



1500S SERIES MAST

Features and Specifications

- Feed Cylinder Stroke : 1.8m/6ft (3.3m option available soon)
- Choice of “H” or “P” size rotation and rod clamp
- Rod Guard with Interlock



Feed Frame 1500 w/ 4.00”(10.16cm) Bore Feed Cylinder(Surf)

	Metric	U.S.
Feed Stroke	1.8m	72in
Max.Pull Force	28,500Kg@34,474kPa	62,831lb@5000psi
Max.Push Force	23,044Kg@34,474kPa	45,100 lb@5000psi

Drill Depth Guidelines

Drill Rod/ Core Barrel	Hole Depth		Hole Depths	
	Metric (m)		U.S. (ft)	
	Up	Down	Up	Down
BWL	n/a	>3000	n/a	>9800
BWL (TK)	n/a	>3000	n/a	>9800
NWL	n/a	2500	n/a	8000
HWL	n/a	1500	n/a	5000
PWL	n/a	1000	n/a	3200



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SURFACE POWER PACK

Dimension and Weight

- Size: 46" W x 46" H x 104" L / 116 cm W x 116 cm H x 264 cm L
- Weight: < 1750 lbs / 749 Kg wet
- Engine: 1670 lbs / 758 kgs wet

Options

- Extra cooling for extreme temperatures
- Data Logging

System Features

- Pump Drive: Twin Disc Hydraulic Pumps:
 - 2 x HAWE 130cc Load Sensed rated (1set @ 5000 psi / 345 bar, 1 set @ 3000 psi / 207 bar)
 - Note: Drilling Function Operates at 4750 psi/ 310 bar (factory set) and can be increased to > 5000 psi/ 345 bar
- HAWE 24 Volt Proportional Valve System (PLC Operated)
- Triple Filtration System:
 - 3 x Pressure Filter, 1x Return with clog detection sensors
 - 3 Magnetic Filtration system on the drain case lines
 - Total of 7 filters
- Hydraulic Tank Capacity: 90 liters/ 24 US gallons with oil
- Heat Exchanger: 24V DC Air Cooled
- Temperature Switch for ensuring optimal oil viscosity
- Electric Panel: CSA certified
 - 24 Volts Power Supply Panel
 - 2x Remote E-Stop Station (plus one on panel door) with Magnetic Housing
- Interlock Ready (Different settings available)
- Air Cooled DC Heat Exchanger: with Variable Speed Brushless Motors (to help reduce water consumption top of a minimum) with Temperature Switch for ensuring constant optimal oil temperatures





CONTROL PANEL

Features and Specifications

- Synchro / Manual Option (std)
- Rotation Speed Joystick with Speed Adjust Trigger Switch for manual Chuck option (c/w Gimbal Mount)
- Feed Cylinder Joystick with Trigger Switch for manual Rod Clamp option (c/w Gimbal Mount)
- Wireline Joystick
- Winch Joystick



Driller's Settings

- Driller's Settings
- Dimmer Adjust for Screen Display
- Amp Meter
- Error Display
- Manual/Synchro Option
- Auxiliary On/Off
- Drilling Mode
 - Rotation Speed Control Adjust
 - Torque Control
- Trip In/Out
 - Thread Making/ Breaking
- Feed Cylinder Adjust
 - Thread Making/ Breaking
 - Torque Adjust

Owner's Locked Settings

- Interlock On/Off
- Helper's "Override" On/Off
- Fast Feed: Max Feed Cylinder Flow and Pressure
- Drilling Mode
 - Feed Pressure
 - Rotation Motor
- Displacement and Pressure Maximums
 - Feed Cylinder Flow and Pressure Maximums
- Trip In/Out
 - Thread Making/ Breaking Feed Cylinder Speed Maximums
 - Thread Making/ Breaking Rotation Speed Maximums
 - Thread Making and breaking torque maximums
 - Synchro Delay

Data Logging/Telematic Communication

- Feed Rate
 - Feed pressure
 - Bit weight
- Rotation Speed
 - Torque
- Water Flow
 - Pressure
- Dip
- Wireline Depth
- Winch depth/Location
- Trip In-Out. 10' - 20' - 30'
- Water Supply
 - Temperature
 - Flow



1000S SERIES MAST

Features and Specifications

- Feed Cylinder Stroke : 1.8m/6ft (1.0m option)
- Choice of “N” or “H” size rotation and rod clamp
- Rod Guard with Interlock



Feed Frame 1000 w/ 3.25”(8.26cm) Bore Feed Cylinder (Surf)

	Metric	U.S.
Feed Stroke	1.8m	72in
Max.Pull Force	18,814Kg@34,474kPa	41,479lb@5000psi
Max.Push Force	13,359Kg@34,474kPa	29,452lb@5000psi

Drill Depth Guidelines

Drill Rod/ Core Barrel	Hole Depth		Hole Depths	
	Metric (m)		U.S. (ft)	
	Up	Down	Up	Down
BWL	n/a	2500	n/a	8000
BWL (TK)	n/a	3300	n/a	10,500
NWL	n/a	1800	n/a	5900
HWL	n/a	1100	n/a	3600
PWL	n/a	750	n/a	2400