

### SEI-FLEX-500 HDD Mobil Processing Unit



With our 40+ years of experience in Solids Control and Drilling Waste Management, Midgard is pleased to introduce to its product line the SEI-FLEX-500 Horizontal Directional Drilling Mobil Processing Unit. The HDD Mobil Processing Unit is designed to be utilized in the civil industry, and can be customized for your specific job requirements. If its HDD, Micro-tunneling, Large Diameter Tunneling, Water Well Drilling, Slurry Wall/Foundation Drilling, Hydrovac Mud Processing, and various other civil industries, the SEI-FLEX-500 will meet your fluid processing needs. The mobility and quick set up allows you efficiently and reliably process/recycle drilling fluids and refining waste on-site.

The SEI-FLEX-500 Mobil Processing Unit has a two chamber process tank, and has a capacity of 33 cubic meters (207 bbl). The SEI-FLEX-500 can clean or recycle up to 500 GPM of drilling fluids. Built on a heavy duty tri-axle air ride suspension, this unit is designed to move quickly.

This unit comes complete with a 4 Panel PrimaG Linear Motion Shale Shaker, VFD Controlled Decanter Centrifuge, Centrifugal Pumps (up to 3), Agitators, Mud guns, and Conveyor for Solids Extraction. Optional Equipment (as shown) 250 kw Generator, Fuel tank run times from 8 hours to 36 hours, Mud hopper for chemical additives.

#### FEATURES & BENEFITS

- Rapid moving and quick set up
- Built on a heavy duty, tri-axle air ride suspension
- Two chamber 33 cubic meter (207 bbl) capacity tank
- Portable and rugged
- Waste minimized
- Reduced transportation costs
- PrimaG 4 Panel Linear Motion shaker with a range of 6 to 8+ g's of vibrational force
- PrimaG 4 Panel offers a large screening area of 30 ft<sup>2</sup> (2.79m<sup>2</sup>)
- VFD controlled centrifuge
- Fibergrate floor for enhanced traction
- LED Flood Lights for enhanced night visibility
- Tank valve controls below grating to eliminate trip hazards.
- Crimp wall design for added strength
- Turn-key system

## SOLIDS CONTROL

### PROCESS EQUIPMENT

#### Linear Motion Shaker

The 4 Panel PrimaG Linear Motion Shale Shaker which produces a range of 6 – 8+ g's of vibrational force. The PrimaG 4P Linear Motion shale Shaker has been designed with an impressive 30 ft<sup>2</sup> of screening area while maintaining a small equipment footprint.



#### Centrifuge

The VFD controlled centrifuge offers a max bowl speed of 3,150 rpm generating 2,540 g-s of force providing improved solids removal and reducing drilling fluids cost. With the variable frequency drive the bowl and conveyor speed is infinitely adjustable up to 3,150 rpm.



#### Control Panel

Class 1, Div 1 pressurized control panel with PLC controlled VFD bowl, back, and feed pump drives. A graphic HMI to control and display centrifuge status, bowl rpm, conveyor differential RPM, conveyor and bowl torque loading, feed rate and alarm status.

### SPECIFICATIONS

General	
Model	SEI-FLEX-500
Total Tank Capacity	207 bbl (33cu.m)
Shaker Tank	97.5 bbl (15.5cu.m)
Centrifuge Tank	109.5 bbl (17.5cu.m)
Max Inlet Flow	500 GPM (1.9cu.m/m)
Max Solids Handling	10 TPH
Shaker	
Number of Screens	4
Screen Area per Panel	5.56 ft <sup>2</sup> (0.5165 m <sup>2</sup> )
Screen Panel Area	7.71 ft <sup>2</sup> (0.7163 m <sup>2</sup> )
Non-Blanked Screen Area	22.24 ft <sup>2</sup> (2.066 m <sup>2</sup> )
Screen Angle	0 to +6 degree
Power	5 hp / 2 x 2.5 hp (3.73 kW / 2 x 1.86 kW)
Centrifuge (VFD)	
Max Bowl Speed	3,150 RPM
G-Force	2,540 G's
Main Drive	125 hp
Back Drive	25 hp
Centrifugal pumps (up to 3 each)	
Pump Frame Size	5 x 4 x 14
Pump Motor	50 hp
Dimensions (Transport)	
Length	53' (16.2m)
Width	8'-6" (2.6m)
Height	13'-6" (4.1m)
Weight (Transport)	
Net	75,000 lbs (34,090 kg)
Utility Requirements	
Generator (optional)	250 kw Genset (run time 8 to 36 hours depending on fuel tank selected)
Voltage	380 / 460 V
Frequency	50 / 60 Hz
Phase	3 Phase