



**MS-75 TRACK MOUNTED
SONIC DRILL**
GEOTECHNICAL – AUGER & SONIC

MULTIPOWER



FEATURES

Compact & Low impact - Small Footprint & Rubber Track Undercarriage

Powerful - 160 HP Cummins Power Unit

Safe - Rod handler & Guarding

Fast & Efficient - Sonic Drilling Technology Provides a Fast, Accurate Sample



Multi-Sonic MS-75 Track Mounted Sonic Drill Geotechnical - Auger & Sonic

DEPTH CAPACITIES*:	
4.75" (121 mm)	255 ft / 78 m
6" (152 mm)	200 ft / 61 m
7" (178 mm)	170 ft / 52 m
8" (203 mm)	150 ft / 45 m
	*Depending on ground conditions
PRIME MOVER	
Model:	Cummins QSB4.5, 4 cylinder, turbo charged diesel engine
Power:	160 HP @ 2200 RPM
ROTATION UNIT / OSCILLATOR	
Model:	MiniSonic
Frequency range:	0-75 Hz
Output force @ 75 Hz:	41,000 lbs.
Max torque:	1700 ft-lbs.
Rotation speed:	0-80 RPM
TRACK PACKAGE	
Model:	Morooka MST-800 rubber tracked undercarriage
Design:	Hyd. driven piston motors, spring brake, Brevini final drive
Speed:	3 km/h
Max grade:	86% / 39 degree
Control:	Radio remote w/ manual control on rig
BREAK-OUT CLAMP	
Style:	Two hydraulic clamp "double break-out" system
Max opening:	12"
Clamping force:	30,000 lbs.
Breaking torque:	25,000 ft-lbs.
MAST AND FEED	
Design::	Chain over cylinder feed
Pullback:	15,000 lbs.
Pulldown:	10,600 lbs.
Feed stroke:	14 ft.
Working angle:	45 to 90 degree
Rod pull:	10 ft / 3 m lengths
Tilting head:	30 degree side tilt
Mast dump:	48" travel
ROD HANDLER	
Style:	Front mounted, two clamp system
Max clamping diameter:	12"
Rod length:	10 ft / 3 m

HYDRAULIC SYSTEM	
Design:	Fully hydraulic, no electronics, open and closed loop
System pressure:	4500 PSI
Filtration:	10 micron
Heat exchanger:	Air:oil
COOLING	
Ambient temperature rating:	50 Deg C (122 Deg F)
Coolers:	Hydraulic driven fan
CONTROL PANEL	
Engine control:	Complete engine control - ignition, throttle, tach, safety shut-downs
Drill control:	Control handles for all drilling functions
Water control:	Water "tree" w/ gauge and shut-offs
E-stops:	(2) E-stop included
Drive control:	Control valves for manual LH & RH track control
WINCH	
Design:	TH1 planetary style w/ fail safe brake
Pull:	2200 lbs.
Capacity:	100 ft x 1/4" cable
WATER PUMP	
Model:	W1122BCD (435) Piston pump
Max flow:	37 GPM
Max pressure:	1000 PSI
DRILL DECK	
Stabilizers:	(4) Hydraulic stabilizers
Fuel tank capacity:	50 gallon
Storage:	Multiple tool boxes
AUTO HAMMER (OPTIONAL)	
Hammer weight:	140 lbs.
Complete assy. Weight:	323 lbs.
Hammer travel distance:	30"
Percussion rate:	0-50 blows per minute
Mounting arm:	Hydraulic swing in / out
GROUT PUMP (OPTIONAL)	
Model:	Continental 3CL4 progressive cavity pump
Max flow:	14 GPM
Max pressure:	225 PSI
WEIGHT	
27,000 LBS.	



Diamond Core



Seismic



Air Rotary



**Specialty &
Multi-Purpose**

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