



GEOMACHINE MODEL GM100

The GM100 is a fully hydraulic, rugged and mobile multi-purpose drill rig for Environment and Geotechnical site investigation, Exploration Drilling, Rock Drilling with Air or Core Drilling. The crawler can be simultaneously equipped for several methods:

- Percussive drilling with top hammer
- Diamond core drilling with BQ, NQ
- Drilling with casing tubes as well as Symmetrix using air
- SPT/Dynamic probing and CPT: Cone Penetration Testing
- Sampling with ie: morain, auger-samplers, piston-samplers

The GM100 is designed for rough field conditions. Its movements are nimble even in very soft terrain and tight situations due to well balanced length/width of tracks.

MODEL GM100 SPECIFICATIONS

Weight	10-12K lbs	3800 - 4700 kg
Length	14.75ft	4500mm
Width	5.9ft	1900mm
Height (rig in transport position)	5.57ft	1900mm

CRAWLER

Traveling speed Max 6km/hr

- Hydraulically driven crawler with two driving motors, 4 wheels, steering cog wheel in front, double bogies and brakes on both sides
- Hydraulically tightened fabric-reinforced tracks

Diesel engine 108Hp 90 kW

ROTATION UNIT

Effective Stroke	Drilling	Coring	Geotechnical
Torque lb/ft/RPM	2500/25	200/2000	2500/25
Rotation Speed RPM	0-120	0-3000	0-120

Hammer: Furukawa F3

STANDARD EQUIPMENT

- Hydraulic rod clamps
- Remote control for drive and winch
- Top driven diamond coring unit
- Impact unit for SPT (dynamic probing with adjustable falling height)
- Rock air drilling
- 375 CFM compressor

AUTO DROP HAMMER SPECIFICATIONS

- 140 lbs weight, standard 30" stroke
- All moving parts, including the 140lb (64 kg) weight are fully enclosed in a protective steel cabinet
- No cables or ropes needed for operation



TOOLING OPTIONS:

- Split Spoon Sampl System
- DT325 Soil Sampling System
- DT22 Soil Sampling System
- MC5 Soil Sampling System
- SP16 & SP22 Ground Water Sampling Systems
- 5" Solid Stem Augering System
- Basal Till Sampling System

