



1500U SERIES MAST

Features and Specifications

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



Feed Frame 1500 w/ Double Acting Feed Cylinder (U/G)

	Metric	U.S.
Feed Stroke	1.8m	72in
Max.Push Force	17,005Kg@34,474kPa	37,491lb@5000psi
Max.Pull Force	17,005Kg@34,474kPa	37,490lb@5000psi

Drill Depth Guidelines

Drill Rod/ Core Barrel	Hole Depth		Hole Depths	
	Metric (m)		U.S. (ft)	
	Up	Down	Up	Down
BWL	1000	>3000	3200	>9800
BWL (TK)	1000	>3000	3200	>99800
NWL	700	1800	2200	5900
HWL	350	1100	1100	3300
PWL	200	650	650	3500



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— UNDERGROUND 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 / 794 Kg wet including motor group

Options

- Extra cooling for extreme temperatures
- Data Logging

System Features

- Electric Motor: 100-200 hp / 75-150 kW 50-60Hz / 380-575 V premium Efficiency
- Electric Panel: CSA certified
 - 24 Volts Power Supply Panel
 - 2x Remote E-Stop Station (plus one on panel door) with Magnetic Housing
- 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 Gimball 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



1000U SERIES MAST

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- Choice of “N” or “H” size rotation and rod clamp
- Rod Guard with Interlock



Feed Frame 1000 w/ Double Acting Feed Cylinder (U/G)

	Metric	U.S.
Feed Stroke	1.8m	72in
Max.Push Force	10,715Kg@34,474kPa	23,623lb@4500psi
Max.Pull Force	10,715Kg@34,474kPa	23,623lb@5000psi

Drill Depth Guidelines

Drill Rod/ Core Barrel	Hole Depth		Hole Depths	
	Metric (m)		U.S. (ft)	
	Up	Down	Up	Down
BWL	760	1500	2500	5000
BWL (TK)	900	2000	3000	6500
NWL	460	1000	1500	3300
HWL	230	600	750	2000
PWL	150	40	500	1300