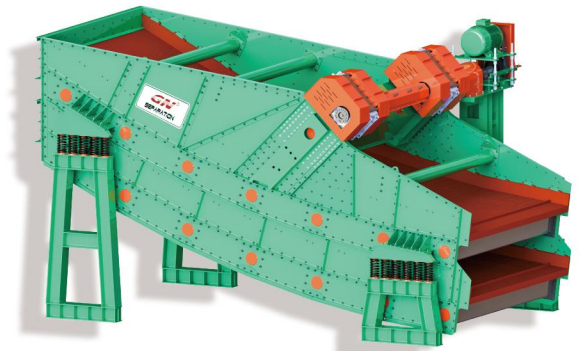




**SEPARATION**



# Mining Vibrating Screen

**GN Separation Equipment Co.,Ltd.**



# SEPARATION

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## The Company

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GN Separation Equipment Co.,Ltd. (GN Separation) focus on the manufacturing of separation equipment. GN Mining vibrating screen is a branch division of GN Separation Equipment. GN mining vibrating screen includes: Stack Vibrating Screen, High Frequency Vibrating Screen, Dewatering Vibrating Screen, Classification Vibrating Screen, Large Linear Screen, Large Banana Screen, Large Flip-Flow Screen and Polyurethane Screen Panel. GN mining vibrating screen is often used for material classification, screening and dewatering and separation in metallurgy, beneficiation, coal preparation, building materials, chemical industry and other industries.



## GN Separation Equipment Advantages



### **Rich Experience:**

Since 2008, GN has accumulated **over 17 years** of expertise in researching, developing, and manufacturing separation equipment. GN is recognized as a National Key Little Giant Company in 2024.



### **Robust Manufacturing Capabilities:**

Occupying a total area of **110,000 square meters**, GN Separation boasts three primary manufacturing facilities equipped with cutting-edge machinery, including Automatic Welding Robot Workstations, Large Laser Cutting Machines, Advanced CNC Machining Centers, and Large Automatic Injection Molding Machines for shaker screens.



### **Well-established Management System:**

GN has obtained certifications for ISO 9001, ISO 14001, ISO 45001, as well as the American API Q1 Quality Management System. Additionally, GN's products have secured EU CE and ATEX certifications. GN utilizes an **ERP Cloud+CRM** Cloud management system.



### **Extensive Market Share:**

Our products are exported to more than **70 countries and regions globally**, gaining wide recognition from both domestic and international customers. Furthermore, we have established branches in Houston, USA, and Brisbane, Australia.

## GN Tangshan Factory

1

Area of 80,000 m<sup>2</sup>  
(860,000SF)



2

Office Size of 10,000 m<sup>2</sup>  
(107,000SF)



3

Available for  
Separation  
Equipment and  
Package System



## GN USA Facility

GN Solids America is a branch company of GN Solids Control China. GN Solids America is located in Houston, Texas. With our professional team and workshop and warehouse in Houston, TX, we can offer better service to the North and South America customers. In our Houston office, we have employee speaking Chinese, English and Spanish which help us to communicate with customers more smoothly.



## GN Solids Australia

GN Solids Control Australia branch: GN Solids Australia is the first sub-company of a Chinese solid control equipment manufacturer registered within Australia domestically. The company is located in Brisbane, Australia. It has the functions of equipment and accessory storage, equipment maintenance and assembly, and office. GN Australia provides equipment sales and leasing businesses.



## GN Factory

### Blanking Workshop



Large CNC Laser Pipe Cutting Machine



Large CNC Laser Plate Cutting Machine

### Welding Workshop



Robot Welding Production Lines for Solids Control Equipment

### CNC Machining Workshop



Centrifuge and Pumps Production by CNC lathe, CNC machining center and Balance Machine etc.

## Coating Workshop



Include Sand and Ball Blasting Machine, Painting and Powder Coating Production Line (Control Ambient Air for High quality)



## Assembly Shop



Available for Individual Equipment or Package Mud System Assembly



## GN Langfang Factory



Langfang No.1 Factory



Langfang No.2 Factory

# GN Certificates

- ISO9001 Quality Management Certificate
- ISO14001 Environment Management Certificate
- ISO45001 HSE Certificate
- America API Q1 Certificate
- Russia EAC Certificate
- Europe CE Certificate
- International IECEx certificate
- Europe ATEX certificate
- National High Tech Certificate



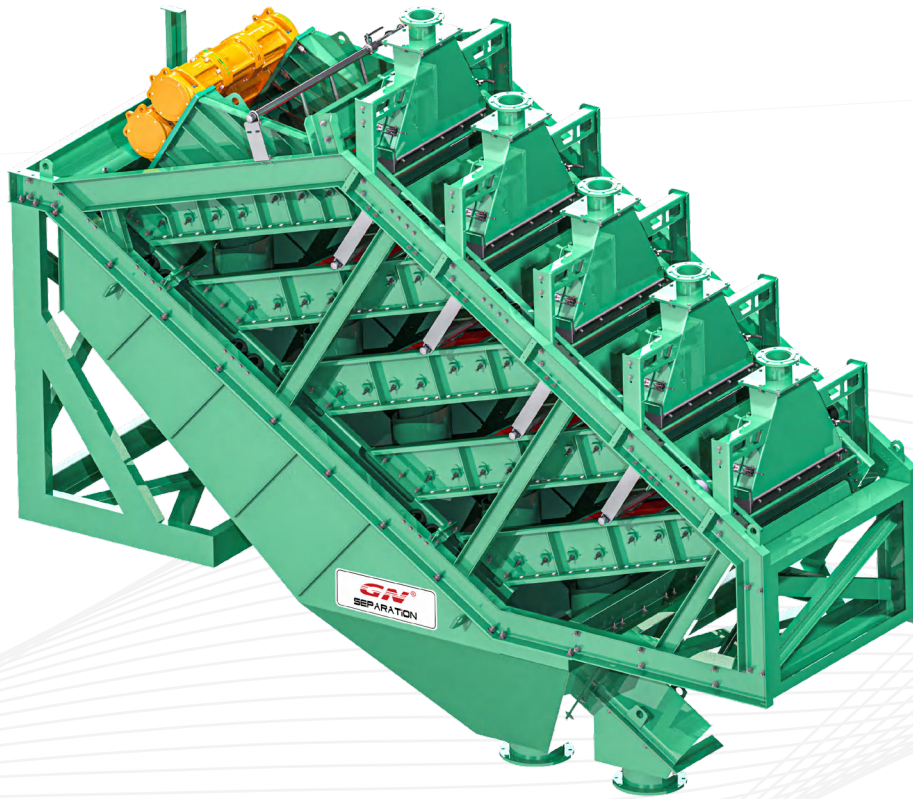


## Stack Vibrating Screen

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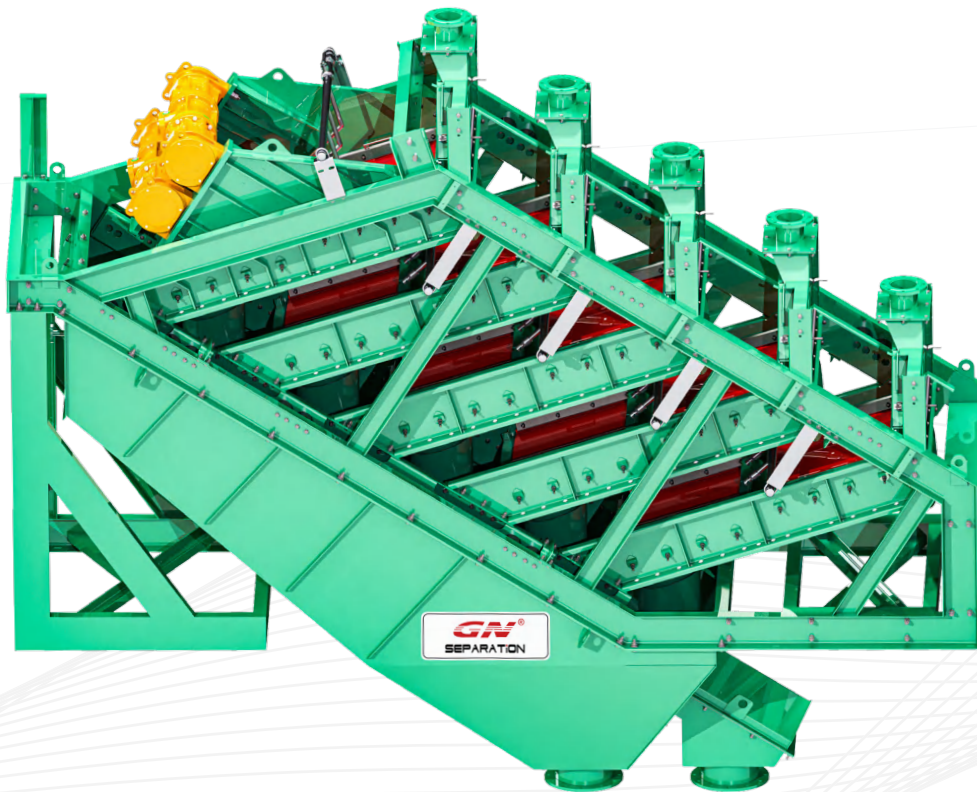


GN Stack Vibrating Screen is mainly suitable for wet screening, classification and dehydration treatment of fine-grained materials in mineral processing, coal preparation and other industries. It can be set to 2 to 5 layers according to on-site requirements. GN Stack Vibrating Screen is a self-developed product of GN Company. It is designed and driven by a single vibration source (dual vibration motor) by using the principle of two-degree-of-freedom resonance to realize linear vibration of the whole machine. GN Stack Vibrating Screen has unique vibration mode, energy saving, high screening efficiency, large processing capacity, advanced technology, simple structure, stable and reliable operation, and is currently one of the most advanced equipment in the field of fine-grained material screening. GN Stack Vibrating Screen adopts Polyurethane Screen Mesh, with high opening rate (28-45%) and average life span of more than 6 months.



## Stack Vibrating Screen Specs (1)

Model	GND3Z 1014	GND4Z 1014	GND5Z 1014	GND2Z 1021	GND3Z 1021	GND4Z 1021	GND5Z 1021
Screen Deck layers	3	4	5	2	3	4	5
Total Screening Area	4.2 m <sup>2</sup>	5.6 m <sup>2</sup>	7 m <sup>2</sup>	4.2 m <sup>2</sup>	6.3 m <sup>2</sup>	8.4 m <sup>2</sup>	10.5 m <sup>2</sup>
Linear Vibration Amplitude (Double)	1-2mm						
Total Installed Power (output)	2 sets×1.84 kW						
Vibration Frequency	25Hz						
Screen Inclination	17.5°						
Mesh Size	0.045-2mm						
Screen size (L×W)	700×1050 (mm)						
Number of screen	6	8	10	6	9	12	15
Dry Ore Discharge Capacity(m <sup>3</sup> /h)	6 ~ 18	8 ~ 24	10 ~ 30	5 ~ 12	6 ~ 19	8 ~ 25	10 ~ 32



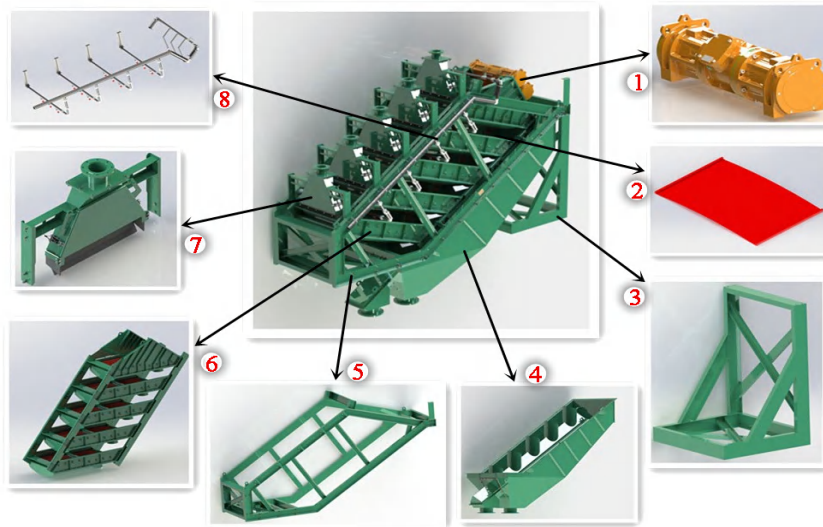
## Stack Vibrating Screen Specs (2)

Model	GND3Z 1216	GND4Z 1216	GND5Z 1216	GND3Z 1416	GND4Z 1416	GND5Z 1416
Screen Box Layers	3	4	5	3	4	5
Total Screening Area	5.76 m <sup>2</sup>	7.68 m <sup>2</sup>	9.6 m <sup>2</sup>	6.72 m <sup>2</sup>	8.96 m <sup>2</sup>	11.2 m <sup>2</sup>
Linear Vibration Amplitude (Double)	1-2mm					
Total Installed Power (Output)	2sets×1.84kW					
Vibration Frequency	25Hz					
Screen Inclination	17.5°					
Mesh Size	0.045-2mm					
Screen Size (L×W)	840×1245(mm)			840×1440(mm)		
Number Of Screen	6	8	10	6	8	10
Processing Capacity (Dry Ore m <sup>3</sup> /h)	7~21	9~28	12~36	8~25	11~33	14~42

## Stack Vibrating Screen Features

- GN Stack Vibrating Screen is designed with dual-motor self-synchronization principle, and the screen box assembly moves linearly.
- Imported vibration motor (Martin motor or OLI motor) with advanced technology, reliable operation and long trouble-free operation time.
- The screen box general assembly of the Stack Vibrating Screen is arranged in multiple layers. Compared with similar vibrating screen, it has the advantages of small footprint, large processing capacity per unit area, high screening efficiency, low power consumption, small dynamic load, simple operation, stable performance, safety and durability, low maintenance and so on.
- The Polyurethane Screen Mesh is used, which has good elasticity and is not easy to be blocked. Two to three screens can be installed in the each single-layer screen box.
- The screen is fixed by pulling-bolt components, which is easy to operate and reliable to fasten.
- The surface treatment of the vibrating screen adopts the sandblasting process, and the heavy anti-corrosion paint is used for spraying, which has good anti-corrosion performance. The contact surface with the material adopts the form of spraying polyurea resin wear-resistant anti-corrosion layer to protect the surface of the screen and prolong the service life of the screen.

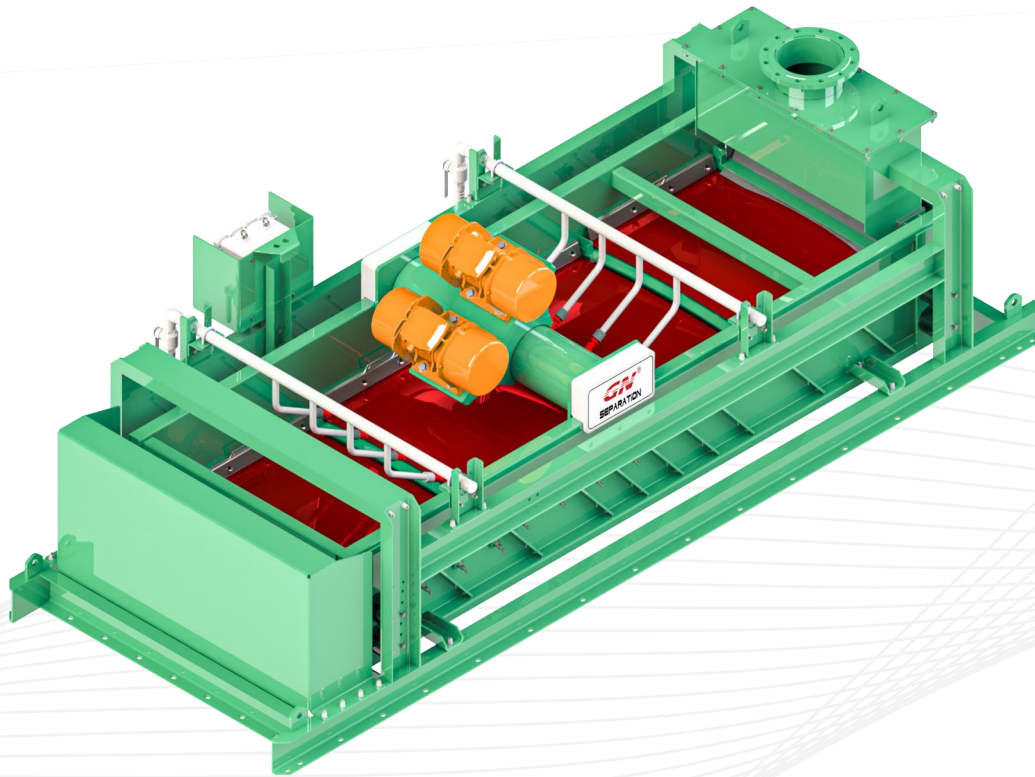
## Stack Vibrating Screen Main Parts



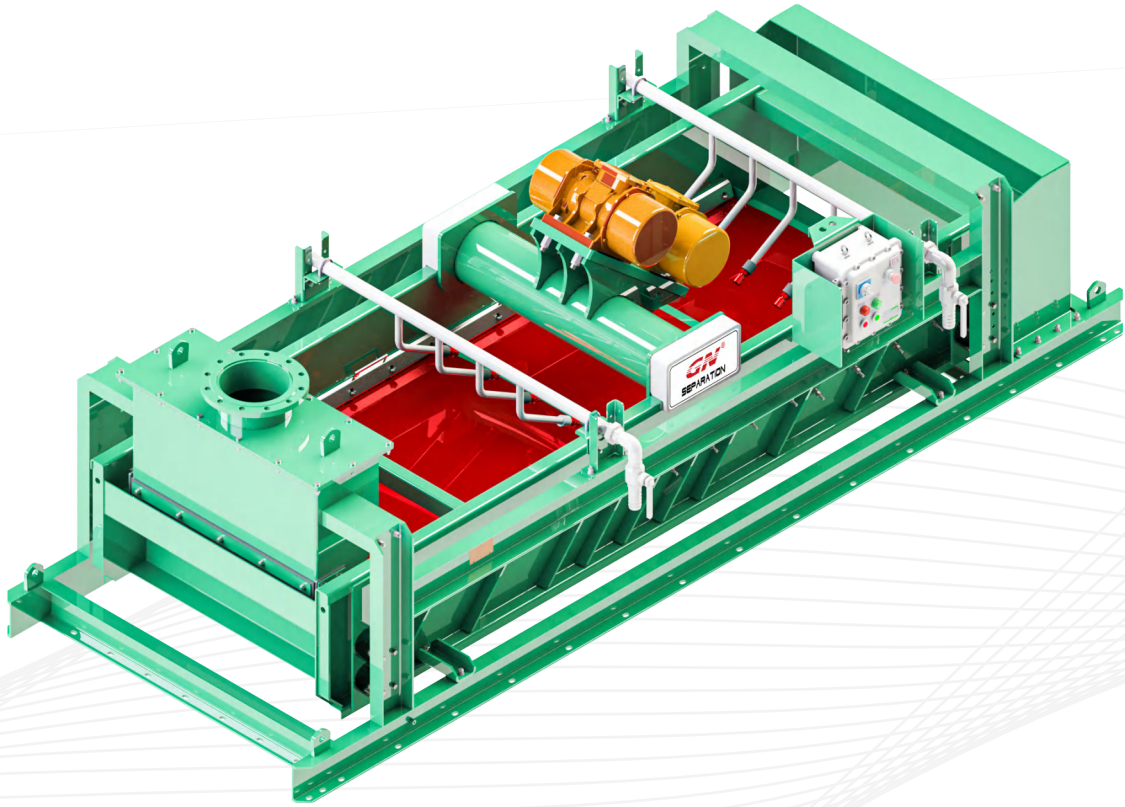
SN	Parts name
1	Vibration motor
2	Polyurethane Screen Mesh
3	Rear support frame assembly
4	Receiving chute assembly
5	Rack assembly
6	Screen box assembly
7	Feed box assembly
8	Water spray assembly

# High Frequency Vibrating Screen

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GN High Frequency Vibrating Screen is mainly suitable for wet screening, classification and dewatering treatment of fine-grained materials in mineral and coal preparation and other industries. High Frequency Vibrating Screen is a self-developed product of GN company, using the two-degree-of-freedom resonance principle. Designed to use a single vibration source (dual imported vibration motors) to drive to realize the linear vibration of the whole machine. High Frequency Vibrating Screen has the advantages of large screening area, adjustable screen box angle, compact structure, excellent performance and high cost performance. High Frequency Vibrating Screen has unique vibration mode, energy saving, high screening efficiency, large processing capacity, advanced technology, simple structure, stable and reliable operation. It is one of the most advanced equipment in the field of fine-grained material screening. High Frequency Vibrating Screen use Polyurethane Screen Mesh. The opening rate is high (28-45%), and the average life is more than 6 months.



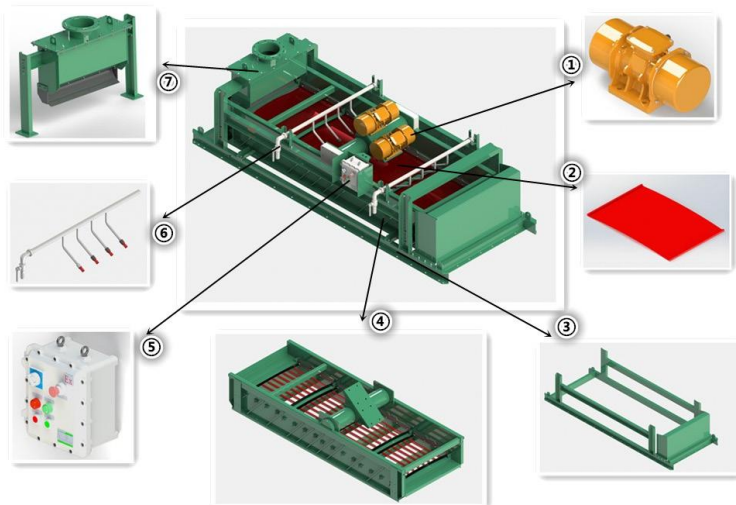
## High Frequency Vibrating Screen Specs

Model	GNFG1021	GNFG1028	GNFG1232	GNFG1440
Total Screen Area	2.1m <sup>2</sup>	2.8m <sup>2</sup>	3.84m <sup>2</sup>	5.6m <sup>2</sup>
Linear Vibration Amplitude (Double)	2-3mm			
Total Installed Power (Output)	2sets×1.2kW		2sets×1.5kW	2sets×1.84kW
Vibration Frequency	25Hz			
Screen Inclination	0-3°			0-2°
Mesh Size	0.045-2 mm			
Screen Size (length × width)	700×1050 (mm)		840×1250 (mm)	840×1450 (mm)
Number of Screen Mesh	3 Pcs	4 Pcs	4 Pcs	5 Pcs
Processing Capacity (Dry Ore m <sup>3</sup> /h)	3~8 m <sup>3</sup> /h	3~9 m <sup>3</sup> /h	4~11 m <sup>3</sup> /h	4~15 m <sup>3</sup> /h

## High Frequency Fine Vibrating Screen Features

- High Frequency Vibrating Screen is designed based on the principle of self-synchronization of dual motors, and the screen box assembly moves in a linear line.
- Imported vibration motor (Martin motor or OLI motor) with advanced technology, reliable operation and long trouble-free operation time.
- The screen box assembly is arranged in multiple stages, which has the advantages of large processing capacity, high screening efficiency, low power consumption, small dynamic load, simple operation, stable performance, safety and durability, and low maintenance.
- The mechanical angle adjustment of the screen box assembly is convenient and reliable.
- The overall heat treatment of the screen box can meet the long-term work under high vibration intensity.
- International famous brand electrical components, Siemens or Schneider components.
- Polyurethane Screen Mesh is adopted, good elasticity, not easy to block the screen, three to four screens can be installed.
- The screen is fixed by the pulling bolt assembly, which is easy to operate and reliable to fasten.
- The surface of the vibrating screen is treated by sandblasting and sprayed with heavy anti-corrosion paint, which has good anti-corrosion performance.

## High Frequency Fine Vibrating Screen Main Parts



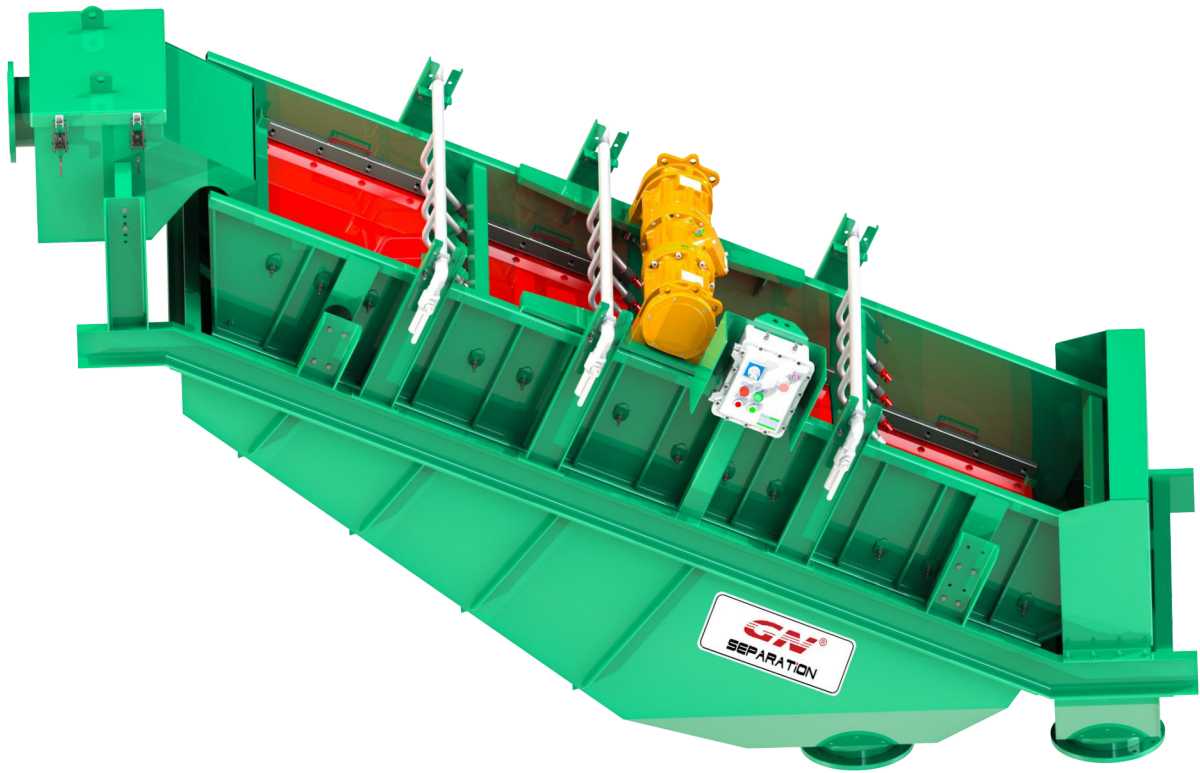
SN	Parts name
1	Vibration motor
2	Polyurethane Screen Mesh
3	Base assembly
4	Screen box assembly
5	Electric Control Panel
6	Water Spray Assembly
7	Feed Box Assembly

## High Shear Circular Screen

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GN high shear circular screen can be used in the classification, coarse separation and dewatering of silica sand, feldspar, coal, iron ore, gold ore and other materials. GN high shear circular screen is self-designed product, it uses a single excitation source (one vibration motor) to drive, generate inertia force that changes in a sinusoidal pattern around the fixed axis and direction, and achieve circular vibration of the screen deck assembly. This equipment has the advantages of large screening area, adjustable screen deck angle, compact structure, excellent performance, and high cost-effectiveness. This equipment has a unique vibration mode, energy saving, high screening efficiency, large processing capacity, advanced technology, simple structure, stable and reliable operation, and is currently an advanced equipment in the field of fine material screening. GN high shear circular screen can all use flexible polyurethane fine screen mesh, with a high opening rate (28-45%) and an average lifespan of more than 6 months.



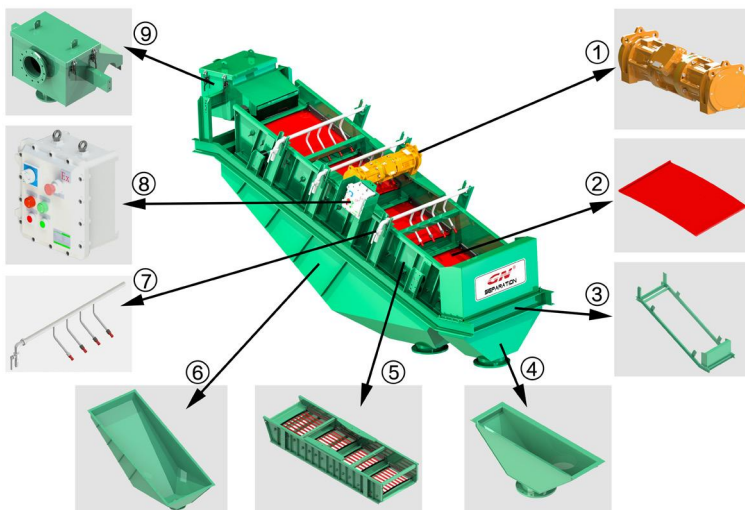
## High Shear Circular Screen Parameters

Model	GNYK1028	GNYK1440
Total Screening Area	2.8m <sup>2</sup>	5.6m <sup>2</sup>
Vibration Amplitude (Double)	2-4mm	
Total Installed Power (output)	1sets×1.84KW	1sets×2.3KW
Vibration Frequency	25Hz	
Screen Inclination	23°-27°	
Mesh Size	0.045 - 2 mm	
Screen size (length × width)	700×1050(mm)	840×1450(mm)
Number of Screen Mesh	4Pcs	5Pcs
Processing capacity (Dry Ore m <sup>3</sup> /h)	3~20	4~30

## High Shear Circular Screen Features

- GN high shear circular screen uses a single vibration motor as the vibration source to make the screen deck move in a circular motion.
- Imported vibration motor (Martin motor or OLI motor) with advanced technology, reliable operation and long trouble-free operation time.
- The screen box assembly is arranged in multiple sections, which has the advantages of large processing capacity, high screening efficiency, low power consumption, small dynamic load, simple operation, stable performance, safety and durability, and low maintenance.
- The mechanical angle adjustment of the screen box assembly is convenient and reliable. Reconstituted-slurry spray water is added between each section of the screen deck to increase the screening effect of the material.
- The overall heat treatment of the screen box can meet the long-term work under high vibration intensity.
- International famous brand electrical components, Siemens or Schneider components.
- The flexible polyurethane screen mesh is used, which has good elasticity and is not easy to block the screen. 4 to 5 pieces of screens can be installed.
- The screen is fixed by mesh-pulling bolt components, which is easy to operate and reliable to fasten.
- The surface treatment of the vibrating screen adopts sandblasting technology, spraying heavy anti-corrosion paint, and has good anti-corrosion performance. The contact surface with the material is sprayed with a polyurea resin wear-resistant anti-corrosion layer or pasted with wear-resistant rubber plates to protect the surface of the screen machine and extend its service life.

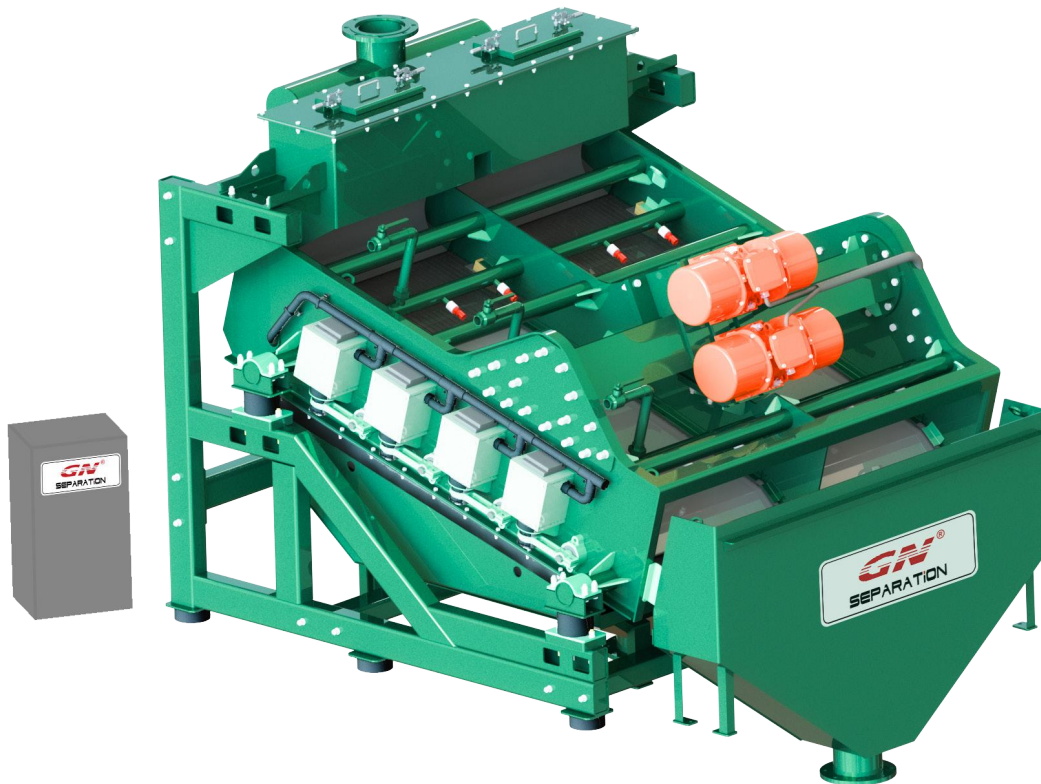
## High Shear Circular Screen Main Components



SN	Parts name
1	Vibration motor
2	Polyurethane Screen Mesh
3	Base assembly
4	Oversize Receiving Groove
5	Screen deck assembly
6	Undersize Receiving Groove
7	Water Spray Assembly
8	Electric Control Panel
9	Feeding Box Assembly

# Synergistic Frequency Vibrating Screen

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Synergistic Frequency Vibrating Screen is mainly used for screening, grading, and separation of fine-grained materials. It can be used in coal, metallurgical mineral processing, chemical industry, ceramics and other industries. The machine is a self-developed product which uses linear vibration frequency and partial electromagnetic vibration frequency to work together. It is designed with the coexistence of motor and electromagnetic frequencies. The new vibration principle uses electromagnetic excitation to drive the vibration system to excite the screen mesh, while the motor drives the screen deck to perform linear vibration. By adjusting the electric current, the amplitude of the electromagnetic vibration is controlled. The operation is simple, the performance is stable, the efficiency is high, and the screen mesh can achieve self-cleaning and other characteristics.



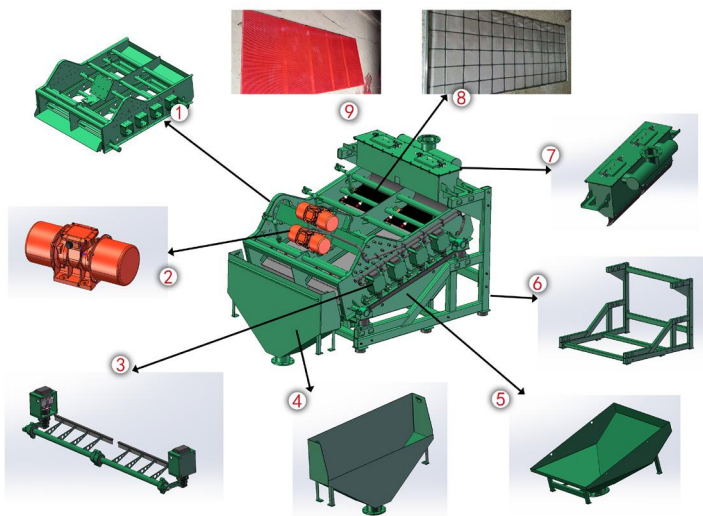
## Synergistic Frequency Vibrating Screen Specs

Model	GNFK2020	GNFK2030
Screen Deck Layer	1 Layer	1 Layer
Screen Area	4m <sup>2</sup>	6m <sup>2</sup>
Linear vibration amplitude(Double)	0-3mm	
Electromagnetic vibration amplitude (Double)	0-2mm	
Total Power(Output)	2×1.5+8×0.3=5.4kW	2×1.7+12×0.3=7kW
Motor/Electromagnetic Vibration Frequency	16/25Hz	
Screen Surface Angle	16±2°	
Mesh Size	0.045 – 3mm	
Capacity(for Dry Ore)	5~25m <sup>3</sup> /h	

## Synergistic Frequency Vibrating Screen Features

- Screen mesh excited by electromagnetic, accompanied by the instantaneous strong vibration function, the machine can self-clean the screen and is not easy to be blocked.
- The electromagnetic exciter is controlled separately to meet the amplitude requirements of different screen surface positions.
- The dual motors drive the screen deck to vibrate linearly, the material on the screen surface is transported smoothly, and the screening efficiency is high.
- The electromagnetic excitation and vibration motor can also operate separately according to different on-site requirements without interfering with each other.
- The water spray device enables the material on the screen surface to be fully dispersed and improve the screening rate.
- The flow-through parts of the entire set of equipment are sprayed with polyurea to enhance wear resistance and corrosion resistance and extend the service life of the whole machine.

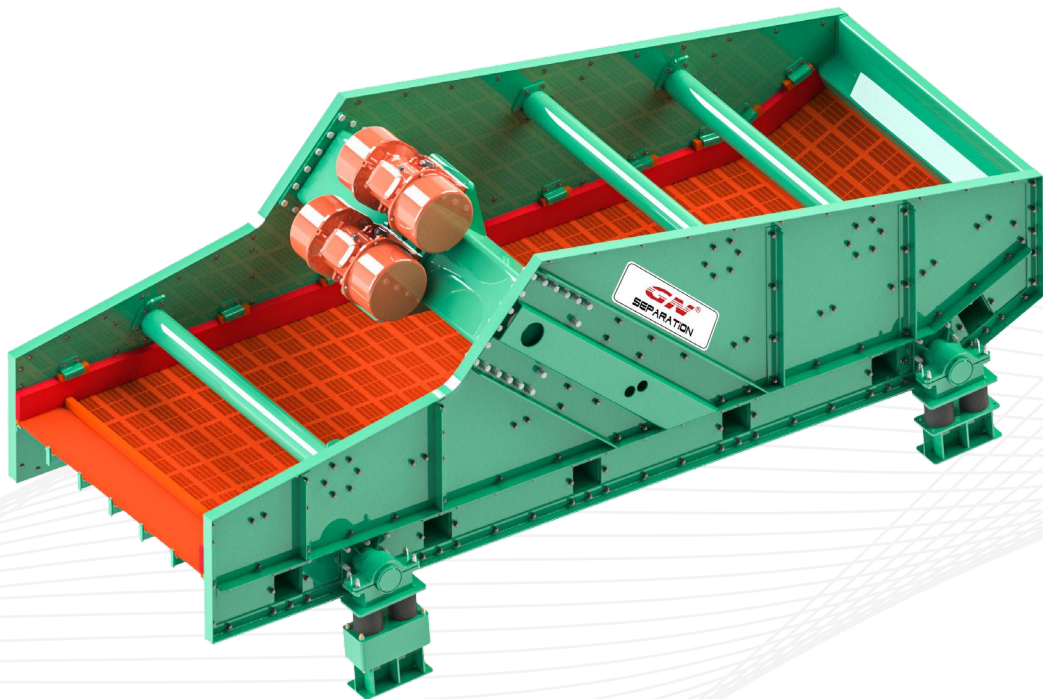
## Synergistic Frequency Vibrating Screen Main Components



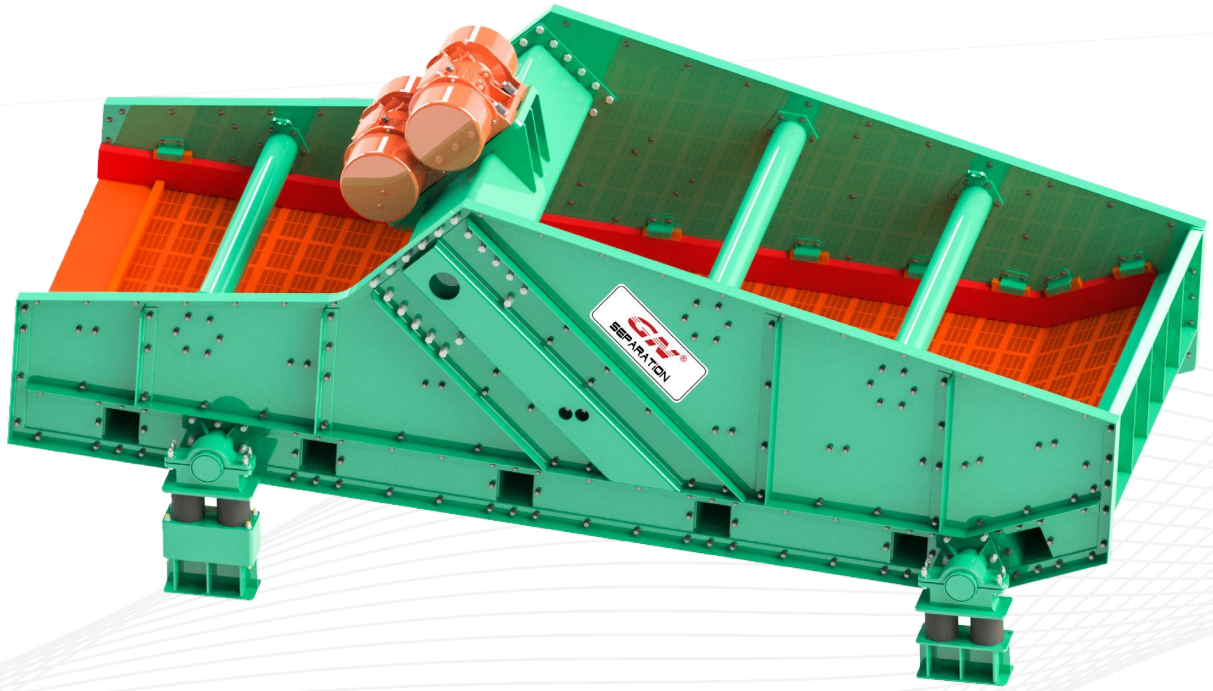
SN	Part Name
1	Screen Deck Assembly
2	Vibration Motor
3	Electromagnetic & Vibration System
4	Oversize Receiving Trough
5	Undersize Receiving Trough
6	Screen Frame Assembly
7	Feeding Box Assembly
8	Working Mesh
9	Supporting Mesh

# Dewatering Vibrating Screen

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GN Dewatering Vibrating Screen is widely used in the mining industry, coal industry, construction material, metallurgy industry, and chemical industry. The linear motion dewatering vibrating screen can be used for dewatering, desliming, demineralization and dry discharge of mining tailings. The equipment adopts advanced design such as finite element analysis and anti-fatigue analysis to ensure the reasonable structure of the screen, low energy consumption and large dewatering and dry discharge capacity. It can be adapted into various working conditions that are easy to corrode and wear. Large processing capacity, high efficiency and stable performance. The size of the machine can also be customized according to customer requirements.



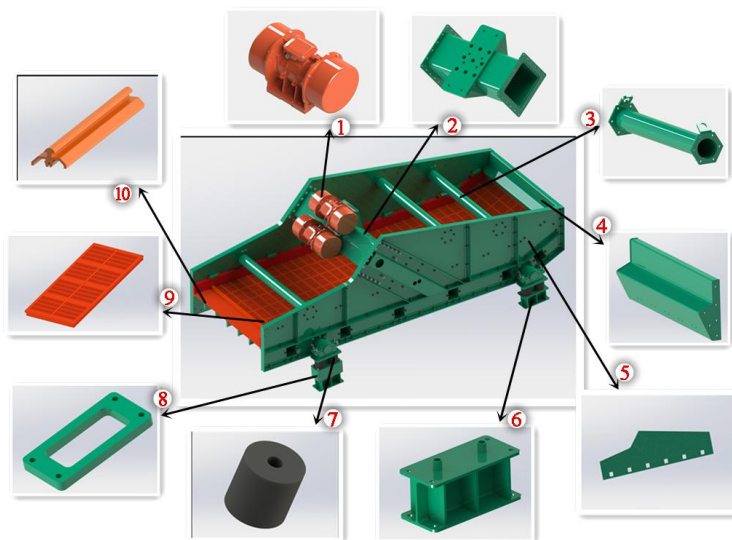
## Dewatering Vibrating Screen Specs

Model	GNLMZ 1224	GNLMZ 1236	GNLMZ 1536	GNLMZ 1836	GNLMZ 1848	GNLMZ 2448
Screen Area	2.88 m <sup>2</sup>	4.32 m <sup>2</sup>	5.4 m <sup>2</sup>	6.48 m <sup>2</sup>	8.64 m <sup>2</sup>	11.52m <sup>2</sup>
Vibration Direction Angle	38~52 Degree					
Vibration Frequency	16 Hz					
Power	2*2.35 kW	2*2.9 kW	2*2.9 kW	2*4.5 kW	2*5 kW	2*7kW
Double Amplitude	4~6 mm					
Screen Opening	0.2-25mm					
Dry Material Discharge Capacity	3~12 m <sup>3</sup> /h	8~20 m <sup>3</sup> /h	12~25 m <sup>3</sup> /h	24~32 m <sup>3</sup> /h	25~35 m <sup>3</sup> /h	30~45m <sup>3</sup> /h
Installation Inclination °	±4					

## Dewatering Vibrating Screen Features

- The whole machine is installed at a positive inclination angle, and the installation angle is 4 degrees adjustable, which is suitable for the requirements of different process materials.
- The folding design of the feeding end of the screen panel is more conducive to dewatering treatment and prolongs the service life of the screen panel.
- The rubber damping spring design has the advantages of good damping effect, low noise, small resonance field, good resilience, stable mechanical performance, long service life and low cost.
- The wallboard is not welded. The steel plate with better impact toughness and cold bending is selected, and the imported HUCK rivet is used for hydraulic tension assembly. This advanced design makes the wallboard free of welding residual stress and material defects, so as to avoid the reduction of fatigue strength of wallboard due to the above defects.
- Through finite element analysis, optimize the structural strength and vibration quality of the screen machine to the greatest extent, reduce stress and prolong the service life of the equipment.
- The fluids touching parts and easily worn parts are sprayed with polyurea by the spraying machine imported from the United States, which is corrosion-resistant, erosion resistant and wear-resistant.
- The post weld heat treatment process of main components can effectively eliminate the welding stress.
- Product serialization to meet the manufacturing requirements of customers under different process conditions; Polyurethane screen panel is modular, more versatile and more convenient to replace.

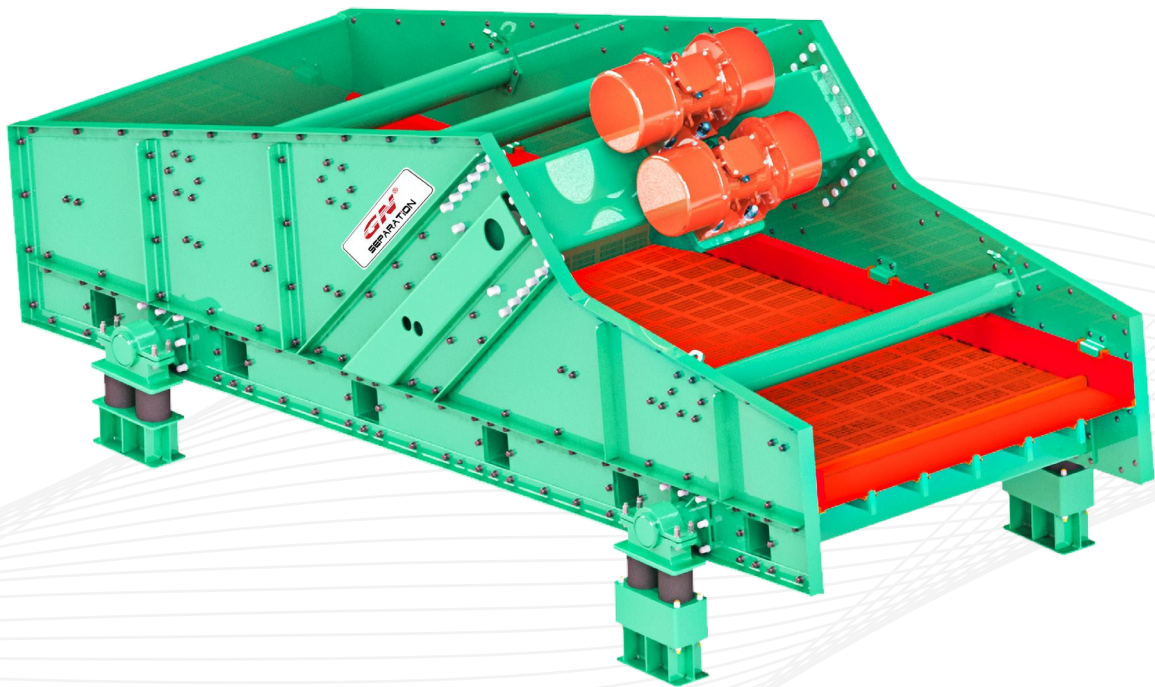
## Dewatering Vibrating Screen Main Parts



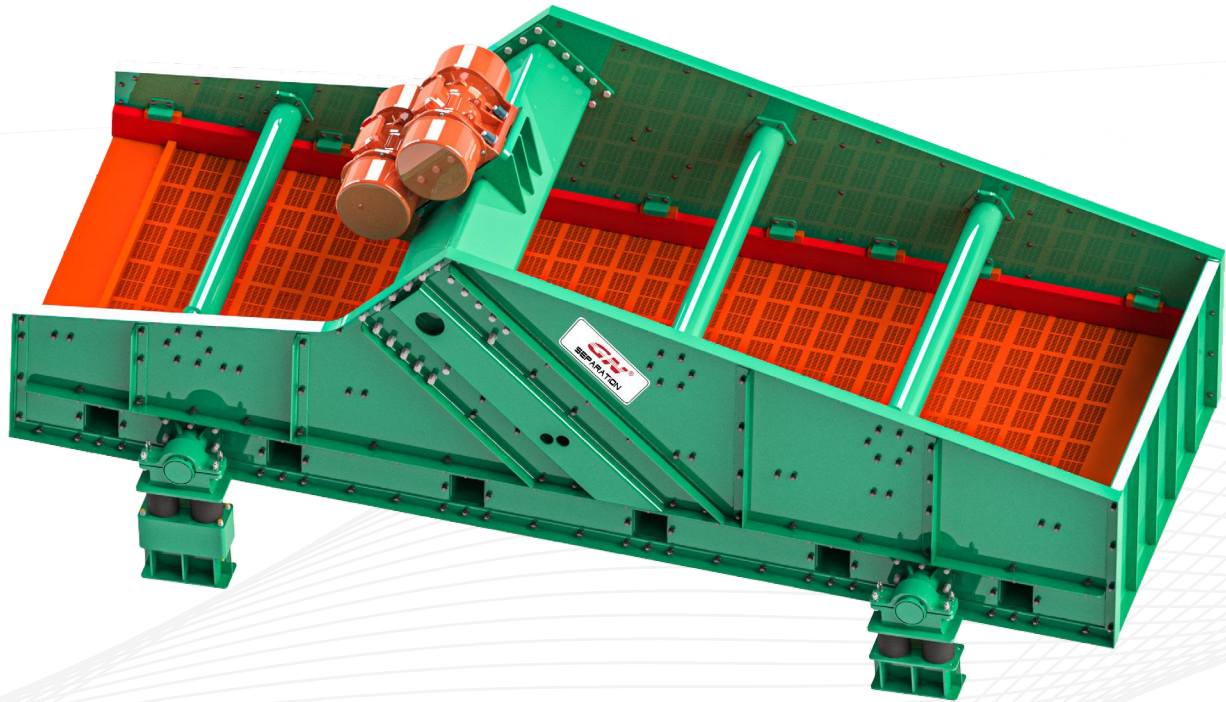
SN	Name
1	Vibrating Motor
2	Vibrating beam assembly
3	Upper beam assembly
4	Feed end beam assembly
5	Wallboard
6	Support base
7	Damping spring
8	Adjusting pad
9	Polyurethane screen panel
10	Rail seat

# Classification Vibrating Screen

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GN Classification Vibrating Screen is widely used in the classification and screening of iron ore, coal, non-ferrous metal ore, building materials, chemical industry and other materials. The equipment adopts advanced design means such as finite element analysis and anti-fatigue analysis to ensure the reasonable structure, low energy consumption and large screening and classification capacity of the screening machine. It can be applied in various working conditions that are easy to corrode and wear. Large processing capacity, high efficiency and stable performance. The size of the screen machine can also be customized according to customer requirements.



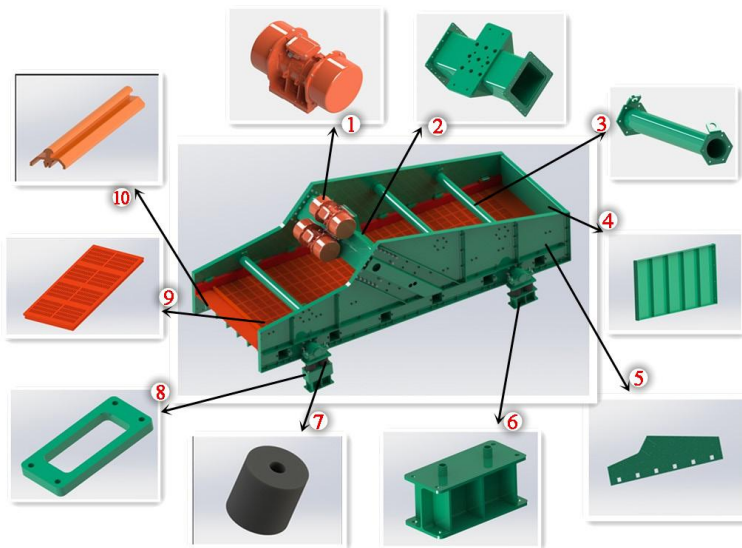
## Classification Vibrating Screen Specs

Model	GNLMP 1224	GNLMP 1236	GNLMP 1536	GNLMP 1836	GNLMP 1848	GNLMP 2448
Screen Area	2.88 m <sup>2</sup>	4.32 m <sup>2</sup>	5.4 m <sup>2</sup>	6.48 m <sup>2</sup>	8.64 m <sup>2</sup>	11.52m <sup>2</sup>
Vibration Direction Angle	38~52 Degree					
Vibration Frequency	16 Hz					
Power	2*2.35kW	2*2.9kW	2*2.9kW	2*4.5kW	2*5kW	2*7kW
Double Amplitude	4~6mm					
Screen Opening	0.2~25mm					
Dry Material Discharge Capacity	3~12 m <sup>3</sup> /h	5~18 m <sup>3</sup> /h	6~20 m <sup>3</sup> /h	8~28 m <sup>3</sup> /h	10~40 m <sup>3</sup> /h	10~80m <sup>3</sup> /h
Installation Inclination	±4 Degree					

## Classification Vibrating Screen Features

- The wallboard is not welded. The steel plate with better impact toughness and cold bending is selected, and the imported HUCK rivet is used for hydraulic tension assembly. This advanced design makes the wallboard free of welding residual stress and material defects, so as to avoid the reduction of fatigue strength of wallboard due to the above defects.
- Through finite element analysis, optimize the structural strength and vibration quality of the screen machine to the greatest extent, reduce stress and prolong the service life of the equipment.
- The fluids touching parts and easily worn parts are sprayed with polyurea by the spraying machine imported from the United States, which is corrosion-resistant, erosion resistant and wear-resistant.
- The post weld heat treatment process of main components can effectively eliminate the welding stress.
- Product serialization to meet the manufacturing requirements of customers under different process conditions; Polyurethane screen panel is modular, more versatile and more convenient to replace.
- The whole machine is installed at a positive inclination angle, and the installation angle is 4 degrees adjustable, which is suitable for the requirements of different process materials.
- The plane design of the whole screen surface is more conducive to screening and grading materials, and maximizes the effective screening area of the screen surface.
- The rubber damping spring design has the advantages of good damping effect, low noise, small resonance field, good resilience, stable mechanical performance, long service life and low cost.

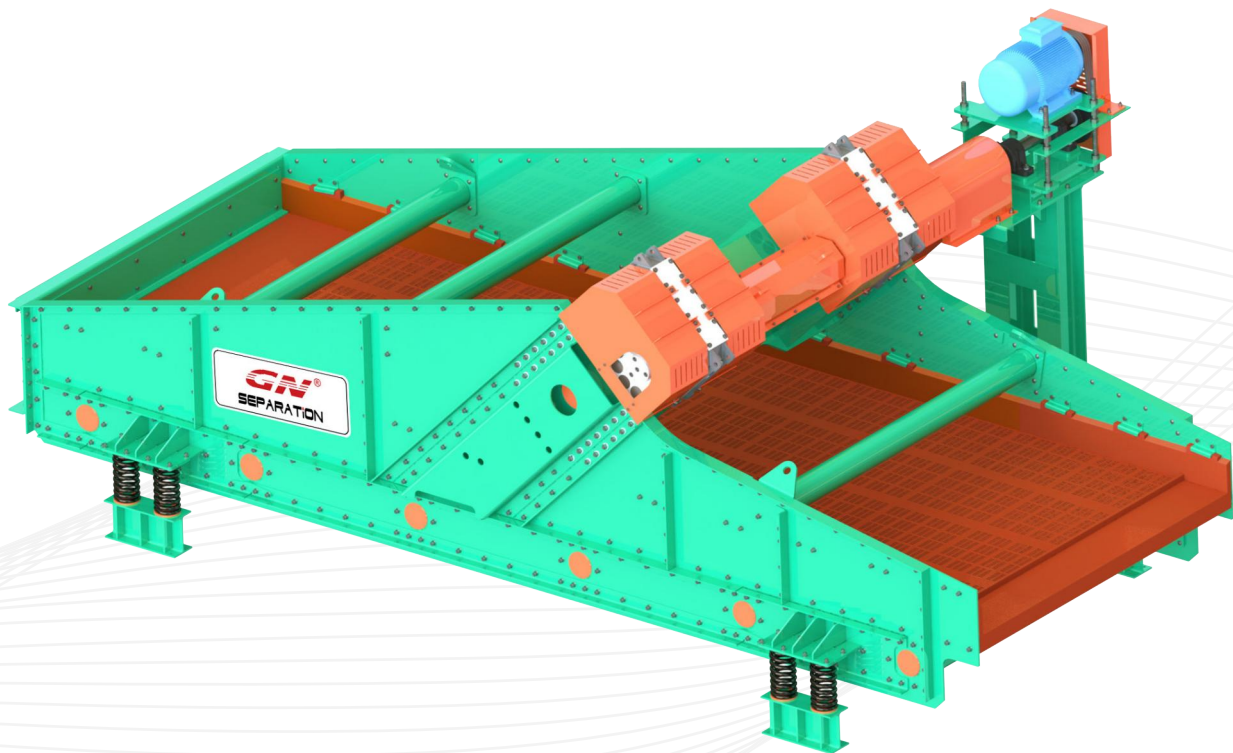
## Classification Vibrating Screen Main Parts



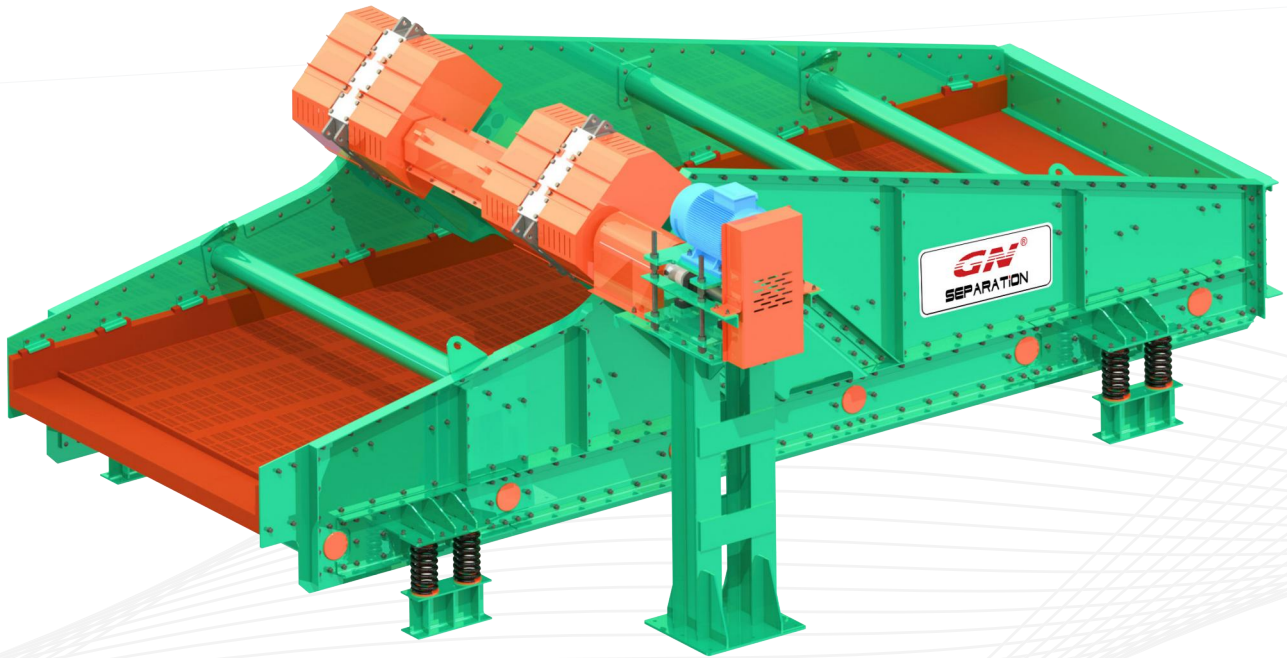
SN	Name
1	Vibrating Motor
2	Vibrating beam assembly
3	Upper beam assembly
4	Feed end beam assembly
5	Wallboard
6	Support base
7	Damping spring
8	Adjusting pad
9	Polyurethane screen panel
10	Rail seat

# Large Linear Vibrating Screen

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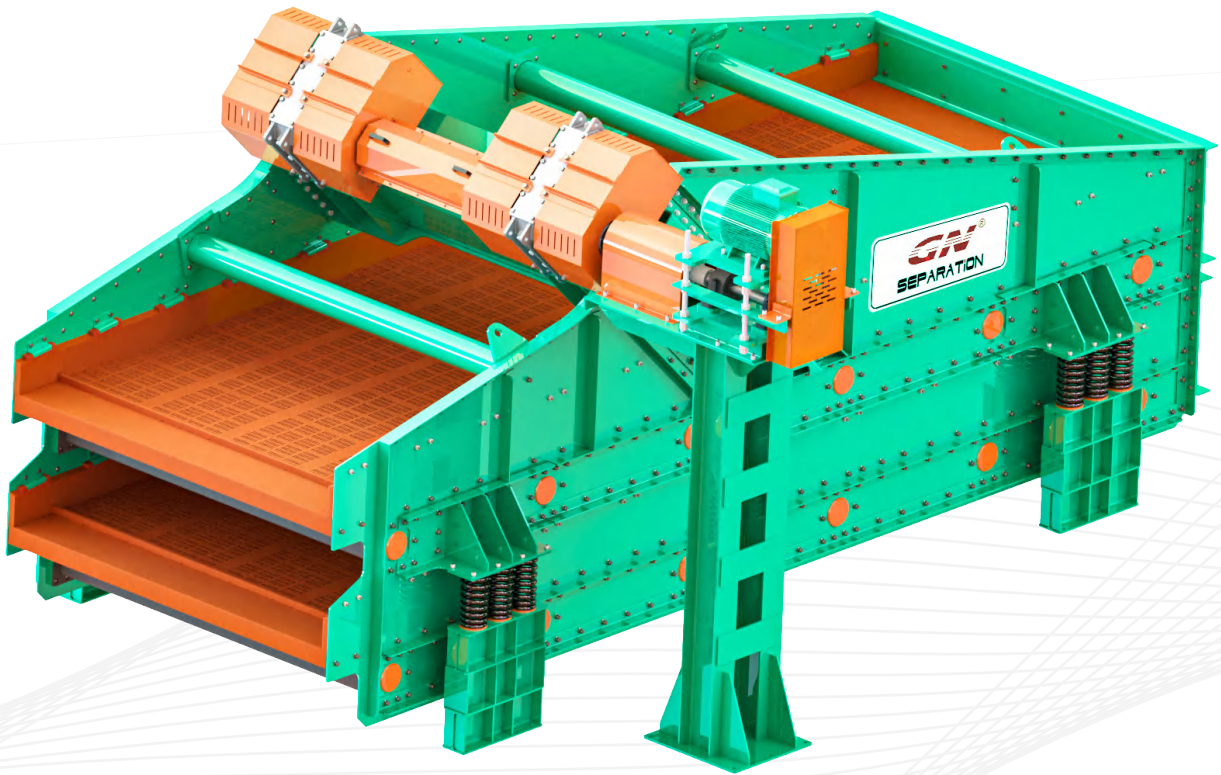


GN large linear vibrating screen is mainly composed of box type vibration exciter, screen box, vibration damping spring, support and driving device, and the running amplitude track is linear. The screen machine can be arranged horizontally or at an inclined angle. It is widely used in wet classification, dewatering, demineralization, tailings dry discharge and other process links in mineral processing, coal preparation, gravel aggregate, building materials, chemical industry and other industries. The screen surface structure is generally divided into single layer or double layer. The model of screen unit can be customized according to customer requirements.



## Large Linear Vibrating Screen (Single Deck)

Model	GNLS2461	GNLS3061	GNLS3661	GNLS3673	GNLS4361	GNLS4373
Screen Area m <sup>2</sup>	14.64	18.3	21.96	26.28	26.23	31.39
Vibration Direction Angle <sup>°</sup>	45					
Vibration Frequency Hz	14~16					
Power kW	30	30	30	45	55	55
Double Amplitude mm	7~10					
Mesh Size mm	0.2~25(Customized larger aperture available)					
Capacity t/h	60~240	80~300	100~480	100~700	120~800	120~900
Installation Inclination <sup>°</sup>	0					



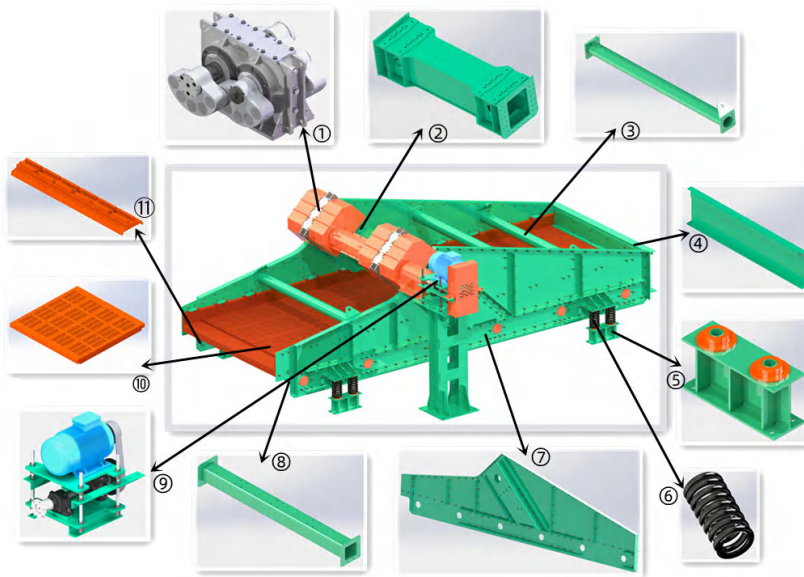
## Large Linear Vibrating Screen (Double Deck)

Model	GNLD2461	GNLD3061	GNLD3661	GNLD4373
Screen Area m <sup>2</sup>	14.64×2	18.3×2	21.96×2	31.39×2
Vibration Direction Angle°	45			
Vibration Frequency Hz	14~16			
Power kW	30	55	55	90
Double Amplitude mm	7~10			
Mesh Size mm	0.2~25(Customized larger aperture available)			
Capacity t/h	80~350	80~460	100~750	120~950
Installation Inclination°	0			

## Large Linear Vibrating Screen Features

- The screen machine wallboard is not welded, and the plate is made of high-strength alloy steel plate with better impact toughness. The imported Huck rivets are used for hydraulic tension assembly. This advanced design makes the wallboard free of welding residual stress.
- Through finite element analysis, optimize the structure and vibration parameters of the screen, avoid the natural frequencies of all levels of the screen, reduce the influence of resonance, and extend the service life of the whole machine.
- The cross beam under the screen adopts rectangular tube design; The exciting beam box structure is designed with light weight, high strength and good toughness. The post welding heat treatment process of main components can effectively eliminate welding stress.
- The surface of the beam is sprayed with polyurea by a spray machine imported from the United States. The parts that are easy to impact and wear can also be protected by rubber parts, which are resistant to erosion and wear.
- High efficiency helical gear box type exciter, with super large exciting force, ultra-low noise, stable operation and long service life; The eccentric block is arranged outside the exciter box, so that the amplitude can be adjusted by changing the counterweight setting.
- Product serialization to meet the production requirements of customers under different process conditions; Polyurethane screen panel is modular, more versatile and more convenient to replace.

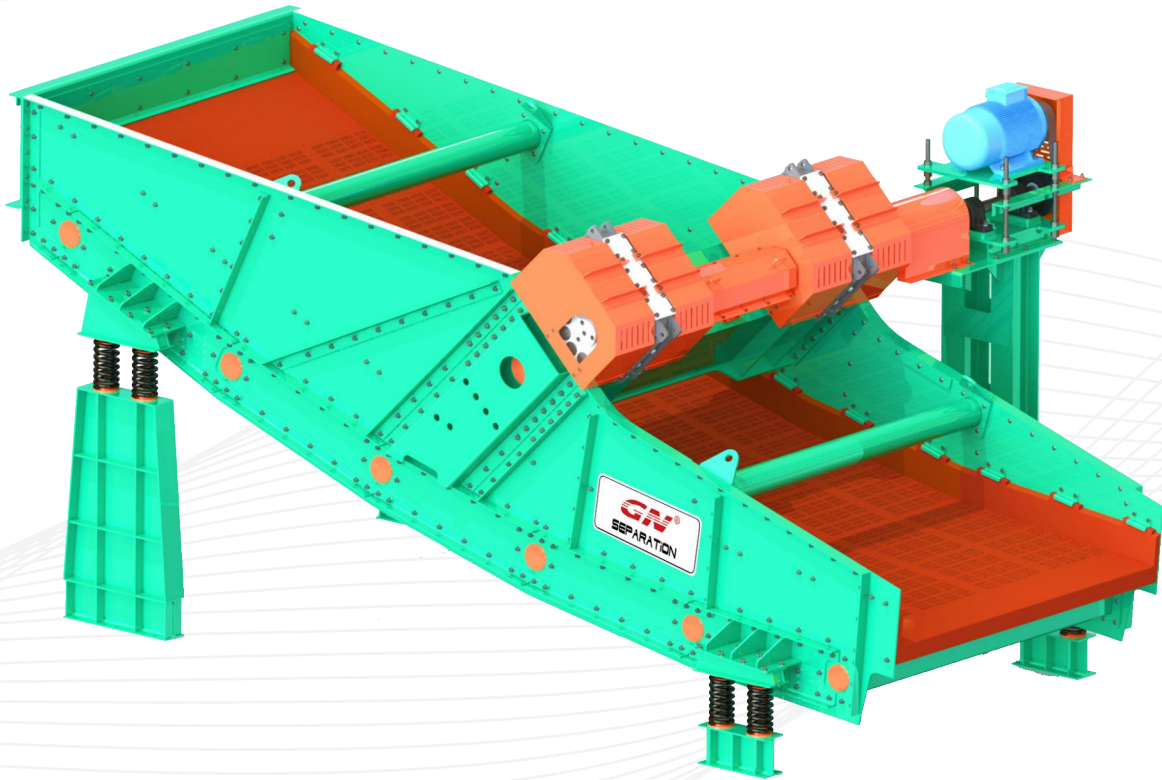
## Large Linear Vibrating Screen Components



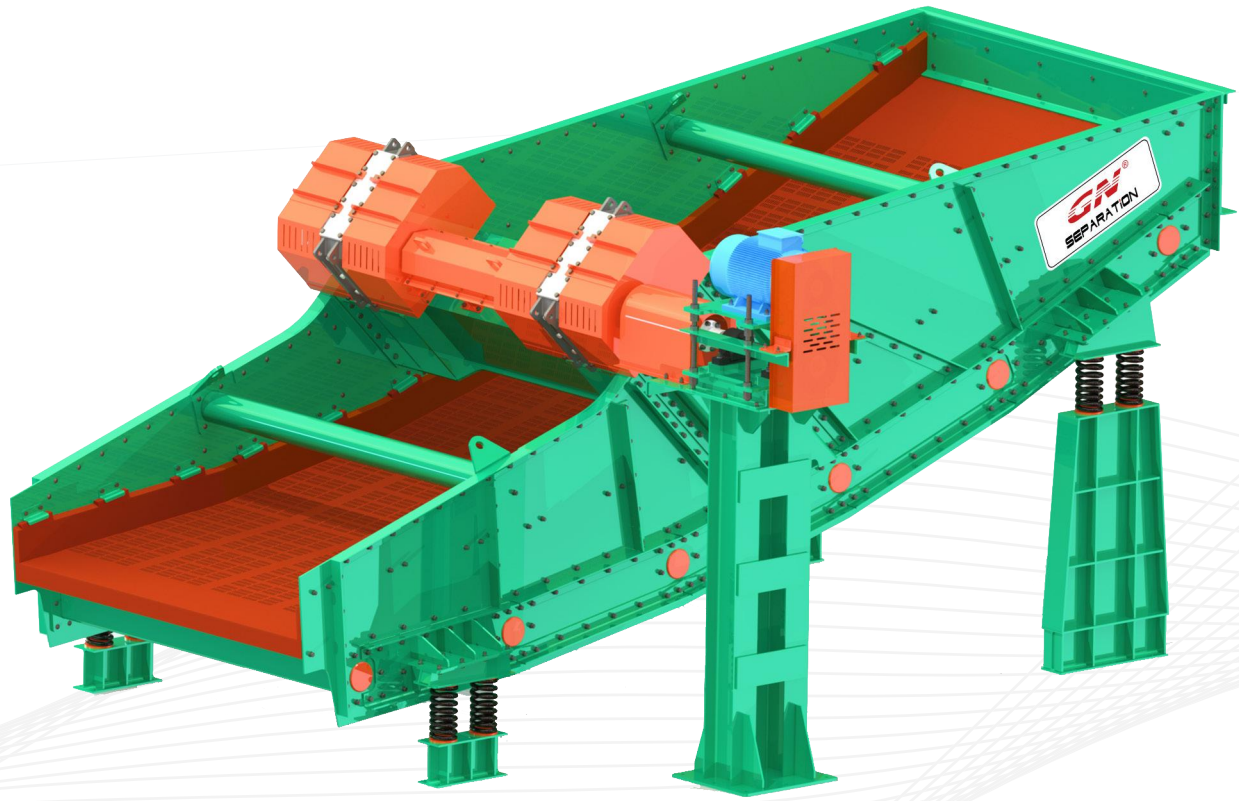
Item	Part Name
1	Box-type vibration exciter
2	Vibrating beam assembly
3	Upper beam assembly
4	Back plate
5	Lower support assembly
6	Metal damping spring
7	Wallboard assembly
8	Lower beam assembly
9	Driving device
10	Polyurethane screen panel
11	Rail seat

# Large Banana Vibrating Screen

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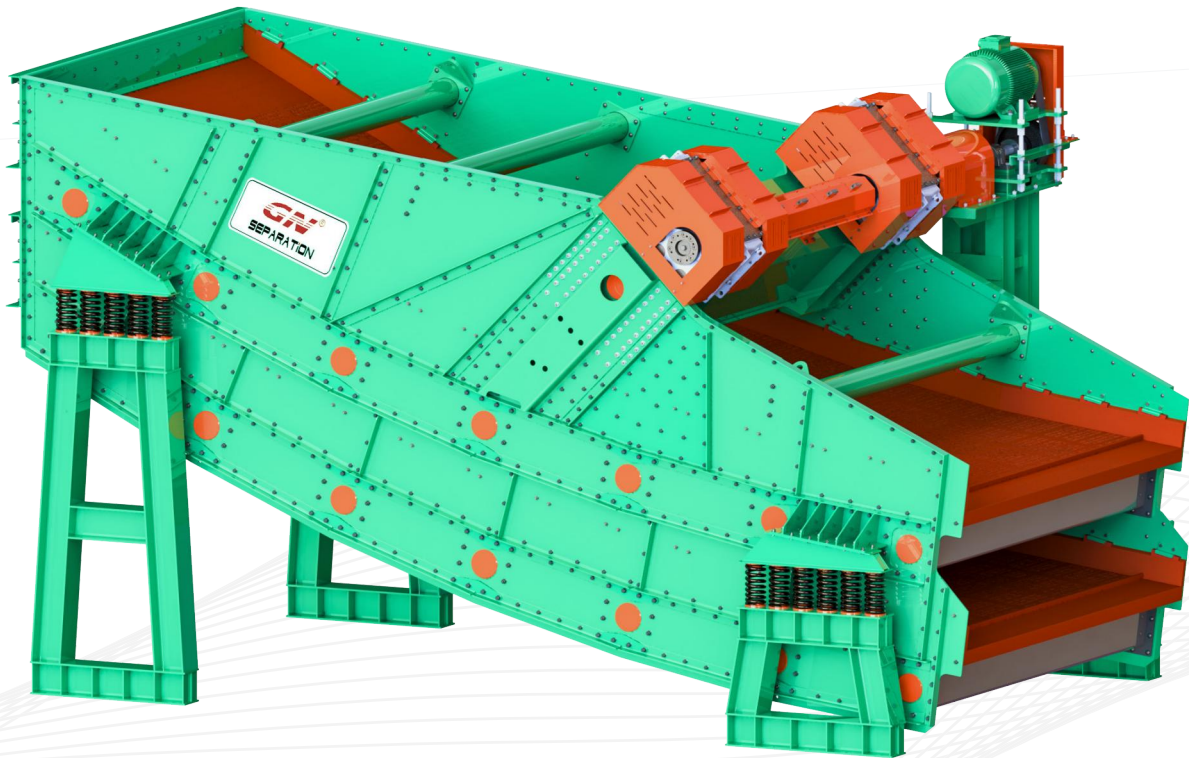


GN large banana vibrating screen is mainly composed of box type vibration exciter, screen box, vibration damping spring, support and driving device, and the running amplitude track is linear. The broken line screen surface design formed by the combination of continuous multi-stage angles is adopted, and the inclination angle of the screen surface at the feeding end is large, which can make the materials move and layer rapidly, which is conducive to the screening of easy screening materials. With the decrease of the inclination of the screen surface near the discharge end, the flow rate of the material decreases, which increases the screening probability of the material and improves the screening efficiency. GN large banana vibrating screen is mainly used in dry and wet classification, desliming, demineralization and other process links.



## Large Banana Vibrating Screen (Single Deck)

Model	GNBS2461	GNBS3061	GNBS3661	GNBS3673	GNBS4361	GNBS4373
Screen Area m <sup>2</sup>	14.64	18.3	21.96	26.28	26.23	31.39
Vibration Direction Angle <sup>°</sup>	45					
Vibration Frequency Hz	12.5~16					
Power kW	30	30	30	45	55	55
Double Amplitude mm	8~12					
Mesh Size mm	6~100					
Capacity t/h	110~440	200~550	260~700	300~800	350~900	350~950
Installation Inclination <sup>°</sup>	5~34					



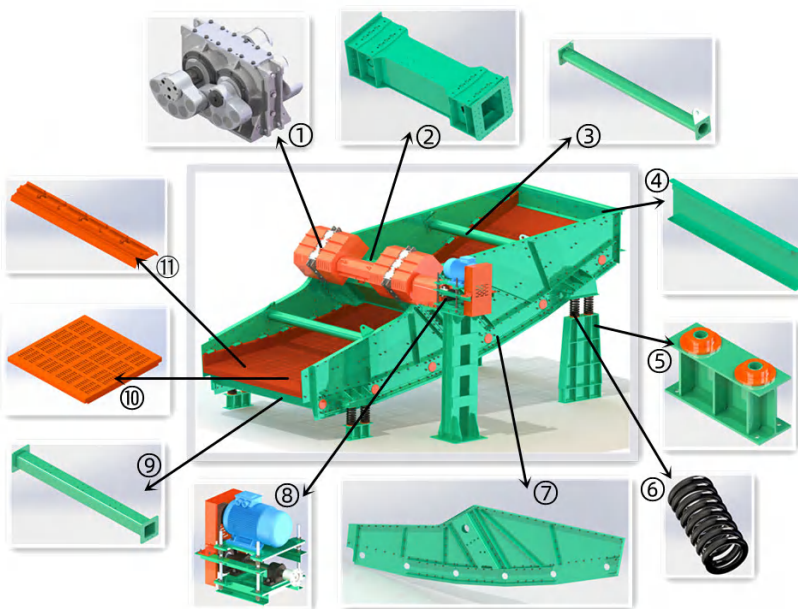
## Large Banana Vibrating Screen(Double Deck)

Model	GNBD2461	GNBD3061	GNBD3661	GNBD4385
Screen Area m <sup>2</sup>	14.64×2	18.3×2	21.96×2	36.55×2
Vibration Direction Angle°	45			
Vibration Frequency Hz	12.5~16			
Power kW	30	55	55	90
Double Amplitude mm	8~12			
Mesh Size mm	6~100			
Capacity t/h	200~900	300~1300	400~1500	600~1800
Installation Inclination°	5~34			

## Large Banana Vibrating Screen Features

- The screen machine wallboard is not welded, and the plate is made of high-strength alloy steel plate with better impact toughness. The imported Huck rivets are used for hydraulic tension assembly. This advanced design makes the wallboard free of welding residual stress.
- Through finite element analysis, optimize the structure and vibration parameters of the screen, avoid the natural frequencies of all levels of the screen, reduce the influence of resonance, and extend the service life of the whole machine.
- The cross beam under the screen adopts rectangular tube design; The exciting beam box structure is designed with light weight, high strength and good toughness. The post welding heat treatment process of main components can effectively eliminate welding stress.
- The surface of the beam is sprayed with polyurea by a spray machine imported from the United States. The parts that are easy to impact and wear can also be protected by rubber parts, which are resistant to erosion and wear.
- High efficiency helical gear box type exciter, with super large exciting force, ultra-low noise, stable operation and long service life; The eccentric block is arranged outside the exciter box, so that the amplitude can be adjusted by changing the counterweight setting.
- Product serialization to meet the production requirements of customers under different process conditions; Polyurethane screen panel is modular, more versatile and more convenient to replace.

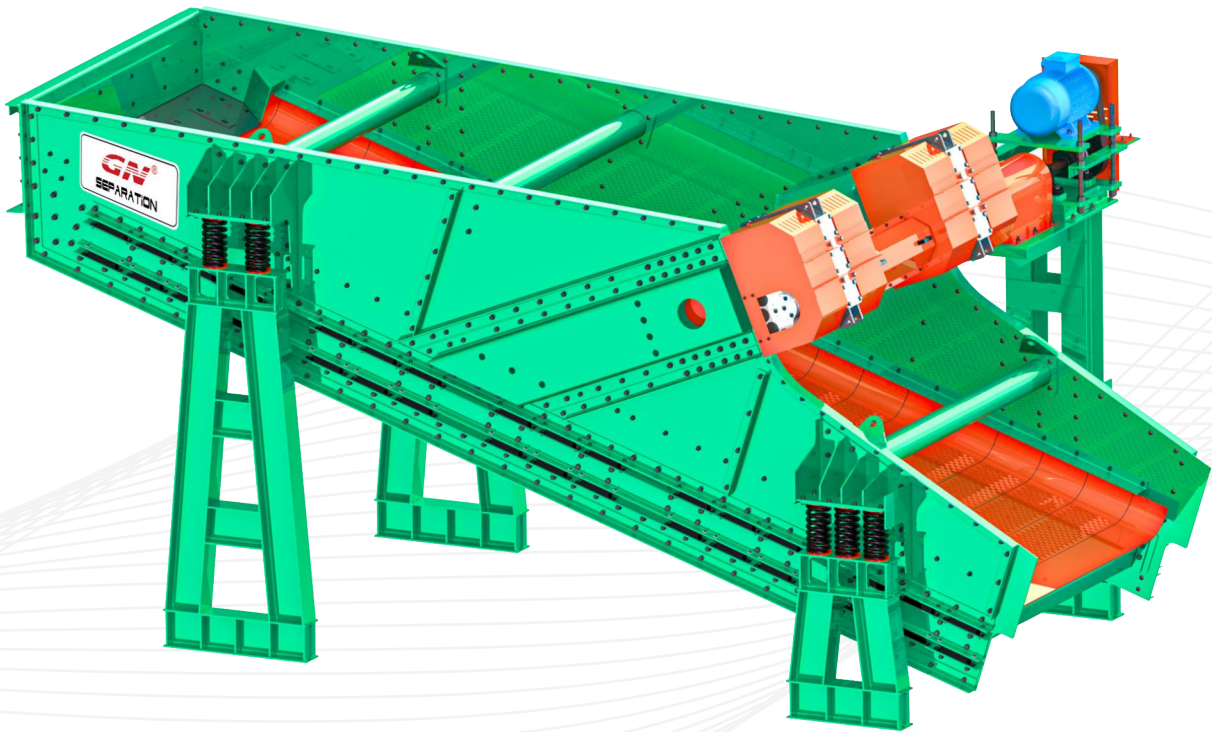
## Large Banana Vibrating Screen Components



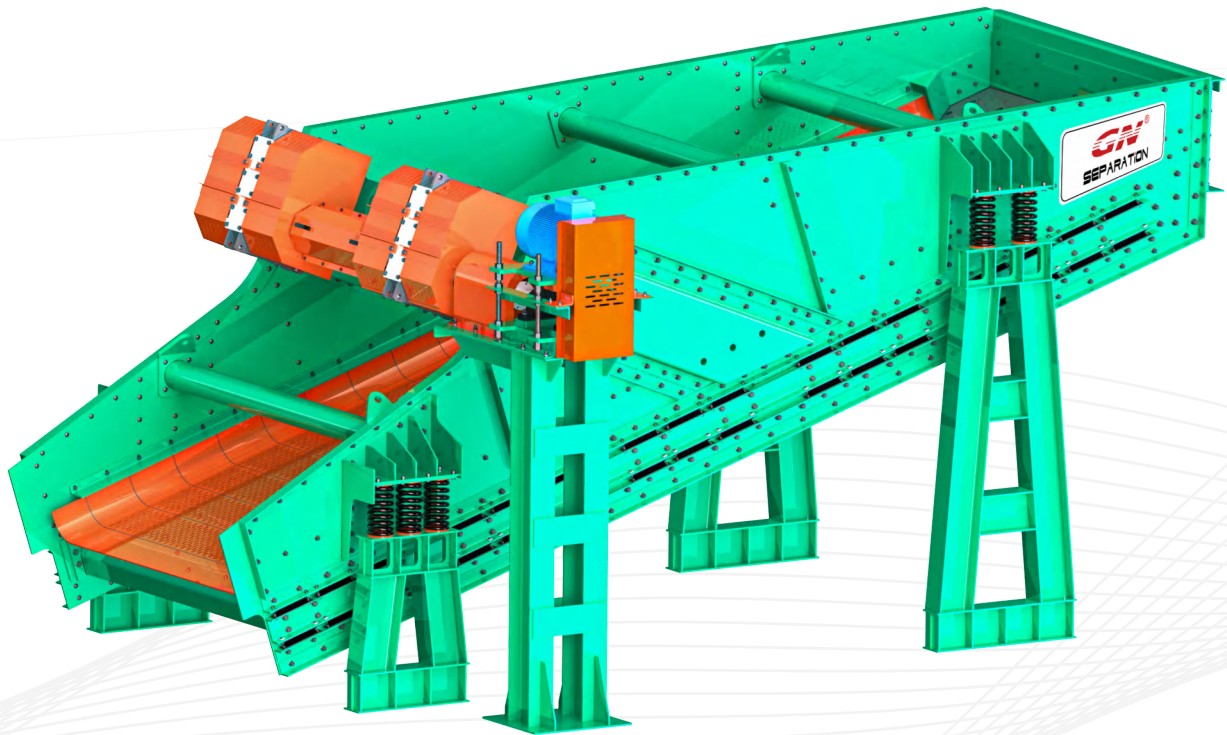
Item	Part Name
1	Box-type Vibration exciter
2	Vibrating beam assembly
3	Upper beam assembly
4	Back plate
5	Lower support assembly
6	Metal damping spring
7	Wallboard assembly
8	Lower beam assembly
9	Driving device
10	Polyurethane screen panel
11	Rail seat

# Large Flip-Flow Vibrating Screen

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GN Large Flip-Flow Vibrating Screen is mainly composed of box type exciter, main vibrating screen frame, floating screen frame, shear spring, damping spring, flexible polyurethane screen mesh, support and driving device. The running amplitude is linear. Flip-Flow Vibrating Screen adopts the principle of double mass near resonance, so that the floating screen frame has a large amplitude, and the screen surface can deliver the material with an acceleration of up to 50 G. It is widely used in dry screening of medium and fine-grained, wet, sticky and other difficult to screen materials. It is not easy to block holes and has high screening efficiency.



## Large Flip-Flow Vibrating Screen (Single Deck)

Model	GNFS2461	GNFS3061	GNFS3085	GNFS3673	GNFS3690	GNFS43100
Screen Area m <sup>2</sup>	14.64	18.3	25.5	26.28	32.4	43
Vibration Direction Angle°	40					
Vibration Frequency Hz	12.5~13.33					
Power kW	30	30	55	55	55	55
Double Amplitude mm	12~16					
Mesh Size mm	6~25					
Capacity t/h	110~440	200~550	260~700	300~800	350~900	350~950
Installation Inclination°	15~20					



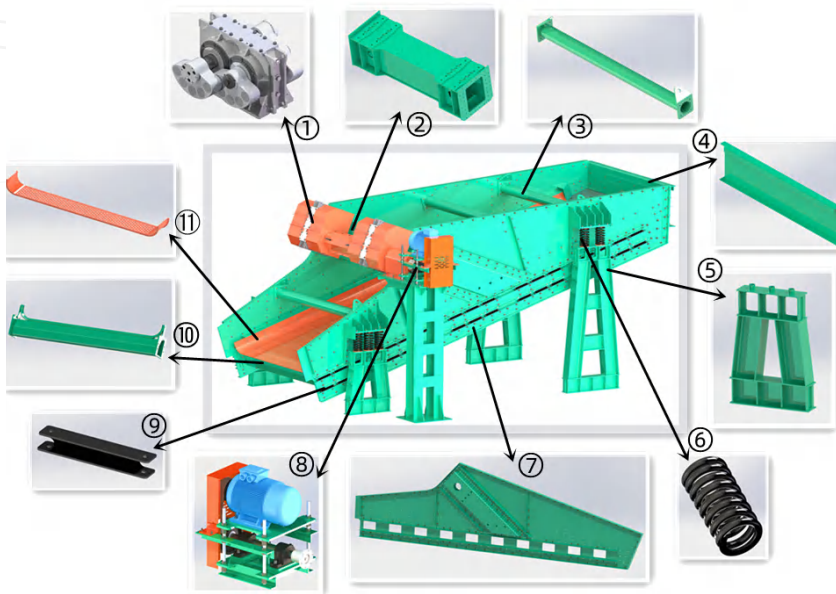
## Large Flip-Flow Vibrating Screen (Double Deck)

Model	GNFD2461	GNFD3085	GNFD3690	GNFD43100
Screen Area m <sup>2</sup>	14.64×2	25.5×2	32.4×2	43×2
Vibration Direction Angle°	40			
Vibration Frequency Hz	12.5~13.33			
Power kW	30	55	55	90
Double Amplitude mm	12~16			
Mesh Size mm	6~25			
Capacity t/h	200~600	300~900	400~1000	600~1200
Installation Inclination°	15~20			

## Large Flip-Flow Vibrating Screen Features

- The screen machine wallboard is not welded, and the plate is made of high-strength alloy steel plate with better impact toughness. The imported Huck rivets are used for hydraulic tension assembly. This advanced design makes the wallboard free of welding residual stress.
- Through finite element analysis, optimize the structure and vibration parameters of the screen, avoid the natural frequencies of all levels of the screen, reduce the influence of resonance, and extend the service life of the whole machine.
- The cross beam under the screen adopts rectangular tube design; The exciting beam box structure is designed with light weight, high strength and good toughness. The post welding heat treatment process of main components can effectively eliminate welding stress.
- The amplitude of the floating screen frame can be adjusted by changing the number of shear springs.
- High efficiency helical gear box type exciter, with super large exciting force, ultra-low noise, stable operation and long service life; The eccentric block is arranged outside the exciter box, so that the amplitude can be adjusted by changing the counterweight setting
- The polyurethane screen mesh is installed by pressing, which is more convenient to replace. The elastic deformation of the screen mesh has the function of self-cleaning the mesh, and can effectively solve the problem of clogging of fine, wet and viscous materials.

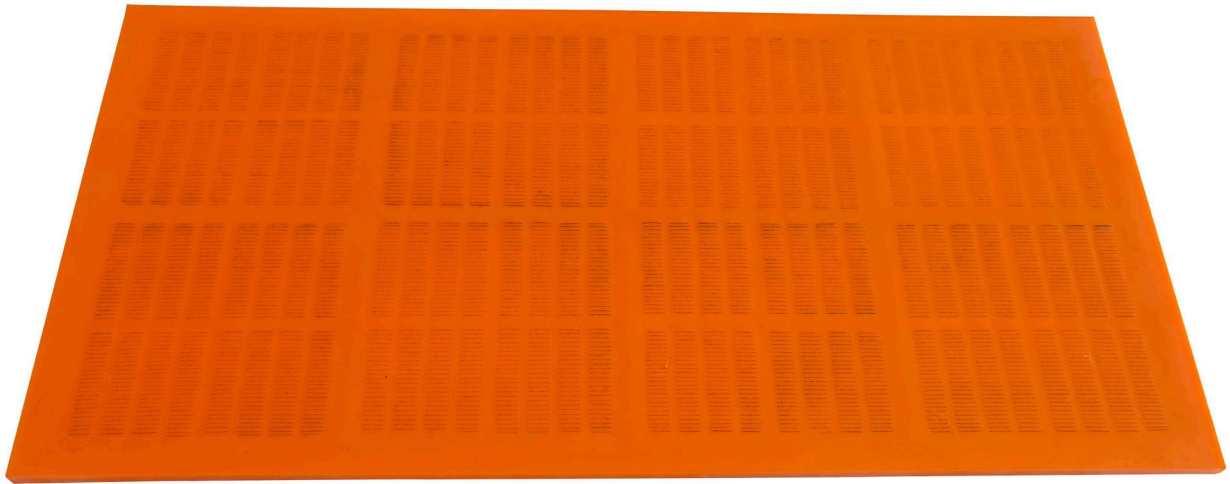
## Large Flip-Flow Vibrating Screen Components



Item	Part Name
1	Box-type vibration exciter
2	Vibrating beam assembly
3	Upper beam assembly
4	Back plate
5	Lower support assembly
6	Metal damping spring
7	Wallboard assembly
8	Driving device
9	Shear spring
10	Floating beam assembly
11	Polyurethane screen mesh

## Polyurethane Screen Panel

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GN Polyurethane Screen Panel is commonly used in dewatering and classification of mineral process and construction industries. GN polyurethane screen panel is manufactured by the processing technology of steel wire covered with polyurethane. It is characterized by firm structure and durability. GN polyurethane screen panel adopts high-quality polyurethane raw materials, which has excellent elasticity, super wear resistance and good screening efficiency. All polyurethane raw materials and their proportion have been tested and strictly selected, and advanced injection molding technology and precision designed & manufactured molds are used for injection molding, which can guarantee GN polyurethane screen panel completely customized according to your needs. Opening shape and opening size, screen plate thickness, fixing method, overall size and other elements can be arbitrarily determined. GN polyurethane screen panel can also realize various surface shapes on the screen plate: retaining dam, anti smashing strip, guide strip and guide block to improve the screening efficiency.



## Common opening size

Model	Standard Type		Efficiency type		Lifetime Type	
	Screen bar diameter (MM)	Opening rate (%)	Screen bar diameter (MM)	Opening rate (%)	Screen bar diameter (MM)	Opening rate (%)
8	4	14	3	53	6	33
10	4	51	3	59	6	39
12	6	44	4	56	8	36
14	6	49	4	60	8	40
16	6	53	4	64	8	44
18	7	52	6	56	10	41
20	7	55	6	59	10	44
22	8	54	6	62	10	47
24	10	50	8	56	12	44
27	12	48	10	53	12	48
30	12	51	10	56	12	51

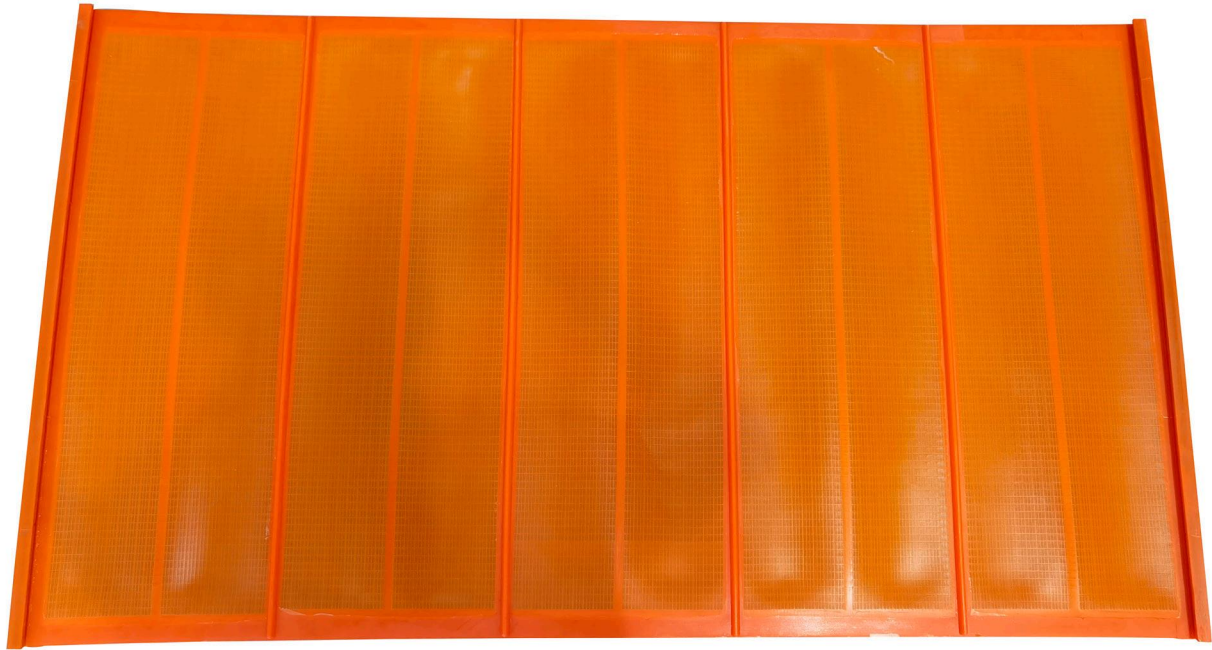
Note: the overall dimension and structure of the installation can be customized.

## Polyurethane Screen Panel Features

- Polyurethane screen panel has a long service life: Generally more than 6 months, up to one year. Its service life is 8 ~ 10 times longer than traditional metal screen, 3 times longer than SS screen and 3.9 times longer than natural rubber.
- The production material of polyurethane screen panel belongs to polymer organic elastomer, which has good wear resistance, flexing resistance and large loading capacity.
- High screening rate, self-cleaning screen surface, anti-plugging.
- Polyurethane elastic screen panel uses steel wire or metal frame as the skeleton material, which can improve the bending flexibility and increase the loading capacity.
- Product serialization to meet the manufacturing requirements of customers under different process conditions; Polyurethane screen panel is modular, more versatile and more convenient to replace.
- The cone angle of the screen hole is greater than 140 °, and the water permeability of polyurethane is strong, which can effectively prevent the adhesion of wet fine particles, so it is suitable for the screening and separation of wet fine materials.
- The use of metal mold can ensure accurate screen opening, high opening rate and high screening efficiency.
- Multiple choices of hole types: Rectangle, square, circle and other shapes.
- Wide application range and strong industrial applicability: the screening of various materials within the range of 0.1mm-170mm, whether dry or wet, will not affect the screening rate. The advantages of polyurethane screen panel are more fully displayed for dehydration and demineralization screen in the range of 0.5m-3mm.
- Good moisture resistance. It can be used in water or oil and water medium, which can improve the service efficiency and service life.
- Adopt the modular installation method (300\*600mm, 305\*610mm and 610\*610mm), which significantly reduces the use cost, convenient for replacement and installation, and reduces the work intensity of replacement.
- Various product line, GN polyurethane screen panel can match global well-known brand screening machines.
- Low noise. No matter what substances and materials are screened during use, there will be no great noise, reducing the noise level by up to 9 dB. This is a 50% reduction in noise perceived by the human ear.
- Polyurethane screen panel is not easy to rust, and the storage life is greatly extended. It can be stored for more than 5 years without affecting the service life.

## Polyurethane Screen Mesh

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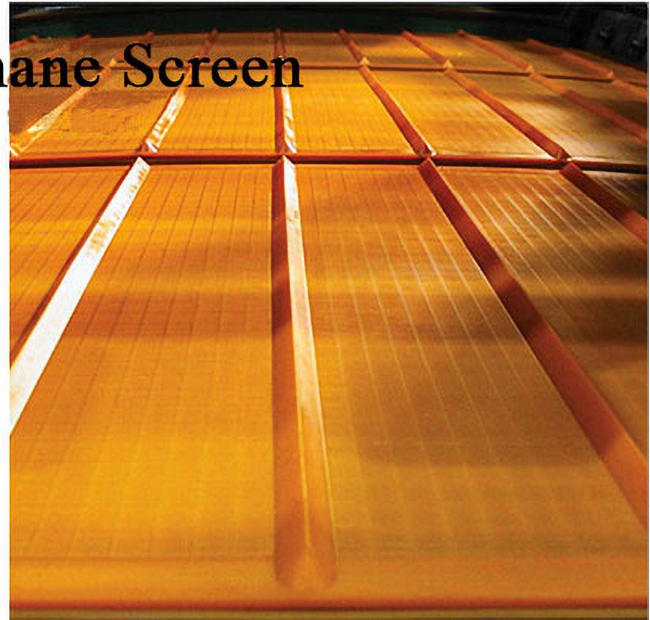
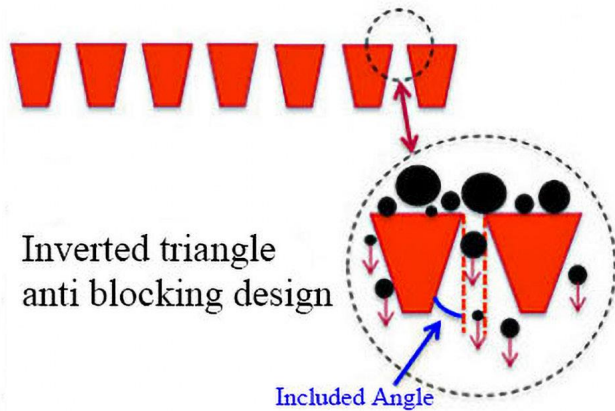
Polyurethane screen mesh is often used to adapt to Fine Vibrating Screen and Stack Vibrating Screen. It can be used in vibrating dehydration, material classification and other applications. GN polyurethane screen mesh is a kind of high molecular polyurethane elastomer, which has excellent physical and mechanical properties: high strength, large elasticity and good wear resistance. The opening rate of polyurethane screen mesh is 28% ~ 45%. GN is committed to providing customers with flexible polyurethane screen mesh with finer mesh, higher opening area and better polyurethane screen surface. By adopting advanced production technology and precision designed and manufactured molds, GN creatively combines long life with high opening area, large treating capacity and excellent performance to meet the requirements of efficient separation.



## Specifications

Screen Mesh Size	Mesh Width (mm)	Mesh Length(mm)	Opening Rate(%)
<b>Both length and width can be customized</b>	0.045	2.65	9.4
	0.063	2.65	14.3
	0.075	2.65	18.73
	0.1	2.65	23.41
	0.12	2.65	30.6
	0.15	2.65	30.9
	0.19	2.65	31.77
	0.23	2.65	35.67
	0.25	2.65	36.6
	0.32	2.65	39.6
	0.4	2.65	42.5
	0.5	2.65	44.5
	0.7	2.65	46.8
	0.8	2.65	48.4
	0.9	2.65	51.5
	1.0	6	55.6
	1.2	6.4	47.8
4	8	62.2	

## Polyurethane Screen



### GN polyurethane screen mesh Features

- The mesh size can be as low as 0.045mm (325 mesh), which can realize ultra-fine screening.
- Excellent wear resistance and high impact resistance. The imported MDI polyurethane material is the most wear resistant screen mesh material in the world.
- Polyurethane screen mesh has a long service life: generally more than 6 months, up to 1 year.
- The production material of polyurethane screen mesh is polymer organic elastomer, which has good wear resistance, flexing resistance and large loading capacity.
- Inverted triangle anti blocking three-dimensional design, high screening rate, self-cleaning screen surface, anti-plugging, high screening rate, and strong water permeability of polyurethane, which can effectively prevent the adhesion of wet fine particles, suitable for the screening and separation of wet fine materials.
- Wide range of application and strong industrial applicability: the mesh of the screen for wet materials can be as low as 0.045mm (325 mesh), and the mesh of the screen for dry materials can be as low as 0.104mm (140 mesh).
- Customized sizes can match well-known brands at home and abroad, such as GN Separation & Conveying fine vibrating screen, Derrick TH48-30, etc
- Polyurethane screen mesh is not easy to rust, and the storage life is greatly extended. It can be stored for more than 5 years without affecting the service life.



GN Website



GN Video



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