

THE GROUND
BREAKER

GM8



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.

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:	Demanding applications
Casing:	●
Core sampling in rock:	●
DTH drilling:	●

BOOM

Boom type:	Direct Cylinder (MD/HD) Chain Cylinder (MC/HC) Dual-mast (MD)
Rotation unit:	V-300 / V-500 / V-700 / Diamond Coring / Top Drive
Feed up to:	3500 mm
Feed cylinder lift capacity up to:	11 ton
Feed cylinder push down force up to:	10 ton
Movement speed up to:	Down: 0,4 m / s Up: 0,3 m / s
Rotator torque up to:	6200 Nm
RPM up to:	90

DIMENSIONS

Weight (based on options):	c. 10 ton
Length:	685 cm
Width:	215 cm
Height:	230 cm
Ground clearance:	700 mm

CARRIAGE AND POWER PACK

Engine type:	Cummins
Engine power:	140 kW
Hydraulic pumps:	3 pcs
Driving motors:	8 pcs
Wheels:	8 rubber wheels
Track width up to:	500 mm
Fuel tank:	340 litres
Hydraulic tank:	340 litres
Travelling speed:	5 km / h

STANDARD EQUIPMENT

Control system:	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:	●
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:	●
Chain to one wheel:	●
Tracks on two wheels:	●