

Operating Instruction

HIGH FREQUENCY SCREEN

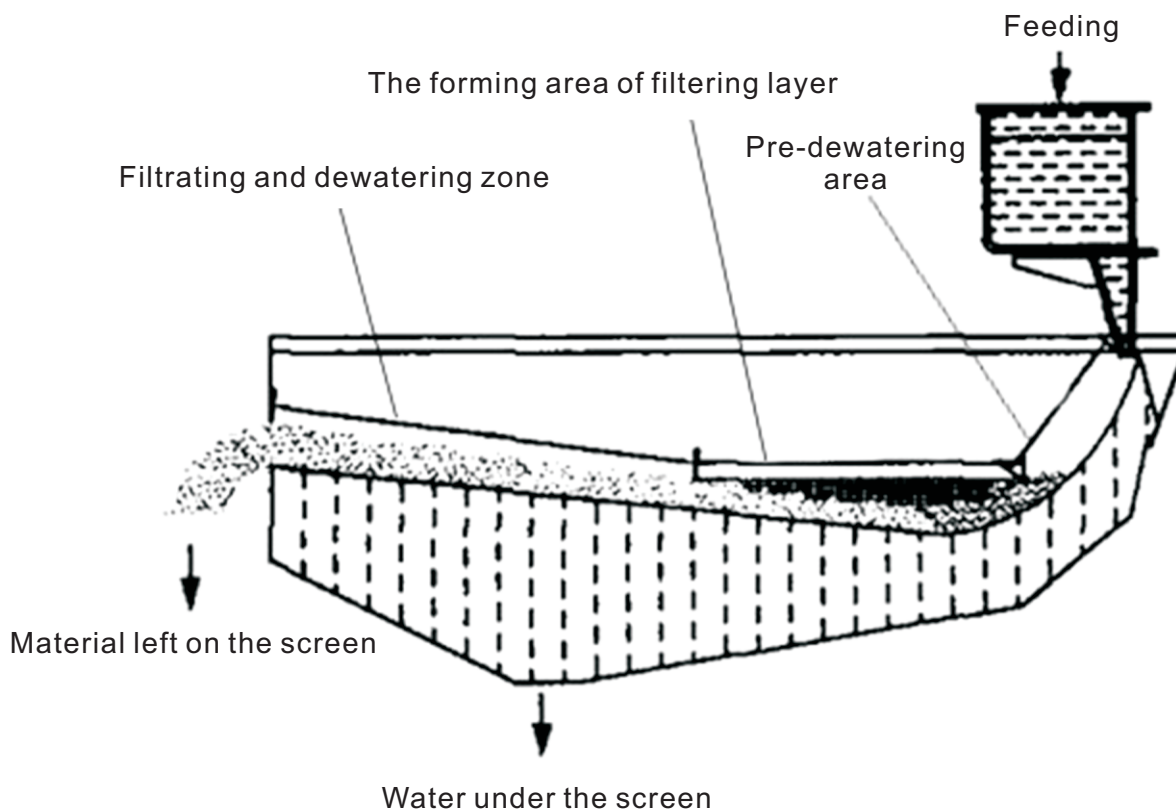


Henan Hongxing Heavy Machinery Co., Ltd.

The Component Parts and Function of High Frequency Screen:

High frequency screen is composed of exciter, pulp distributor, screen frame, rack, hanging spring and screen mesh. High frequency vibration fine screen is called high frequency screen for short and it is a type of classifying machine used

in the ore dressing plant. The gap width of the grating of the screen is different, so that it classifies materials according to the material sizes.



The Advantages and Benefits of High Frequency Screen:

High frequency screen has high efficiency, small amplitude and high screening frequency. Different from the working principle of common screening equipment, high frequency screen uses high frequency, which on the one hand breaks the tension of the ore pulp surface, and

on the other hand, the fine particles vibrate with high speed on the screen surface, thus accelerating the separation of big density and useful minerals and increasing the probability that the materials smaller than the separation granularity contact the screen hole.

Characteristics:

Processing ability: 15–48 t/h

Thickness of input material: 30%–40%

Power: 0.72–2.2 kw

Screen area: 4.5–8.1 m²

Applied material: iron ore, tin, tungsten, tantalum, niobium, etc



Features

High frequency screen is composed of exciter, pulp distributor, screen frame, rack, hanging spring and screen mesh. It has high efficiency, small amplitude and high screening frequency.

Technical data :

Specification	Screen area (m ²)	Thickness of input material (%)	Processing capacity (t/h)	Power(kw)
GPS-4	4.5	30%-40%	15-25	0.72
GPS-5	5.2	30%-40%	20-30	1.1
GPS-6	6	30%-40%	24-36	1.5
GPS-8	8.1	30%-40%	32-48	2.2

Working principle:

In the return circuit of the ore grinding process, this machine is used for the control and classification of the grinding ore product and screen out the coarse particles and the raw materials on the screen and return them to the grinding mill for re-grinding. The fine particles under the screen can be timely discharged to avoid re-grinding and over crushing. Timely screening the materials that reach the fineness requirement can improve the output of the grinding mill, reduce the energy consumption and improve the economic benefits. Installing a high frequency screen in the dressing return circuit can screen the coarse ore concentrate and send it to the grinding mill for re-grinding, and the fine particles under the screen are concentrated to improve the taste of the ore concentrate.



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