

THE GROUND
BREAKER

GM100

PURPOSE OF USE

Weight sounding test:	●
Vibration drilling:	●
Seismic drilling:	●
Sampling:	●
Cone penetration tests (CPT and CPT-u):	●
Field vane test (FVT):	●
Dynamic probing (DP):	●
Standard penetration test (SPT):	●
Static dynamic penetration test:	●
Installation of groundwater pipes:	Demanding soils
Percussion drilling:	Deep and demanding applications
Casing:	●
Core sampling in rock:	●
DTH drilling:	●

BOOM

Boom type:	Hard Duty Direct Cylinder (HD) Hard Duty Chain Cylinder (HC) Medium Duty Dual Mast (MDM)
Rotation unit:	V-500 / V-700 / Diamond Coring / Top Drive
Feed up to:	3500 mm
Feed cylinder lift capacity up to:	20 ton
Feed cylinder push down force up to:	10 ton
Movement speed up to:	Down: 0,3 m / s Up: 0,4 m / s
Rotator torque up to:	6200 Nm
RPM up to:	90

DIMENSIONS

Weight (based on options):	c. 8 ton
Length:	580 cm
Width:	210 cm
Height:	250 cm
Ground clearance:	480 mm

CARRIAGE AND POWER PACK

Engine type:	Cummins
Engine power:	119 kW
Hydraulic pumps:	2 / 3 pcs
Driving motors:	2 pcs
Wheels:	8 pcs (2 track pairs)
Track width up to:	400 mm
Fuel tank:	200 litres
Hydraulic tank:	280 litres
Travelling speed:	6 km / h

STANDARD EQUIPMENT

Control system:	Danfoss / IQAN
Compressor:	5,0 m3 / 7 Bar
Waterpump:	90 Bar / 60-142 L / min
Winch:	Electric / Hydraulic
Motor heater:	Electric 220V / Eberspächer
Additional radio for mast movements:	For Danfoss control
Hydraulic rod magazine:	●
Additional led lights:	●
Spray rinse system:	●
Mast automatic erection:	With IQAN
Mast anchoring without threaded rods:	●
Bulldozer blade:	●
Flow meter for drilling:	●

ATTACHMENTS

Hybrid:	●
Datalogging equipment:	GM Tracker / Rufco / Envi / Geotec
SPT unit:	●
CPTu equipment:	Geomill / Envi
Field vane testing equipment:	●
Hydraulic grinder:	●



Inspired by the Ice Age

Geomachine is designed for the most challenging conditions in the world. Since it can even drill into soil shaped by the Ice Age, we dare to promise it will work anywhere.