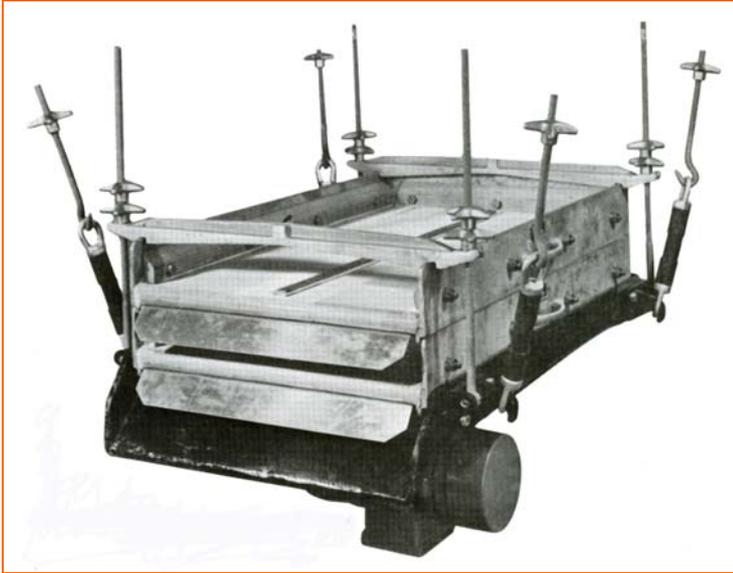


Vibratory Wet Sifting Machine



Two Deck Vibratory Wet Sifting Machine

Incorporating stainless steel lawn screen cloth in aluminium frames this machine has been developed principally for use in the ceramics industry for grading liquid slip used in the production of pottery and paper.

Applications

Multi-deck machines are used in two situations:

- To provide a “scalping” effect when large throughputs are required, especially if a high degree of purity is desired.
- For removal of usable solids for further use (reclamation) or clarification of liquids.

Construction

The machine consists of a cast aluminium underbody (optional PVC coated body available) which performs three functions:

- To support up to three screens, often termed “lawn frames”*.
- To provide mounting for the 500 watt “out-of-balance” rotary vibrator motor and suspension units.
- To accept the undersize from the screens and discharge via a single integral outlet pipe.

* Lawn frames are secured in position by two cast aluminium clamp bars, retained by eye bolts and star handles for quick release.

Installation

The Sifting Machine should be mounted using the four rubber suspension units which are attached to the base of the machine. The tops of these end in eye nuts, designed to accept adjustable hook bolts (supplied only if specified by the customer), which must be securely fixed to a strong, stationary section of the surrounding installation. By adjusting the hooked bolts the unit may be tilted towards the discharge end of the screens to encourage the flow of certain slurries.

The “Out-of-Balance” vibrator motor must be set up to rotate in an anti-clockwise direction when viewed with products discharging from the left. This ensures that the vibratory motion propels the oversize particles towards the discharge end.

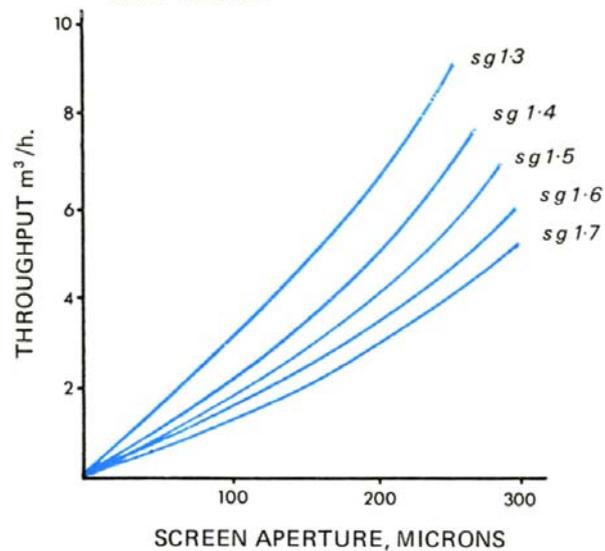
It is important that sufficient space, at least 50mm, surrounds the unit to allow for exaggerated oscillation of the motor as it slows down when deactivated.

Operation

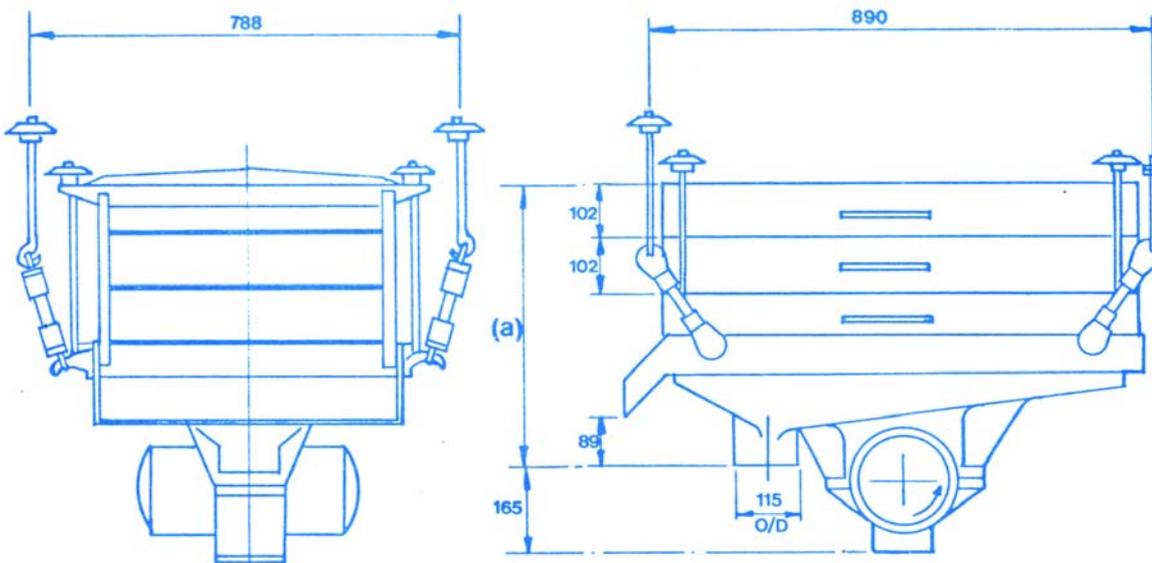
Suitable receptacles are placed in position to receive the separated fraction from the sifting machine outlets, and the vibrator motor is put into operation.

The slurry is introduced in a uniform distribution across the width of the machine at the back end of the uppermost screen. Particles of a specific size and less will pass through the mesh, whilst oversize particles will discharge from the top of the screen. Occasionally the process requires that accumulated oversize is removed manually from the screen and this is accomplished by scraping with a squeegee and spraying with water.

TYPICAL THROUGHPUTS FOR CLAY SLURRY



Dimensions



Dimensions in mm

TYPE	Dimension (a)	Nett Weight
SINGLE DECK	316	78 kg
DOUBLE DECK	418	114 kg
TRIPLE DECK	520	149 kg

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