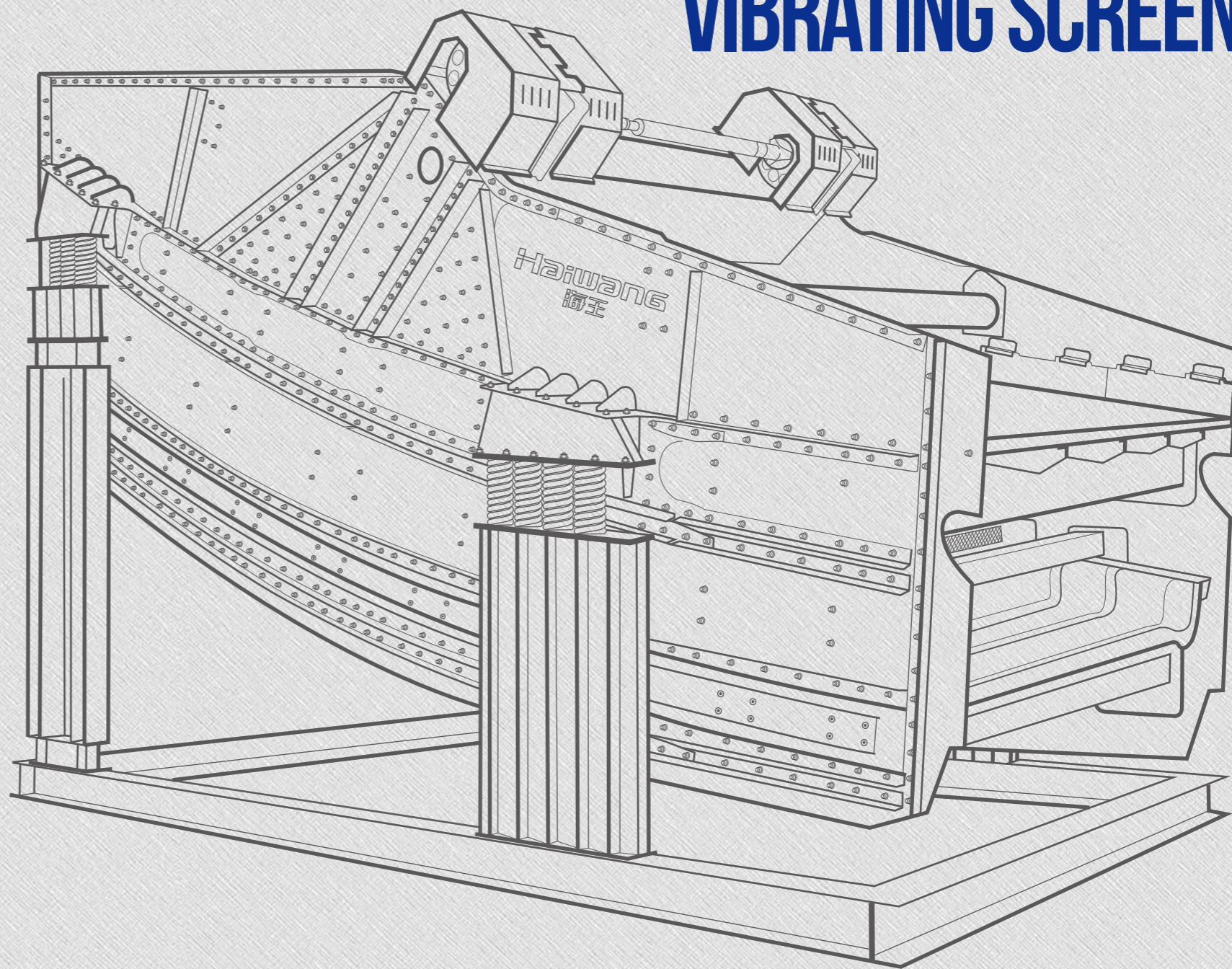


HAIWANG VIBRATING SCREEN

Haiwang
海王

让分离更高效
Better Separation



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Website



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Weihai Haiwang Technology Co., Ltd.
Weihai Haiwang Hydrocyclone Co., Ltd.

Haiwang, specializing in the R & D, manufacture and technical service of separation equipment for over 30 years.



150000 m²
Production base area

30000 sets
Annual capacity of cyclones

3000 sets
Annual capacity of vibrating screen

3000 m²
Experimental base area

20000 m²
Spare parts warehouse area

About us

Weihai Haiwang Technology Co., Ltd. is the worldwide leading separation technology R & D and equipment manufacturing base. By adhering to the concept of "Better Separation", Haiwang is committed to providing advanced technology, high efficient equipment and superior service for users in mining, coal, sand aggregate, electric power environmental protection, petroleum, chemical and the other industries to assist users for the sustainable development. The products are far ahead in the domestic marketing share, and have been exported to mote than 60 countries, including Australia, Russia, Peru and India, etc. Haiwang has established the international branch companies including Neptune Mineral Co., Ltd in Russia and Helicon Mining Services Pty Ltd in Australia, and also the agencies in America, Peru, Chile, South Africa, India and Mongolia, etc. over 10 countries, thus to provide local service for clients all over the world conveniently.

Certifications

- EU CE certification
- ISO9001
Quality management system certification
- ISO14001
Environment management system certification
- OHSAS18001
Occupational health and safety management system certification

Innovation Platforms

- Shandong academician workstation
- Shandong province postdoctoral innovation experimental base
- Shandong cyclone separation engineering technology research center
- Shandong province recognized enterprise technology center
- Shandong one enterprise one technology R & D center
- Shandong industrial design center
- Shandong engineering research center
- National torch plan key high-tech enterprise

Research ability



1

1 national technological invention prize



3

3 Industrial standards drafted by the company



8

8 Innovation platforms above provincial level



200

200 Proprietary intellectual property rights



80

80 Senior engineers



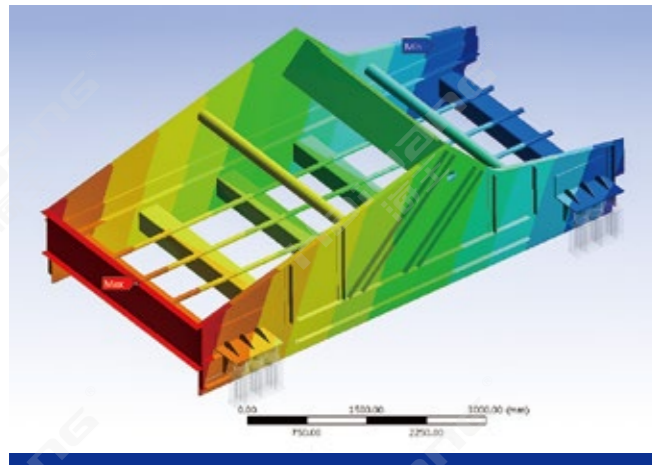
150

150 Professional technicians



Product Design

Haiwang vibrating screen adopts heavy load design, with higher reliability and security.



Individualized Design

Individualized design can be realized according to the material and operation condition of each client, thus to meet the actual application requirements.

Finite Element Analysis Design

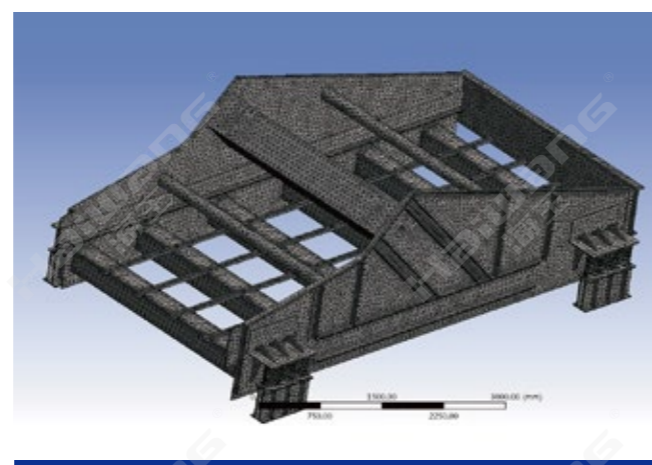
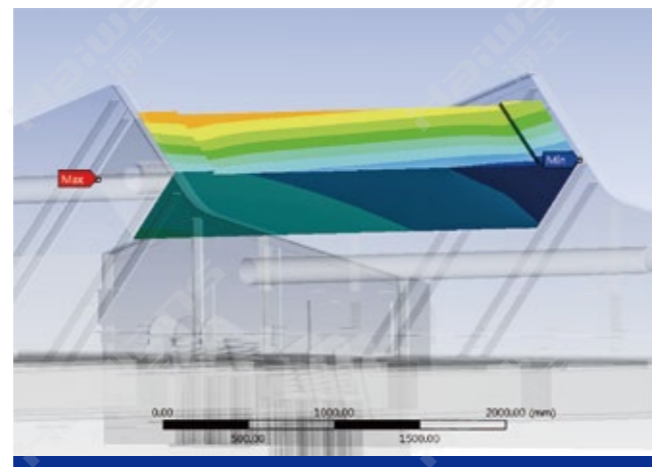
Optimize the structural strength and weight of screen in maximum by finite element analysis, reducing stress and lengthening the operation lifespan of equipment.

Virtual Prototype Design

Virtual prototype design is made before the production of each set of vibrating screen. The hazardous working range of vibrating screen can be found and avoided in advance.

Flexible design

With better adaptability, it can work normally when processing non-uniform feeding materials.



Product Manufacture

Haiwang vibrating screens use steel material of superior quality, and adopt leading equipment and technology in the industry for material preparation, welding, heat treatment, machining, surface treatment, assembly, test and quality control processes, including the domestic leading processing equipment and production line, such as high power fiber cutting machine, automatic welding robot, shot blasting & derusting assembly line, and painting robot, which realize complete automatic manufacturing process, and guarantee the product quality and production efficiency comprehensively.



Product Features

- The side plate is processed by laser CNC, with high mirror symmetry. The strengthen plate and side plate are connected by Hooke bolts without welding joints;
- Main beam and side plate of the screen are connected by Hooke bolts. The sealing treatment on connection surface can avoid metal corrosion in humid or corrosive environment;
- The screen body is overall shot blasting treated. The heavy anti-corrosive paint protection can improve the resistance to corrosion;
- The screen adopts customized steel spring, or rubber spring or rubber composite spring, with better vibration isolation effect;
- Welding joints of the vibration beam are of full penetration welding, which will be carried out NDE test to guarantee no defects in the welding joints. The heat treatment after welding will relieve the welding stress;
- The bottom beam is wear-resistant, corrosion-resistant and impact-resistant. The Hooke bolt connection between crossbeam and screen panel rail beam can save maintenance cost;
- The vibrating screen is equipped with high efficient vibration exciter. The heavy load design can adapt various extreme operating condition with low noise operation. The exciting force can be adjusted by balancing weight;
- The high quality screen panels have higher screening efficiency, longer lifespan and lower spare parts cost.

Product Application

Haiwang vibrating screens cover the key processes such as crushing and screening, powder removal, desliming, de-watering, medium removal, and slag separation, etc. The screens have been widely used in industries such as resources, energy, and environmental protection.

ZKJ

Linear Screen with Double Exciting Motors



Technical Features

- Driven by double exciting motors;
- Overall profile design for the main beam with complete stress relief;
- Wear resistant polyurethane screen panels with modular installation;
- The bottom horizontal beam adopts overall profile design, and the surface is protected with wear resistant material.

Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKJ0918	2.2	1.8x2
2ZKJ0918	2.2x2	1.8x2
ZKJ1127	3.2	2.4x2
ZKJ1135	4.1	2.4x2
ZKJ1224	3.6	2.4x2
2ZKJ1224	3.6x2	2.4x2
ZKJ1530	5.5	3.0x2
ZKJ1837	7.3	5.8x2
2ZKJ1837	7.3x2	7x2
2ZKJ1845	8.3x2	7x2
ZKJ2136	9.0	7x2
ZKJ2436	9.7	7x2
ZKJ2445	11.2	11x2
ZKJ2448	13.4	11x2

Note: The installed power may vary according to the operation condition.

ZKX

Linear Screen with Side-mounted Symmetrical Vibration Exciter



Technical Features

- Side-mounted symmetrical vibration exciter. Flexible connection between motor and exciter, and the motor does not vibrate;
- Adopting wear resistant polyurethane screen panel. The modular installation allow partial replacement for partial abrasion, which will generate lower spare parts cost;
- Rubber spring is selectable, which has better damping and sound insulating performance.

Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKX1536	6.0	5.5x2
ZKX1837	7.3	7.5x2
ZKX1845	8.1	7.5x2
ZKX2136	9.0	7.5x2
ZKX2436	9.7	7.5x2
ZKX2445	11.2	11x2
ZKX3061	18.6	22x2
ZKX3661	21.9	30x2

Note: The installed power may vary according to the operation condition.

ZKF

Linear Screen with Four Side-mounted Exciting Motors



ZKK

Series Single-layer Horizontal Linear Screen with Box Type Vibration Exciters



Technical Features

- Four sets of three years maintenance-free side-mounted vibration motors are used as vibration source. The exciting motors do not need lubrication oil within 3 years for normal operation, which can save time and service;
- The compact structure occupies smaller floor area;
- Universal shaft is used to synchronize two vibration motors without transferring large torque, which ensures long service life.

Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKF1837	7.3	3.06x4
ZKF2136	9.0	4.35x4
ZKF2436	9.7	4.35x4
ZKF2445	11.2	4.35x4

Note: The installed power may vary according to the operation condition.

Technical Features

- Adopting box type vibration exciter of high vibration force, with high screening efficiency and large capacity;
- With features of large stiffness, high strength and uniform stress.

Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKK2136	7.81	22
ZKK2436	8.93	22
ZKK2448	11.90	22
ZKK2461	14.88	22
ZKK3061	18.60	30/45
ZKK3642	15.62	30/45
ZKK3648	17.86	30/45
ZKK3661	22.32	30/45
ZKK3673	26.79	37/45
ZKK4361	26.05	45/55
ZKK4373	31.25	55/75

Note: The installed power may vary according to the operation condition.

2ZKK

Double-layer Horizontal Linear Screen with Box Type Vibration Exciters



ZKB

Single-layer Banana Screen with Box Type Vibration Exciters



Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
2ZKK2461	14.88x2	45
2ZKK3048	14.88x2	45
2ZKK3061	18.60x2	55
2ZKK3661	22.32x2	55
2ZKK3673	26.79x2	90
2ZKK4361	26.05x2	90

Note: The installed power may vary according to the operation condition.

Technical Features

- Adopting box type vibration exciter of high vibration force, with higher screening efficiency and larger capacity;
- The material layer is evenly distributed. Screen deck with Continuous multi-angle design;
- Can replace traditional arrangement combination of arc screen and linear screen.

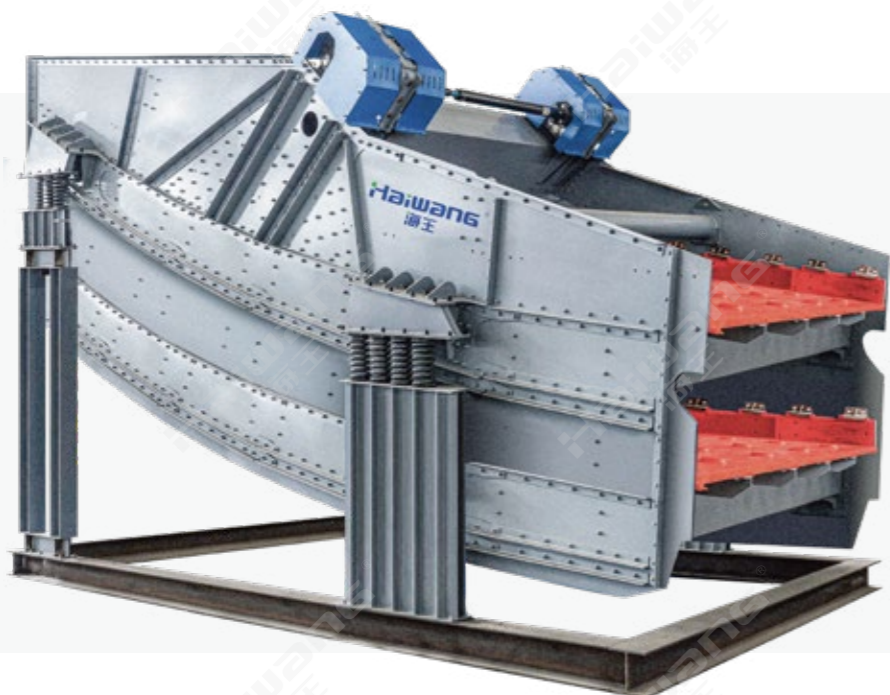
Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKB2461	14.88	22
ZKB3061	18.60	30/45
ZKB3661	22.32	30/45
ZKB3673	26.79	30/45
ZKB4361	26.05	55
ZKB4373	31.25	55

Note: The installed power may vary according to the operation condition.

2ZKB

Double-layer Banana Screen with Box Type Vibration Exciters



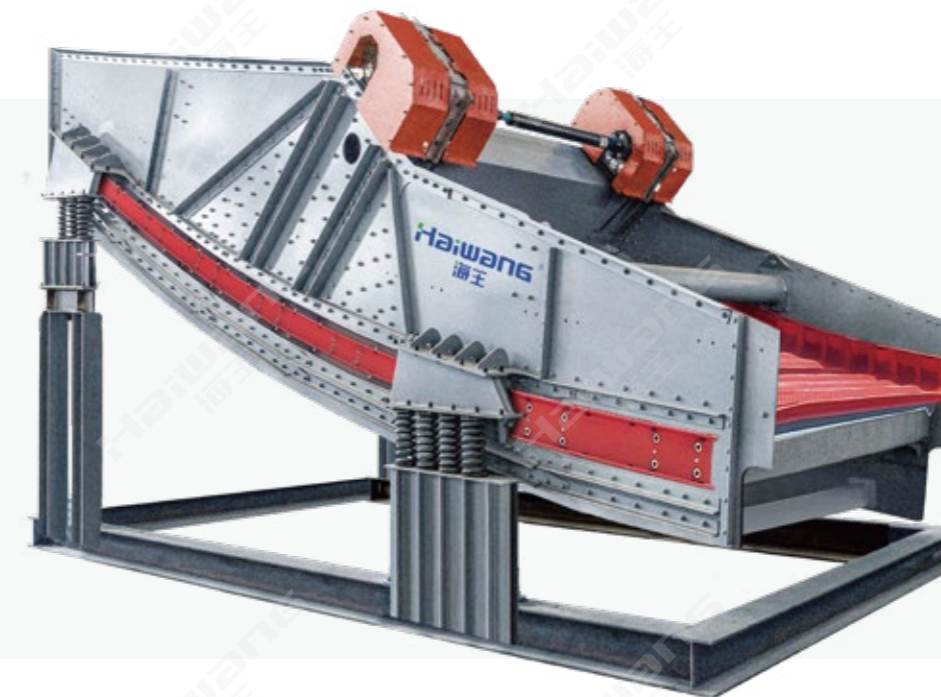
Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
2ZKB2461	14.88x2	30
2ZKB3061	18.60x2	55
2ZKB3661	22.32x2	55
2ZKB3673	26.79x2	55
2ZKB4373	31.25x2	90
2ZKB4385	36.46x2	90

Note: The installed power may vary according to the operation condition.

ZKB/C

Single-layer Flip-flow Screen with Box Type Vibration Exciters



Technical Features

- The high-elasticity and high-abrasion-resistance screen mesh continuously "alternate tension with relaxation", which can realize the self-cleaning of screen mesh, and the screen aperture is not easy to be blocked.
- The screen mesh is thin, with high aperture ratio, large processing capacity and high screening efficiency.

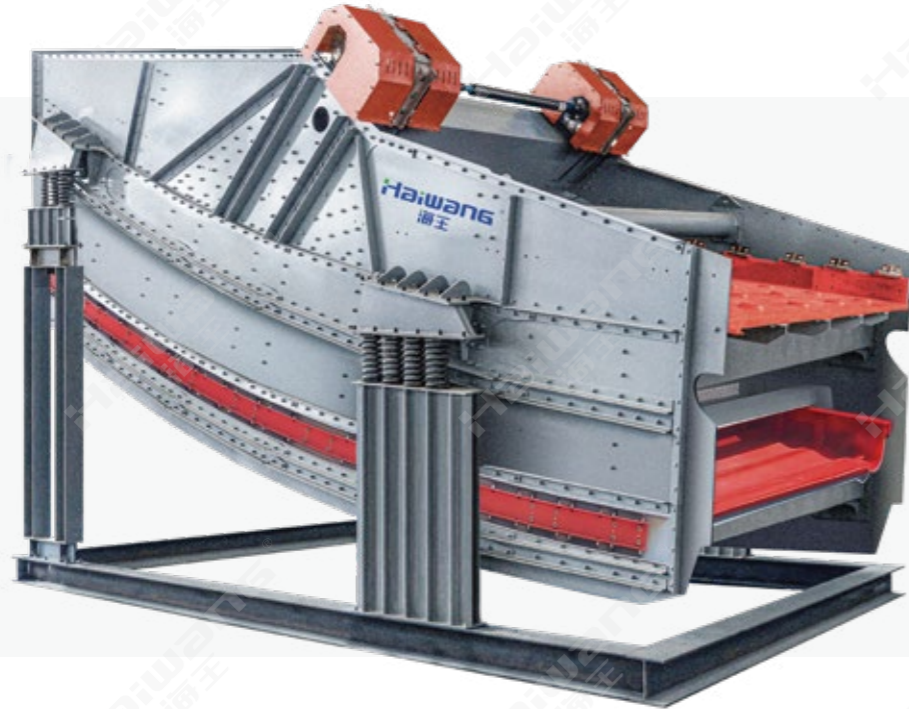
Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKB2461/C	14.88	22
ZKB3061/C	18.60	30
ZKB3661/C	22.32	45
ZKB3673/C	26.79	45
ZKB3685/C	31.25	45
ZKB36100/C	35.72	55
ZKB4373/C	31.25	55
ZKB4385/C	36.46	75

Note: The installed power may vary according to the operation condition.

2ZKB/C

Double-layer Flip-flow Screen with Box Type Vibration Exciters



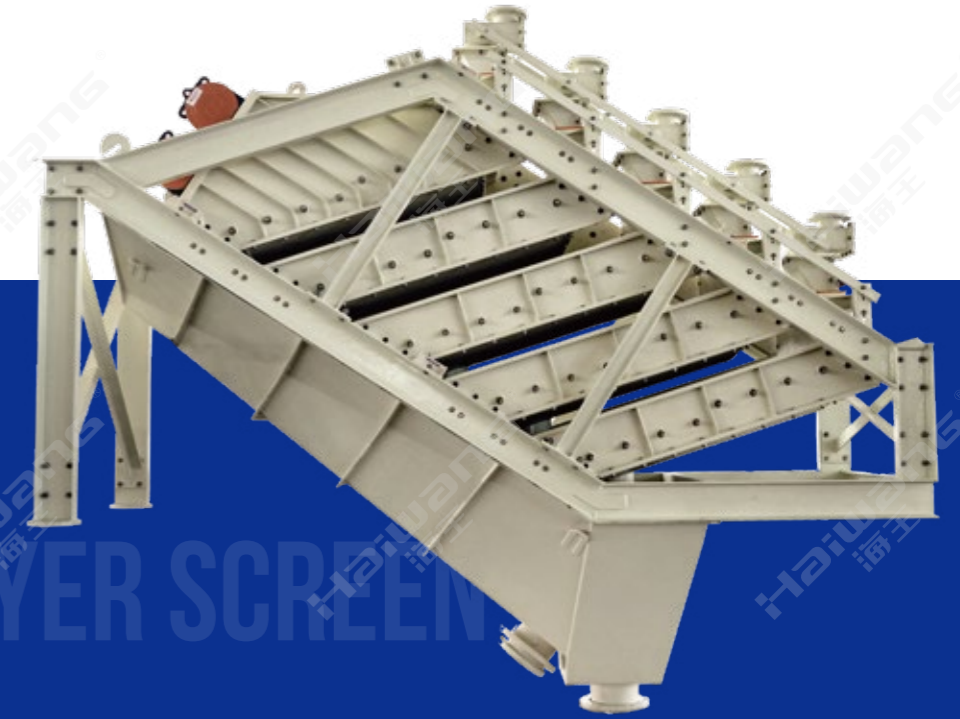
Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
2ZKB2461/C	14.88x2	30
2ZKB3061/C	18.60x2	55
2ZKB3661/C	22.32x2	55
2ZKB3673/C	26.79x2	55
2ZKB3685/C	31.25x2	75
2ZKB36100/C	35.72x2	75
2ZKB4373/C	31.25x2	90
2ZKB4385/C	36.46x2	90

Note 1: The installed power may vary according to the operation condition.
Note 2: The lower layer can be the flip-flow type, or both the two layers can be the flip-flow type.

ZKJ-D

Multi-layer Screen



Technical Features

- The multi-layer design can realize 10-way feeding in parallel, occupying small floor area and having large capacity;
- Aperture ratio of the flexible wear resistant polyurethane screen mesh is up to 32~45%, with lifespan over 6 months;
- Imported anti-shearing suspension support springs are adopted for the screen main body, which ensures almost no vibration on the screen support.

ZKJ1007-D Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKJ1007-D1/4	2.9	1.8x2
ZKJ1007-D2	2.9	1.8x2
ZKJ1007-D3	4.4	1.8x2
ZKJ1007-D4	5.8	1.8x2
ZKJ1007-D5	7.3	1.8x2
ZKJ1007-D10	14.6	3.2x2
ZKJ1007-D1/3	2.1	1.8x2
ZKJ1007-D2/3	4.3	1.8x2
ZKJ1007-D3/3	6.5	1.8x2
ZKJ1007-D4/3	8.7	1.8x2
ZKJ1007-D5/3	10.9	1.8x2

Note: The installed power may vary according to the operation condition.

ZKJ1208-D Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKJ1208-D1/4	4.1	1.8×2
ZKJ1208-D2	4.1	1.8×2
ZKJ1208-D3	6.2	1.8×2
ZKJ1208-D4	8.3	1.8×2
ZKJ1208-D5	10.4	1.8×2
ZKJ1208-D1/3	3.1	1.8×2
ZKJ1208-D2/3	6.2	1.8×2
ZKJ1208-D3/3	9.4	1.8×2
ZKJ1208-D4/3	12.5	1.8×2
ZKJ1208-D5/3	15.6	1.8×2

Note: The installed power may vary according to the operation condition.

ZKJ1408-D Specification

Model No.	Screening Area (m ²)	Installed Power (kW)
ZKJ1408-D1/4	4.8	1.8×2
ZKJ1408-D2	4.8	1.8×2
ZKJ1408-D3	7.2	1.8×2
ZKJ1408-D4	9.7	1.8×2
ZKJ1408-D5	12.1	1.8×2
ZKJ1408-D2/3	7.2	1.8×2
ZKJ1408-D3/3	10.9	1.8×2
ZKJ1408-D4/3	14.5	1.8×2
ZKJ1408-D5/3	18.2	1.8×2

Note: The installed power may vary according to the operation condition.

ZKJ2430-D Specification

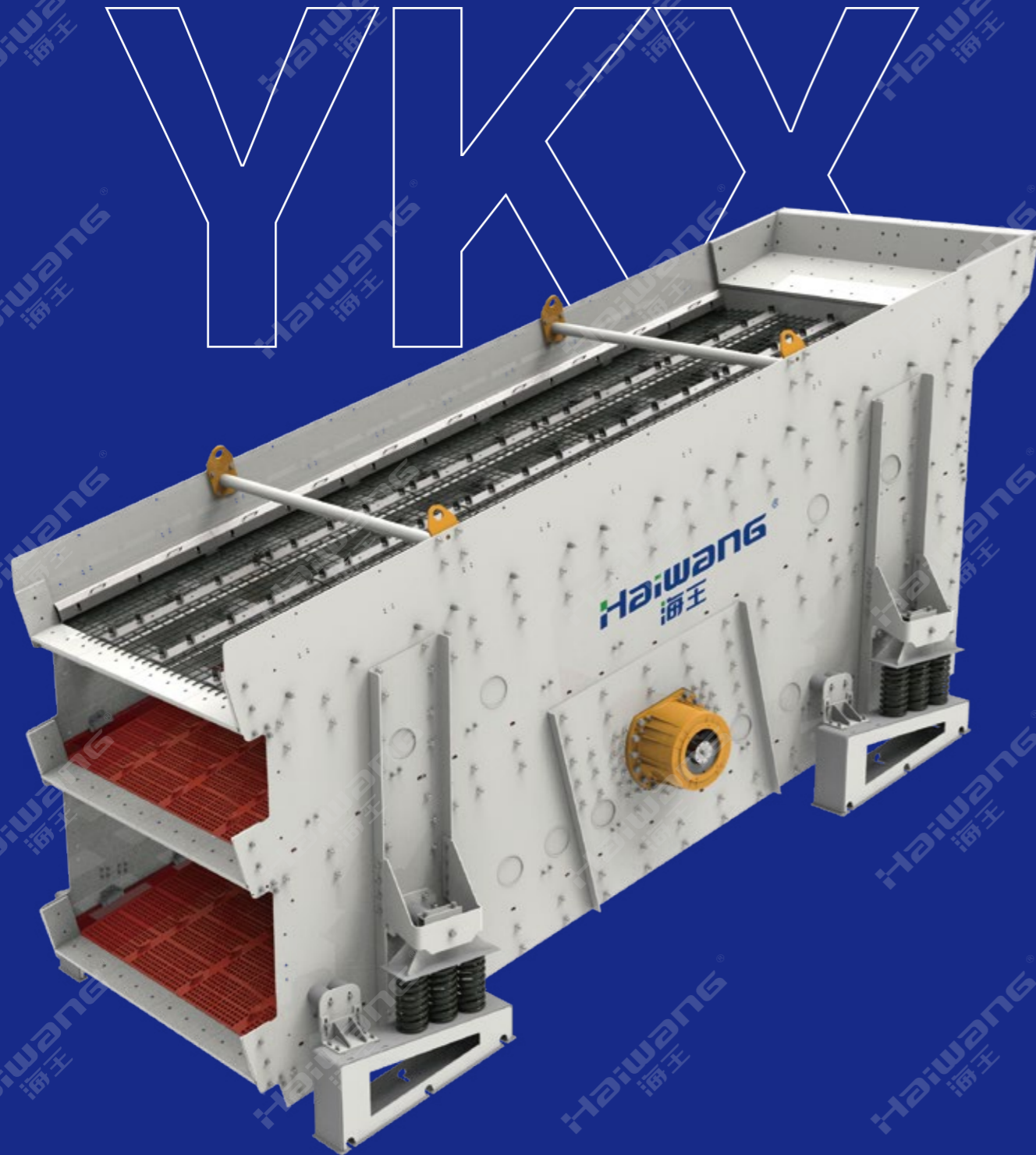
Model No.	Screening Area (m ²)	Installed Power (kW)
ZKJ2430-D1	7.2	2

Note: The installed power may vary according to the operation condition.



YKX

Circular Vibrating Screen



Technical Features

- With large excitation force, small bearing load, and low running noise.
- With large processing capacity and high screening efficiency
- It can go through the resonance zone smoothly, with small dynamic load on each fulcrum of the screen.

Specification

Model No.	Screening Area per Layer (m ²)	Installed Power (kW)
2YKX1536	5.7	11
3YKX1536	5.7	15
4YKX1536	5.7	22
2YKX1848	9.1	18.5
3YKX1848	9.1	22
4YKX1848	9.1	30
2YKX1861	11.4	22
3YKX1861	11.4	30
4YKX1861	11.4	37
2YKX2461	15.1	30
3YKX2461	15.1	37
4YKX2461	15.1	37
2YKX2473	18.1	30×2
3YKX2473	18.1	30×2
2YKX3073	22.6	37×2
3YKX3073	22.6	37×2
2YKX3673	26.7	45×2
3YKX3673	26.7	45×2

Note: The installed power may vary according to the operation condition.

TKX

Elliptical Vibrating Screen



Technical Features

- With the elliptical trajectory, the screen aperture is not easy to be blocked, and the screening efficiency is higher.
- The horizontal / positive inclination / negative inclination installation can reduce height of the screen effectively.

Specification

Model No.	Screening Area per Layer (m ²)	Installed Power (kW)
2TKX1848	9.1	18.5
3TKX1848	9.1	22
2TKX1861	11.4	22
3TKX1861	11.4	30
2TKX2461	15.1	30
3TKX2461	15.1	37
2TKX2473	18.1	30×2
3TKX2473	18.1	30×2

Note: The installed power may vary according to the operation condition.

HS

Sieve-bend Screen



Specification

Model No.	Screen Width (mm)
HS1315	1300
HS1615	1600
HS1915	1900
HS2215	2200
HS0720	700
HS1020	1000
HS1320	1300
HS1620	1600
HS1920	1900
HS2220	2200
HS2420	2400
HS3420	3400

KD Series Side Mounted Vibration Exciter

The KD series side mounted vibration exciter is flexibly connected with the driving motor. The driving motor does not participate in the vibration, and is matched with the ZKX series screen.



Model No.	ZKX Series
KD75	ZKX1536 ZKX1837 ZKX1845
KD85	ZKX2445
KD120	ZKX2461 ZKX3061 ZKX3661

Note: For non-standard screen, please consult Haiwang for the model selection.

HW Series Side Mounted Vibration Exciter

The HW series side mounted vibration exciter is flexibly connected with the driving motor. The driving motor does not participate in the vibration, and is matched with the YKX and TKX series screen.



Model No.	YKX Series	TKX Series
HWB	2YKX1536 3YKX1536 4YKX1536	2TKX1848 2TKX1861
HWC	2YKX1848 3YKX1848 4YKX1848 2YKX1861 3YKX1861 3YKX2473 2YKX3073	3TKX1848 3TKX1861 2TKX2461 3TKX2473
HWD	4YKX1861 2YKX2461 3YKX2461 4YKX2461 2YKX2473 3YKX3073 2YKX3673 3YKX3673	3TKX2461
HWC+ HWD		2TKX2473

Note: For non-standard screen, please consult Haiwang for the model selection.

HW Series Box Type Vibration Exciter

Adopting high-precision and heavy-duty helical gear transmission, and thin oil splash lubrication, the HW series box type vibration exciter is matched with ZKK and ZKB series screen.

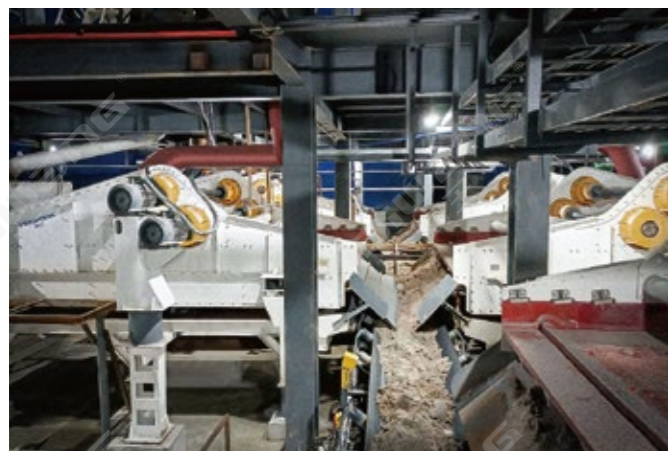


Model No.	ZKB Series	ZKK Series
HW180	ZKB1861 ZKB2161 ZKB2436 ZKB2448	ZKK1836 ZKK1848 ZKK1861 ZKK2436 ZKK2448
HW300	2ZKB1861 2ZKB2161 2ZKB2436 2ZKB2448 ZKB2461 ZKB3061 ZKB3073 ZKB3661	2ZKK1848 2ZKK2448 ZKK2461 ZKK3048 ZKK3061 ZKK3073 ZKK3636 ZKK3642 ZKK3648 ZKK3661
HW390	2ZKB2461	2ZKK2461 2ZKK2473 2ZKK3048 ZKK3673
HW470	2ZKB3673 2ZKB3685 2ZKB4361	ZKK4373 ZKK4385
HW490	2ZKB3061 2ZKB3073 2ZKB3661 ZKB3673 ZKB3685 ZKB4361 ZKB4373 2ZKB4373 ZKB4385 2ZKB4385	2ZKK3061 2ZKK3073 2ZKK3661 2ZKK3673

Note: For non-standard screen, please consult Haiwang for the model selection.



Site
Application



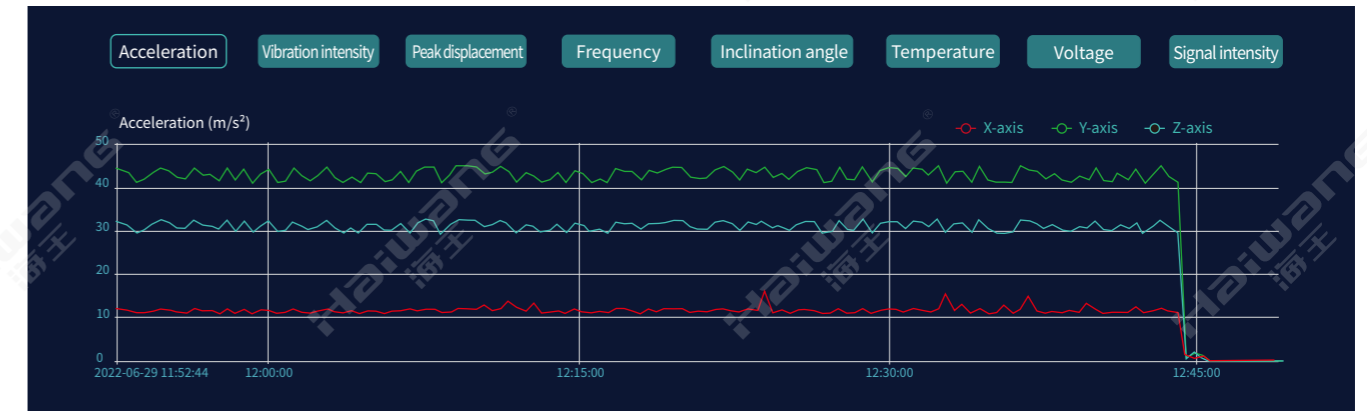
Site Application





Intelligent Monitoring System of Screen

Vibration screen occupies an important place in the production so any unplanned stop or malfunction will result in the increasing of operation cost. For improving the reliability and stability of equipment, Haiwang was dedicated to the research on the security monitoring technology for the sake of providing users with the intelligent monitoring system for single machine or screening machine and the other vibration equipment.



01 Digitization

Digitized vibration monitoring device

Real time monitoring the vibration situation of screen, the main inspection includes: amplitude, vibration frequency as well as vibration acceleration and feedback the information in real time to the control system; if any malfunction or abnormal situation was found, there will be early warning information until the stop of machine so as to guarantee the security of equipment and staff.

02 Digitization

Bearing temperature monitoring device

Monitor the variation of temperature while bearing working by assembling the temperature sensor on the bearing seat of vibration screen. Check whether the bearing temperature is abnormal by comparing the tolerant temperature while its departure from the factory under the normal working of bearing on the equipment so as to avoid the jam or bearing due to high temperature and the other malfunctions.

03 Visualization

Digitized load monitoring device

During the operation of screen, the load situation on each supporting point of screen can be monitored in real time. Once the load gets unbalanced, such as: left and right unbalance loading, front and back unbalance loading, point unbalancing loading and overloading and so on, there will be real-time display on the control panel and warning alarm.

04 Intelligentize

Intelligent monitoring device

Adopt the new-type, compact and innovative online monitoring system, which can monitor the important parts of screen at all times during the operation process of screen (include bearing, gear and spring and so on) and send out pre-alarm for the damage of main bearing, unbalanced load of gear transmission, invalid spring and the other screen malfunctions.

05 Automation

Automatic lubrication system

The vibration exciter, transmission shaft and other parts of the screen can be equipped with an automatic lubrication system to avoid the problems of forgetting to lubricate or over-lubricated, and thus to ensure the stable and reliable operation of the screen.

Technical service

Haiwang provides users with more professional technology, highly efficient equipment and superior equipment! Persist in mutual benefit and win-win development concept, taking unremitting efforts to realize the common progress of all the customers and cooperation partners!

To guarantee the best performance of equipment, every Haiwang vibration screen goes through 24 hours continuous operation test before its departure, all the connection part's tightening condition gets inspected, bearing temperature is under the monitoring, data are extracted by the professional vibration testing instrument and equipment is adjusted until reaching the optimal operation condition through the data analysis so as to guarantee the high efficiency and safe operation of each equipment after its arrival on the site.

- Technical service network spread all over the world.
Technical service response for domestic user within 24 hours, for users in remote area and customers abroad, site technical service will be available within 48 hours.
- Professional technical team with over 100 people
Provide user with pre-sale technical consultation, model selection design, test, guidance on site installation, commissioning, training and the other technical services.

