

4-Panel Screening Machine – 3 x 15 Mud Conditioner

Description

The ITE 4-Panel Screening Machine **4PSM 3x15 MC** is designed to dewater heterogeneous solid-liquid mixtures.

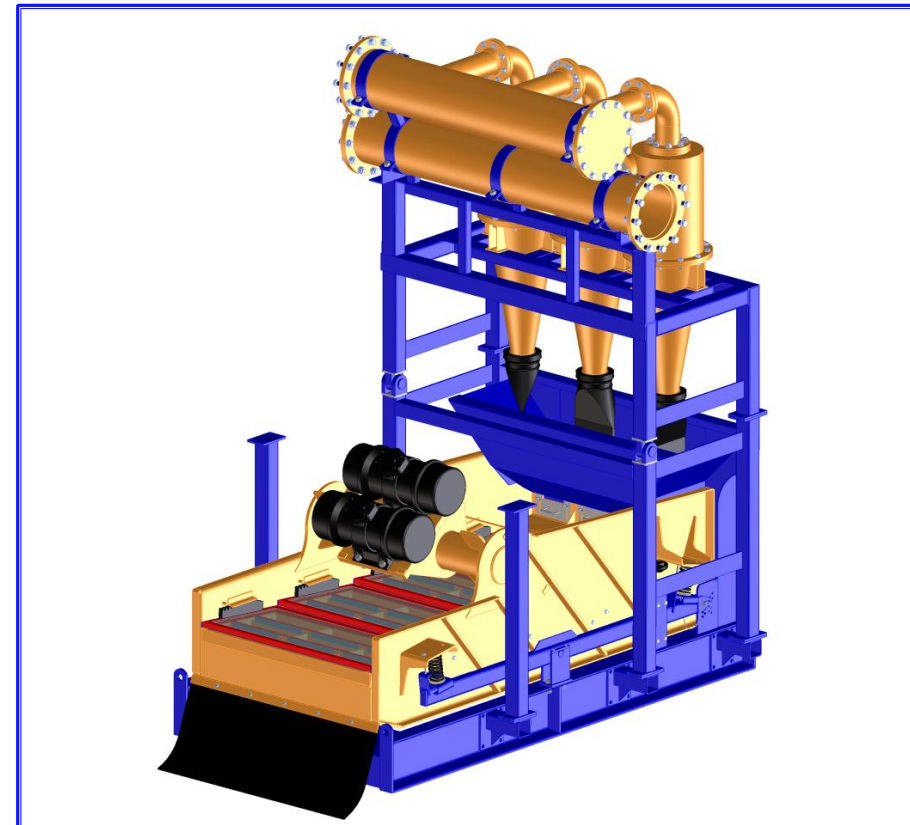
Therefore the screening machine is equipped with 3 hydro-vacuum-cyclones and 4 panel screens.

The 3 hydro-vacuum-cyclones separate fine particles (down to 45 µm) from the slurry. The purified liquid leaves the hydro-vacuum-cyclones via the cyclone overflow, the fine particles are removed at the cyclone underflow and fall on the screens.

With a G-force of up to 6.3 G the installed panel screens are set into motion, hereby dewatering the slurry and separating the solid particles from the liquid.

Characteristics

- Very efficient screening capabilities even down to the critical range of 100 to 45 µm
- Equipped with 3 x 15" hydro-vacuum-cyclone unit (fold-away) for separating fine particles from suspensions by means of centrifugal force down to 45 µm
- Equipped with 4 screen panels on one level. Screen panels are available in wire woven stainless steel and polyurethane subject to application.
- Changeable screen angle appliance for a flexible adjustment of the screen deck subject to the changing soil conditions.
- Due to the hammer wedge attachment the screens are easy to change in very short time.



III. 1: 4PSM 3x15 MC

Transport Dimensions

- Length: approx. 3500 mm
- Width: approx. 2200 mm
- Height: approx. 2700 mm
- Weight: approx. 3900 kg



Technical Specifications

- **Hydro-vacuum-cyclone - unit**
 - Number: 3 hydro-vacuum-cyclones
 - Dimensions: 15 inch (381 mm)
 - Cut-point (d_{50}): 45 μm
- **Screening machine 4PSM**
 - **Vibration Motors**
 - Number of motors: 2 nos.
 - Power: 2 x 2.2 kW = 4.4 kW
 - Voltage: 400 V / 50 Hz
 - **Panel Screens**
 - Number of screens: 4 nos.
 - Kind of motion: linear
 - Screen area: 3.2 m²
 - Angle adjustment: -3° to +7°
- **Screen Selection**
 - **Wire woven screens, stainless steel**
 - Panel Screen 070 Mesh / 210 μm / 0.21 mm
 - Panel Screen 115 Mesh / 130 μm / 0.13 mm
 - Panel Screen 145 Mesh / 100 μm / 0.1 mm
 - Panel Screen 180 Mesh / 80 μm / 0.08 mm
 - Panel Screen 215 Mesh / 70 μm / 0.07 mm
 - Panel Screen 255 Mesh / 60 μm / 0.06 mm
 - Panel Screen 325 Mesh / 45 μm / 0.045 mm
 - **Polyurethane**
 - Panel Screen Coarse PU 11 x 3.5 mm
 - Panel Screen Coarse PU 11 x 1.5 mm
 - Panel Screen Coarse PU 11 x 0.7 mm
 - Panel Screen Coarse PU 11 x 0.3 mm

Also customized solutions can be realized.

Applications

- Slurries in the construction sector (e.g. tunnelling, horizontal and vertical drillings)
- Industrial slurries (e.g. coke dust, tar oil)
- Slurry dewatering in sand and gravel processing

