



Vibratory Screens

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Dewatering of sand



- Coal
- Glass
- Mining
- Cement
- Chemicals
- Aggregates
- Feed and Grain
- Material Handling
- Tramp Material
- Classification
- Dewatering
- Separation
- Particles
- Coarse
- Grizzly
- Fines

Drive:



← Every JVI Screen is customized, engineered and manufactured for the specific application.

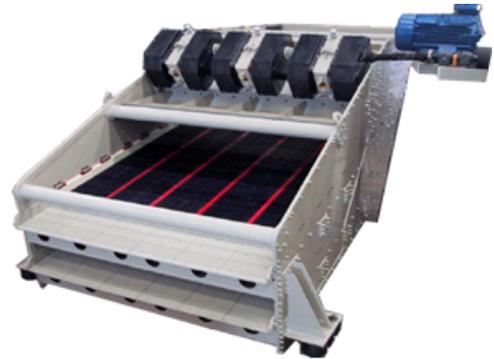
Vibratory Screening Equipment

JVI manufactures high performance application specific screening equipment for a wide variety of uses such as dewatering, classification, coarse separation and controlling particle size. All screen designs are customized to fit application requirements. Screens are available with one, two or three decks. The drive mechanism is a vibratory drive of appropriate size. Screens are supported by heavy-duty, rubber or coil springs to isolate vibration from affecting the support structure. When designing screens, JVI relies on proven standards to determine the optimum structural design for a screen. This method takes into account JVI's extensive experience with the effect of resonance, asymmetry, material load and the influence of the machine's center of gravity on the screen.

Types of Screening Jobs

Classifying

Separating any size of solids into two or more fractions is called classification. The screening efficiency is the percentage of over sizes in a single fraction. JVI vibratory screens offer the highest efficiencies on an optimally sized screening surface.



Control Screening

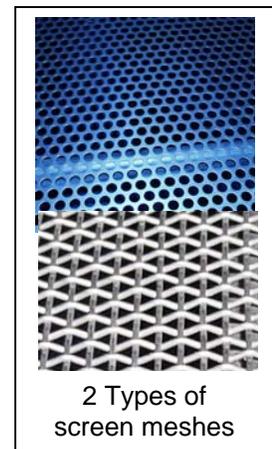
In control screening a high fraction of good material is removed from oversize or undersize material.

Grizzly Screening

Grizzlies are ideal for high capacity, coarse particle separation. Grizzlies are typically installed upstream of a crusher. The fines are removed to reduce the load, and also the wear, on the crusher. Adding a second deck can reduce fines into two fractions.

Dewatering

This is separation of solids from liquids. Best results are achieved by upwardly inclining the screen to "cake" the material. Moist sand, for example, coming from a degrader, is dewatered so that it can be conveyed by belts.



2 Types of screen meshes

Design Options

Standard perforated *screen plates* are available as well as welded grids and wire-cloths. Screen plates can be made of rubber or plastic if required. Depending on the application, screen boxes are of high quality bolted, "huck bolted", or welded construction and an appropriate material. JVI screens can also be equipped with: Feed / Distribution sections, discharge bottom for fine, inlet and outlet socket with collar, vibrating or stationary cover, inspection and service hatches, dust suction socket, automatic screen cleaning devices, wear liners, and sprinklers for wet screening.

Consider JVI Spreading Feeders to feed a screen. The screen efficiency is increased and maintenance is reduced when material is spread evenly across the screen inlet.