

## Description

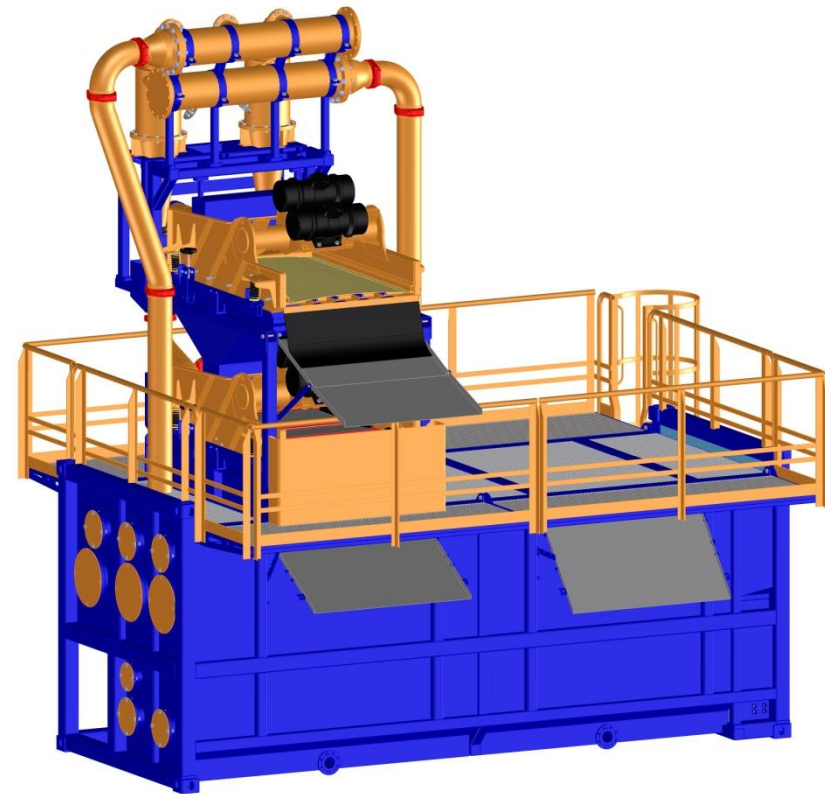
The ITE TSP250-2 is a compact separation plant and specially designed for processing of slurries and removal of drilled solids from the slurry circuit in tunneling, horizontal drilling or deep hole drilling applications.

The TSP250-2 is composed of one double deck vibration screening machine, two hydro-vacuum-cyclones, one 20' process tank with one integrated centrifugal feed pump, one control cabinet and accessories.

Adjustable discharge chutes, fold-away platform and pluggable railing for safe working and good access provide a plug-and-play solution. Assembly time is therefore reduced to a minimum. Feeding of the shaker and cyclones is accomplished by an integrated fixed piping and wiring system in a minimal footprint.

Instead of a collection of equipment from various sources, the ITE TSP250-2 is a field-proven network of separation components specifically designed to function as a single unit. During each separation stage, a maximum of solid particles are removed from the slurry. The modular system guarantees continuous and fast advance rates, reducing downtimes to a minimum. The innovative screening technology combined with hydrocyclones constitutes a complete recycling concept, providing optimal removal of critical fine particles down to 45 microns and guaranteeing constant slurry properties.

The vibration screening machine can be equipped with a wide range of different ITE hookstrip and panel screens which are available from 4mm mesh width down to 45µm.



## Transport dimensions

Plant component	Length x Width x Height [mm]	Weight [kg]
Tank (incl. pump)	6062 x 2438 x 2591	8000
Platform	6062 x 4542 x 1200	2000
Vibration shaker K2D	3020 x 1740 x 3805	4000
15"-Cyclone unit	3500 x 1600 x 2100	1500

## Technical Specification

**Capacity** (as per spec. below)\*<sup>1</sup>: max. 250 m<sup>3</sup>/h

**Power consumption** (total plant): 49 kW

- **Hydro-vacuum-cyclone - unit**
  - Number: 2 hydro-vacuum-cyclones
  - Dimensions: 15 inch (381 mm)
  - Cut-point ( $d_{50}$ ): 45  $\mu\text{m}$ <sup>\*1</sup>
- **Double deck vibration shaker (K2D)**
  - Top deck (Hookstrip screen):
    - Screen area: approx. 2.4 m<sup>2</sup>
    - Deck inclination adjustment: -3° to +6°
  - Lower deck (Panel screens):
    - Screen area: approx. 2.4 m<sup>2</sup>
    - Deck inclination adjustment: -3° to +7°
  - Screen area (total): approx. 4.8 m<sup>2</sup>
  - Power: 4 x 2.2 kW (8.8 kW total power consumption)
  - Voltage: 400 V / 50 Hz
- **Cyclone feed pump**
  - Wear resistant centrifugal pump, 6 x 5 x 14
  - Rotational speed: 1500 rpm
  - Power supply: 37 kW / 400 V / 50 Hz

\*<sup>1</sup> The capacity of the ITE TSP250-2 is subject to the viscosity and density of slurry, solids loading, grain size distribution, screen selection, and properties along with operating conditions, and might be actually lower than specified.

- **Tank (2 compartments)**
  - 1. Compartment: Underflow K2D
  - 2. Compartment: Overflow hydro-vacuum-cyclones
  - Tank capacity: approx. 24 m<sup>3</sup>

