter and dry screening.
S5X1845T-2	1800×4500	2	18(18-25)	800-900		8-12	22	70-675	2-150	
S5X1860T-2	1800×6000	2	18(18-25)	800-900		8-12	30	80-800	2-150	
S5X1860T-3	1800×6000	3	18(18-25)	800-900		8-12	30	80-800	2-150	
S5X2160T	2100×6000	1	18(18-25)	800-900		8-12	22	105-1050	2-150	
S5X2160T-2	2100×6000	2	18(18-25)	800-900		8-12	30	105-1050	2-150	
S5X2160T-3	2100×6000	3	18(18-25)	800-900		8-12	37	105-1050	2-150	
S5X2460T	2400×6000	1	20(18-25)	800-900		8-12	30	120-1200	2-150	
S5X2460T-2	2400×6000	2	20(18-25)	800-900		8-12	37	120-1200	2-150	
S5X2460T-3	2400×6000	3	20(18-25)	800-900		8-12	45	120-1200	2-150	
S5X3060T	3000×6000	1	20(18-25)	800-900		8-11	30	150-1500	2-150	注：表内所列最大处理量是按对松散密度为1.6t/m3的金属矿石进行干式分级给定的，所列处理量仅供参考。
S5X3060T-2	3000×6000	2	20(18-25)	800-900		8-11	45	150-1500	2-150	
S5X3072T-2	3000×7200	2	20(18-25)	800-900		8-11	2×37	180-1820	2-150	
S5X3072T-3	3000×7200	3	20(18-25)	800-900		8-11	2×37	180-1820	2-150	
S5X3675T-2	3600×7500	2	22(18-25)	800-900		8-11	2×45	180-1820	2-150	
S5X3675T-3	3600×7500	3	21(18-25)	800-900		8-11	2×45	225-2249	2-150	

标准配置有： Standard configurations include

5mm横梁护板	FAG/SKF振动筛专用轴承、国产品牌节能高效电机
Extra deck protection with 5 mm steel plate	SKF or FAG bearings are standard, local brand energy-efficient motor

选装配置有： Options

进口电机ABB/WEG或西门子	防尘罩	冲水装置	自动润滑装置	二次隔震架(仅限特殊应用)
ABB or WEG electric motor	Dust encapsulation	Spray pipes	Automatic greasing unit	vibration isolation frame(for special duty)