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Microtunneling slurry Separation plant HSP250, Herrenknecht.

Slurry separation plant for mud recycling in microtunnelling or HDD.

The separation plant HSP250-2 is used to separate solid_liquid mixtures. It consists of a double-deck screening machine (K2D), a hydro cyclone unit (2 x 15-in hydro vacuum cyclones), a cyclone feed pump and the electric equipment. It is positioned on a slurry tank with platform assembly.

Due to the special design it is easy to be transported as well as easy to be mounted on top of a sedimentation tank. The system is supplied with the necessary platforms for safe operation.

The system is fully serviced and ready to be used immediately.

For Sale & For Rent





Figure 1: Separation plant HSP250-2 front

1 Platform assembly	2 Double-deck screening machine
3 Overflow lines	4 Outlet openings



Figure 2: Separation plant HSP250-2 rear

1 Cyclone unit (2x15 in)	2 Double-deck screening machine
3 Outlet opening	4 Cyclone feed pump

5. Technical data of the separation plant HSP250-2

5.1 Entire system

Length	6062 mm
Width	4542 mm
Height	6600 mm
Weight (empty)	approximately 15 t
Weight (filled with water)	approximately 50 t

5.2 Slurry tank

Length	6062 mm
Width	2438 mm
Height	2591 mm
Weight (empty; incl. platform assembly, pump, switch cabinet)	approximately 9.5 t
Capacity	approximately 24 m ³

5.3 Double-deck screening machine Kaskade 2 Deck (K2D)

5.3.1 Screening machine (without cyclone unit and chute)

Length	3800 mm
Width	2100 mm
Height	3200 mm
Weight	approximately 4 t

5.3.1.1 Upper deck

The upper deck of the K2D is equipped with two vibration motors. A hookstrip screen is installed on the upper deck.

Acceleration force	max. 4.9 g
Screening area	2.4 m ²
Angle adjustment	-3° ... +6°
Driving power	2 x 2.2 kW = 4.4 kW
Voltage	400 V
Frequency	50 Hz
Speed	1500 rpm

5.3.1.2 Lower deck

The lower deck of the K2D is equipped with two vibration motors. Three panel screens are installed on the lower deck.

Acceleration force	max. 4.9 g
Screening area (total)	2.4 m ²
Angle adjustment	-3° ... +7°
Driving power	2 x 2.2 kW = 4.4 kW
Voltage	400 V
Frequency	50 Hz
Speed	1500 rpm

5.3.2 Screens

5.3.2.1 HSP panel screen

Screen design: Stainless steel or polyurethane

Length	1253 mm
Width	635 mm
Height Stainless steel/polyurethane	25 mm/40 mm
Weight Stainless steel/polyurethane	approximately 15.4 kg/33 kg
Screening area	approximately 0.8 m ²

5.3.2.2 HSP hookstrip screens

Screen design: Stainless steel or polyurethane

Length	1945 mm
Width	1230 mm
Height Stainless steel/polyurethane	5 mm/21 mm
Weight Stainless steel/polyurethane	approximately 5 kg/ 60 kg
Screening area	approximately 2.4 m ²