

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:	<b>Demanding soils</b>
Percussion drilling:	<b>Deep and demanding applications</b>
Casing:	●
Core sampling in rock:	●
DTH drilling:	●

## BOOM

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

## DIMENSIONS

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

## CARRIAGE AND POWER PACK

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

## STANDARD EQUIPMENT

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

## ATTACHMENTS

Hybrid:	●
Datalogging equipment:	<b>GM Tracker / Rufco / Envi / Geotec</b>
SPT unit:	●
CPTu equipment:	<b>Geomill / Envi</b>
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.