



Mobile Drill Intl

YOUR DRILL RIG SALES AND SERVICE EXPERTS SINCE 1947

Mobile Sonic 1500

Safer
Cleaner
Faster



Environmental • Geothermal • Geoconstruction • Geotechnical • Mining • Seismic • Foundation

Sonic Drilling Benefits

- Designed to drill deeper, faster and bigger boreholes
- Sonic head allows rotation and vibration simultaneously
- 2-4 times faster than conventional drilling
- Waste minimization: Up to 70% less than conventional drilling
- Minimal ground disturbance (4.0 psi)
- Reduces time on-site
- High return on investment
- Optional single rod handling system, to insure driller safety
- Superior Sample Quality





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Sonic Vibration	Oscillator Output Force	22,000 lbs (9980 kg-f)
	Frequency	0-150 Hz
Rotary Function	Sonic Rotary Motor Torque	1,475 ft-lbs (2,000 Nm)
	Max Speed	205 rpm
Mast Feed/ Head Travel	Max Retract	17,000 lbs (8.5 tons / 75 kN)
	Max Pull-Down	12,000 lbs (6 tons / 53 kN)
	Head Travel Speed	2 feet/sec (60 cm/sec)
Power and Hydraulic System	System Pressure	3,800 psi (250 bar)
	Hydraulic Flow	80 gpm (303 lpm)
	Hydraulic Power Requirements	224 hp (167 kw)
	Diesel Engine	Caterpillar 3406 - 6.6 L
	Engine Power	Caterpillar 3406 ~225 hp (168 kw)
	Cooling System	512 btu/hr (150 w)
	Fuel Capacity (2-tanks)	78 gal (296 l)
Dimensions and Weight	Track Speed	6.8 mph (10.9 kph)
	Weight	35,500 lbs (16,102.5 kg)
	Width	104" (264.1 cm)
	Length (mast Down)	24' (7.32 m)
	Height (mast Down)	12' (3.7 m)
	Height (mast Upright)	25' 4" (7.72 m)
	Mast Stroke	12' (4.3 m)
	Track Carrier	Marooka 1500
	Track Ground Pressure	4.0 psi (27.6 kpa)
	Track Width	27" (68.6 cm)
	Track Length	12' 7" (3.86 m)
Options	Ground Clearance	28" (71 cm)
	Winch	Hydraulic 4,500 lbs (2040 kg)
	Water Tank	100 gal (378.5 l)
	High Flow Water Pump	30-50 gpm (114 - 190 lpm) at 600 psi (40 bar)
	Compressor	100 cfm @ 120 psi (827 kpa)
	Progressive Cavity Pump	20 gpm @ 200 psi (52 lpm at 15 bar)
	High Pressure Water pump	4 gpm @t 4,000 psi (15 lpm at 272 bar)
	Rod Handling	Rod manipulator for 3.0"-4.25" OD, 250 ft
	SPT Hammer	Standard Penetration Test, Automatic Hammer
Accessories	Mast Dump	Extend Mast for Angle Borings up to 84" (213 cm)
	Double break out clamp	
	Controls - pilot operated	
	Jack/Stabilizers (3-4)	
	Emergency shut off (3)	
	Working lights (2)	
	Tool Boxes	
Towing Package		