Screening Equipment

JUST SHRED IT, THUS SORT IT.

Contact Harden for professional shredding and recycling solutions.

HARDEN MACHINERY LTD.

Address: XingDa Street, Torch Development Zone, Zhongshan city, China

Email: info@hardenmachinery.com Tel: +86-760-8993 5422

Web: www.harden-shredder.com

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About Us

Founded in 2010, HARDEN MACHINERY LTD. is the expert in design and manufacturing of industry shredders, sorting machines and processing lines for various types of solid waste disposal. With its advanced technology, R&D capability, quality products and excellent after-sale service, HARDEN has become one of the leading companies in solid waste recycling industry in Asia and globally.

Core Advantages of Harden

- Leading enterprise for solid waste processing in China
- Cooperates with European companies
- Full ranges of products
- Famous brand configuration for core components
- The largest R&D scale for solid waste processing in China
- More than 10 years experience in waste industry
- Perfect solutions for solid waste
- More than 1,400 cases domestic and overseas

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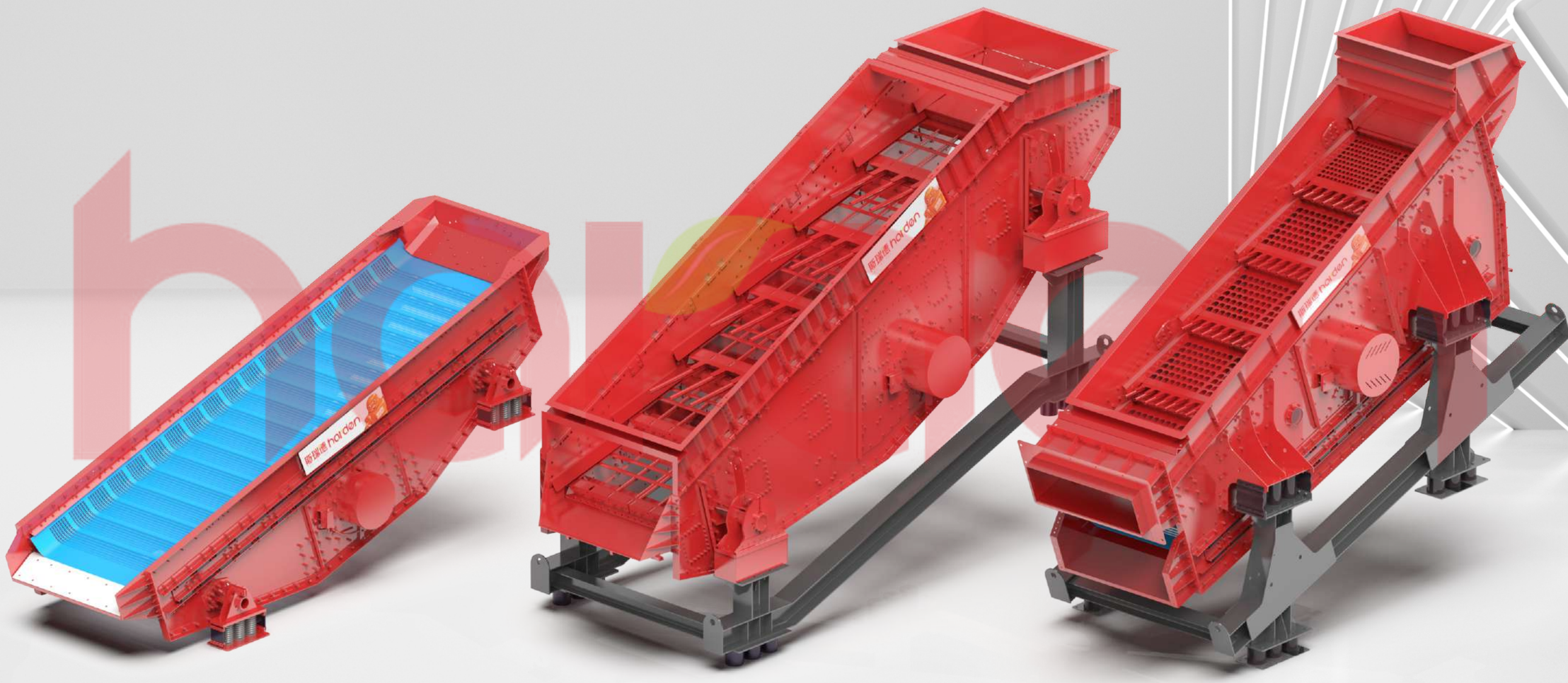


Filp-flow Screen

Step Screen

Combi Screen

Filp-flow Screen

According to the principle of mechanical vibration, a single drive is used to generate dual vibrations, so that the dynamic screen plate obtains extremely high acceleration through tension and relaxation deformation. It is suitable for difficult-to-screen materials, especially materials with high wet viscosity that are prone to clogging and jamming. , the flexible screen plate and relaxation effect have very powerful screening efficiency and anti-blocking performance.

Capacity

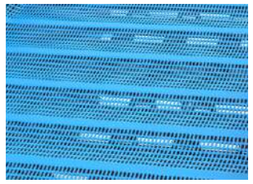
20-25m³/h

Good at handling wet and sticky materials

Technical Parameters

Model	SZS-F1652
Drive Power	22kw
Screening Area	1600*5200mm
Machine Dimension	6800*3600*2100mm
Machine Weight	6.7t
Capacity	20-25m³/h

Product Feature

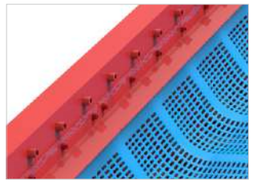


Dynamic Flip-flow Plate

The relaxation-moving screen has an acceleration that exceeds that of traditional screen machines, effectively prevents clogging and adhesion, and has a strong self-cleaning effect. It is especially suitable for fine screening of difficult-to-screen materials.

Thin Oil Lubrication

The exciter bearing adopts double sealing and thin oil lubrication, which effectively extends the bearing life and makes maintenance easier.



Modular Design

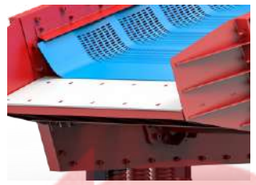
The screen is fixed without screws, and the quick-release design allows for rapid on-site replacement of modular structural components, which facilitates maintenance and replacement and can be flexibly adjusted according to the production line.

Convenient Adjustment

According to the material characteristics, vibration parameters can be quickly adjusted on site.

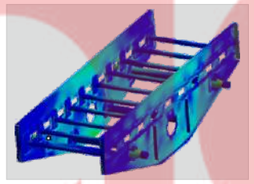
Performance Optimization

Special instruments are used to monitor and adjust various performance indicators before leaving the factory to ensure that the equipment reaches optimal operating status.



Optional Multi-layer Design

According to actual screening requirements, double-layer or even multi-layer relaxation screens can be customized to achieve a variety of particle size classifications.



Structural Optimization

The reinforced screen machine structure improves vibration fatigue life and overall reliability. The finite element method is used to make the structural design more reasonable, avoid resonance, and have better stability.

Smooth Start And Stop

Minimize start-stop shaking and reduce instantaneous impact on the screen machine and foundation. At the same time, the starting current of the motor is limited to reduce the power supply pressure of the factory.

Typical application range

Decoration Waste

Biomass Waste

Industrial Waste

MSW

E-Waste

Waste Plastic

Landfill Mining

Incineration Residue

Step Screen

The step vibrating screen is based on the principle of mechanical vibration. The exciter provides the excitation force to drive the screen plate to vibrate in a circle. The materials are stratified and transported under the vibrating projection of the screen machine. Materials smaller than the mesh size fall down and are transported, which is complete particle size classification.

Capacity

80-100m³/h

Good at pre-screening of bulky materials

Technical Parameters

Model	SZS-S2060
Drive Power	45kw
Screening Area	2000*6000mm
Machine Dimension	7800*4200*5600mm
Machine Weight	13t
Capacity	80-100m³/h

Product Feature

Bulky Waste Handling

The larger opening and specially designed screen mesh are especially suitable for pre-screening of large-sized waste, while minimizing the possibility of missed selection, incorrect selection and clogging of stuck waste, and improving screening efficiency.

Thin Oil Lubrication

The exciter bearing adopts double sealing and thin oil lubrication, which effectively extends the bearing life and makes maintenance easier.

Modular Design

The structural components are modular, which facilitates maintenance and replacement and can be flexibly adjusted according to the production line. Different forms of screens can also be replaced according to material characteristics.

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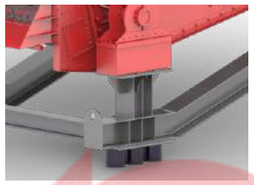
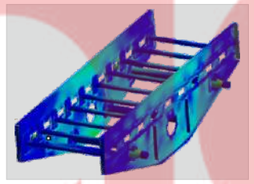


Secondary Isolation

The impact on the screen box is reduced, the vibration transmission to the ground is smaller, and the service life of the equipment is longer.



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Combi Screen

The combi vibrating screen organically combines the two single screening technologies of the flip-flow screen and the ladder screen into one, so that one piece of equipment can achieve two screening effects at the same time.

Based on the principle of mechanical vibration, this equipment uses a single excitation source to provide excitation force, and simultaneously drives the upper and lower screening plates to produce different forms of vibration. The upper screening plate is in circular vibration, and the lower screening plate is in relaxation motion. Under the action of the vibration projection of the machine, stratification and transportation are realized. Materials smaller than the mesh size fall down and complete the particle size classification.

Capacity

60-80m³/h

Finer Screening, Space Saving

Technical Parameters

Model	SZS-C1660
Drive Power	45kw
Screening Area	1600*6000mm
Machine Dimension	7200*4000*6200mm
Machine Weight	15t
Capacity	60-80m³/h

Product Feature

Double Screening Effect

The ladder screen and the flip-flow screen are organically combined into one, so that one piece of equipment can achieve two screening effects at the same time, greatly saving the space of conveying equipment, steel structures,etc.

Thin Oil Lubrication

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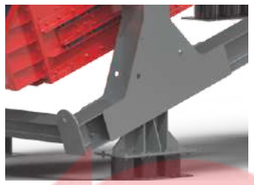
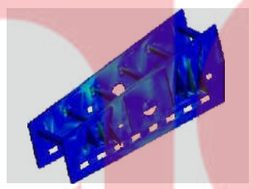


Secondary Isolation

Further reduce the vibration transmitted to the ground and reduce the impact on other equipment in the factory and production line.



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