

## Pre-screener

### Description

The ITE **Pre-screener** is designed for pre-scalping of solids in heterogeneous solid-liquid mixtures. In the chain of a separation system the pre-screener forms the first link and separates coarse and abrasive materials such as concrete and wood particles to protect the downstream screening machines. Due to its robustness and the steeply inclined strainer bars the pre-screener is able to separate high flow rates without flowing over. The screens of the downstream screening machines have thereby a much longer durability.

The ITE Pre-screener is a compact pre-scalping unit designed for installation on a modular ITE vibration shaker (3PSM/4PSM) by means of a framework. The vibration motor sets the steel box installed on 4 springs into motion and thereby the strainer bars separate the solid particles from the liquid. The pre-screener is able to separate solids with a grain size  $\geq 6.5$  mm. The fineness of separation depends on the spacings of the strainer bars used.

### Characteristics

- Separation of solids with a grain size  $\geq 6.5$  mm
- Protection for downstream screening machines against coarse and abrasive solids
- Equipped with strainer bars consisting of a robust steel-polyurethane frame and flexible stainless steel bars
- Two-stage screen angle appliance for flexible adjustment subject to slurry properties
- Height adjustable weir at the solids outlet
- Use of robust and high-quality materials for long lifetime



III. 1: ITE Pre-screener

### Transport Dimensions

- Length: 2140 mm
- Width: 2685 mm
- Height: 2000 mm
- Weight: approx. 2600 kg

*(Specifications without platform & framework)*



III. 2: Screen angle adjustment

## Technical Specifications

- **Vibration Motors**

- Number of motors: 1 nos.
- Power: 0.75 kW
- Voltage: 400 V / 50 Hz

- **Strainer bars**

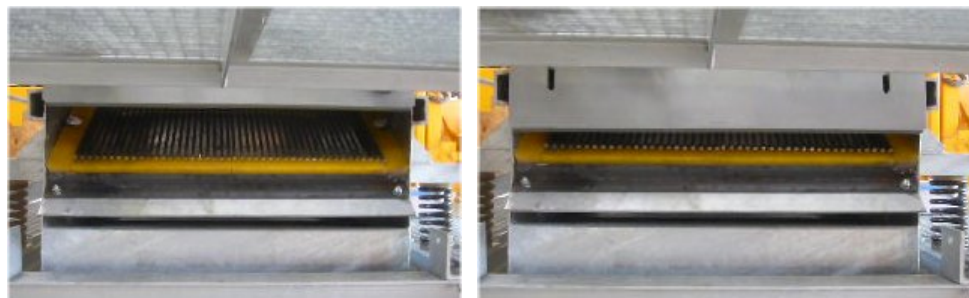
- Number of screens: 1 nos.
- Screen area: 1.25 m<sup>2</sup>

- **Connections**

- Feed line: DN 250

- **Screen Selection**

*The PU Strainer bars are available in various designs:  
Spacings and diameter of strainer bars are customized and designed  
subject to the application.*

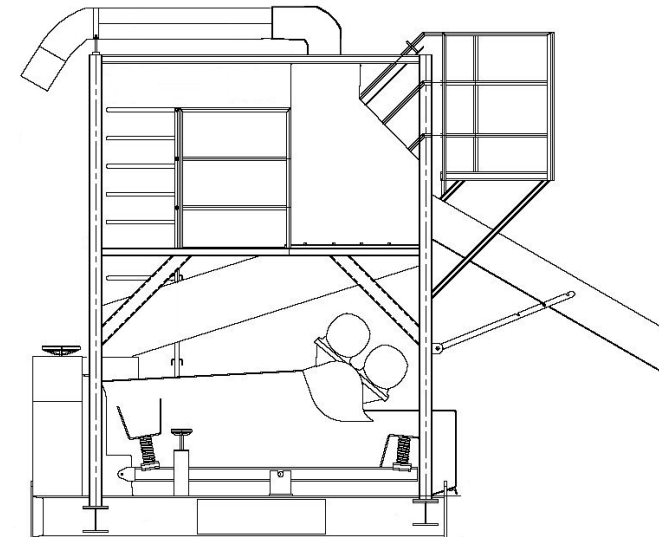


III. 3: Height adjustable weir at the solids outlet

- **Applications**

Pre-scalping in combination with a compatible ITE screening machine

- Drilling fluids (e.g. in Tunneling, Horizontal- and Vertical Drillings)
- Industrial Sludge (e.g. Coal Dust-and any kind of water material mixtures)
- Agriculture (e.g. dewatering of cow dung and bio waste)
- Sludge cleaning in sand and quarry industry



III. 4: Pre-screener mounted on ITE vibration shaker