ULTRASONIC VIBRATING SCREEN

Ultrasonic Vibrating Screen I Product Introduction

DH series ultrasonic fine vibration screen is a high-precision and high-stability ultrasonic vibration screening machine developed by Ningbo Luoshang with German technology. It uses the intelligent ultrasonic controller designed by Professor Cui of Shanghai Jiao Tong University, and is assembled with imported original components that are finely tuned and combined, changing the non-adaptability and non-adjustability brought about by a single frequency, and truly achieving the organic combination of CNC and vibration screening. Its performance level reaches and surpasses that of international similar products, completely surpassing domestic products!

DH series ultrasonic fine vibration screen solves the screening difficulties of strong adhesion, easy agglomeration, high static electricity, high fineness, high density, and low bulk density, and has outstanding performance! It achieves a great breakthrough in performance.

Screening accuracy of the DH series ultrasonic fine vibration screen can be improved by 1-100%, and the output can be increased by 1-20 times. It truly meets the industrial production needs above 600 mesh!

Ultrasonic fine vibration screening instrument can be widely used in industries such as pharmaceuticals, metallurgy, chemical industry, mineral processing, and food.

Ultrasonic Vibrating Screen I Working Principle

Ultrasonic fine vibration screen consists of an ultrasonic generator, transducer, resonance ring, resonant screen frame, and vibration platform. For better performance, please use it with matching equipment and do not mix it with other ultrasonic devices.

High-frequency electrical signal generated by the ultrasonic generator is converted into a high-frequency sinusoidal longitudinal oscillation wave by the transducer. These oscillation waves are transmitted to the resonance ring to make it resonate. The resonance ring then uniformly conducts the high-frequency vibration to the entire screen surface. While the material is vibrating at low frequency on the screen, a high-frequency ultrasonic vibration is superimposed to solve the problem of material blockage and improve the screening accuracy and efficiency.

Table Of Commonly Used Mesh Sizes And Corresponding Micrometers

Mesh Size	Micrometer	Mesh Size	Micrometer
20	850	120	125
25	710	140	106
30	600	170	90
35	500	200	75
40	425	230	63
45	355	270	53
50	300	325	45
60	250	400	38
70	212	450	32
80	180	500	25
100	150	635	20

ULTRASONIC VIBRATING SCREEN

Application Scope

- Efficient electromagnetic drive, with electronic control of amplitude and frequency
- Separation, classification, determination of particle size
- Suitable for dry or wet screening of any freely flowing dispersed material; grading of solid particles
- Agriculture, soil, coal, synthetic materials, chemicals, geology, metallurgy, building materials, environment, resources, glass, ceramics, biology, etc.
- Laboratories in industries such as pharmaceuticals, metallurgy, chemicals, mining, and food

Precautions

- Characteristics of the tested materials. It is usually used to test powdery and granular materials with good fluidity. If the material has certain stickiness, agglomeration, or adsorption, please specify when selecting the appropriate model.
- The feeding amount is generally within 300g to avoid affecting the screening accuracy due to excessive material.
- The feeding particle size is generally between 0.038-3mm.

Technical Parameters

Model	DHSF-U1
Output Frequency	30KHz～40KHz
Sieving Machine Power	120W
Ultrasonic Power	30-150W
Sieving Machine Rotation Speed	1440r/min
Sieve Specification	20～1000 mesh
Sieve Diameter	200mm
Sieve Layer	1-7 layers (customized according to customer's requirements)
Total Weight	30kg
Dimensions	330*390*760mm
Operating Temperature	-15°C～65°C
Input Current	0.1A～0.3A
Input Voltage	220±10% 50～60Hz