

An expert in all machinery for rock, soil, and groundwater testing operations





Durable rock and soil testing machines for demanding conditions

Geomachine is an original equipment manufacturer of rock and soil testing machines and equipment, established in 1984. We design, produce, sell, and service machines and equipment designed for demanding geotechnical and geological testing and drilling operations. Our customers include experts in the fields of infrastructure construction, the mining industry, and environmental research from all over the world.

Our comprehensive maintenance, spare parts, repair, and training services ensure that the customer can have full confidence in the reliable operation of our machines and equipment. On a continuous basis, our R&D unit develops new drilling machines and associated peripherals and services. Our goal is to supply complete geotechnical equipment systems and a full range of services for rock and soil testing, construction, and groundwater monitoring operations.

Drilling rigs and equipment for demanding conditions





Our robust GM drilling rigs are suitable for all geotechnical and geological testing

Geomachine provides an extensive selection of powerful and rugged drilling rigs for rock, soil, and groundwater testing. We will equip the machines to meet customer-specific requirements. Drilling masts and tables, auxiliary equipment, platforms, and other accessories will be chosen on the basis of the deployment method, the required load capacity, and the conditions of use.



GM drilling rigs

Geomachine drilling rigs are suitable for both geotechnical and geological testing and drilling, including soil testing, rock drilling, sampling, and installing of groundwater monitoring pipes.



GM8

Designed for demanding testing, the agile GM8, mounted on rubber wheels, moves rapidly over boulder-strewn terrain yet will not leave any traces in an urban environment.

GM200

The high-powered GM200 is ideal for heavy-duty testing and drilling and for drilling large groundwater pipes.

GM100

The versatile GM100 is designed to meet the needs of demanding geotechnical and geological testing operations.

GM75

The GM75 is a multipurpose drilling rig for all medium-duty tasks from testing to installing groundwater pipes.

GM65

The twin-gear GM65 is suitable for any medium-duty task and can be transported on a trailer.

GM50C

The gear for overburden drilling of the convenient and versatile GM50 allows start hole drilling.

GM50

The GM50 is a compact drilling rig for basic geotechnical tasks that is highly manoeuvrable when negotiating rugged terrain.

Drilling equipment

Our array of drilling equipment includes:

- Standard penetration test (SPT) and Swedish sounding equipment
- Top hammer drilling equipment with associated casings and crowns
- Diamond coring equipment according to the customer's requirements
- Cone penetration test (CPT) equipment

Data loggers

Drilling data logging systems and measurement devices are another element in our offering. We will install either Geomachine's own Geomonitor GM 1M data field logger for the machine or the Rufco DL2 field logger, widely used in the extraction industry.

Electric vane drill

A standalone electric vane drill in Geomachine's own product line, the GM 4W does its part to eliminate deviations and other problems in the field. The guiding display makes drilling easy and straightforward.

Inclinometer

Designed for demanding conditions, the SLO90 inclinometer is suitable for both upward and downward boreholes.

Tracking device

The T22 tracking device determines the location of the drilling rig quickly and easily.

Our offerings also includes

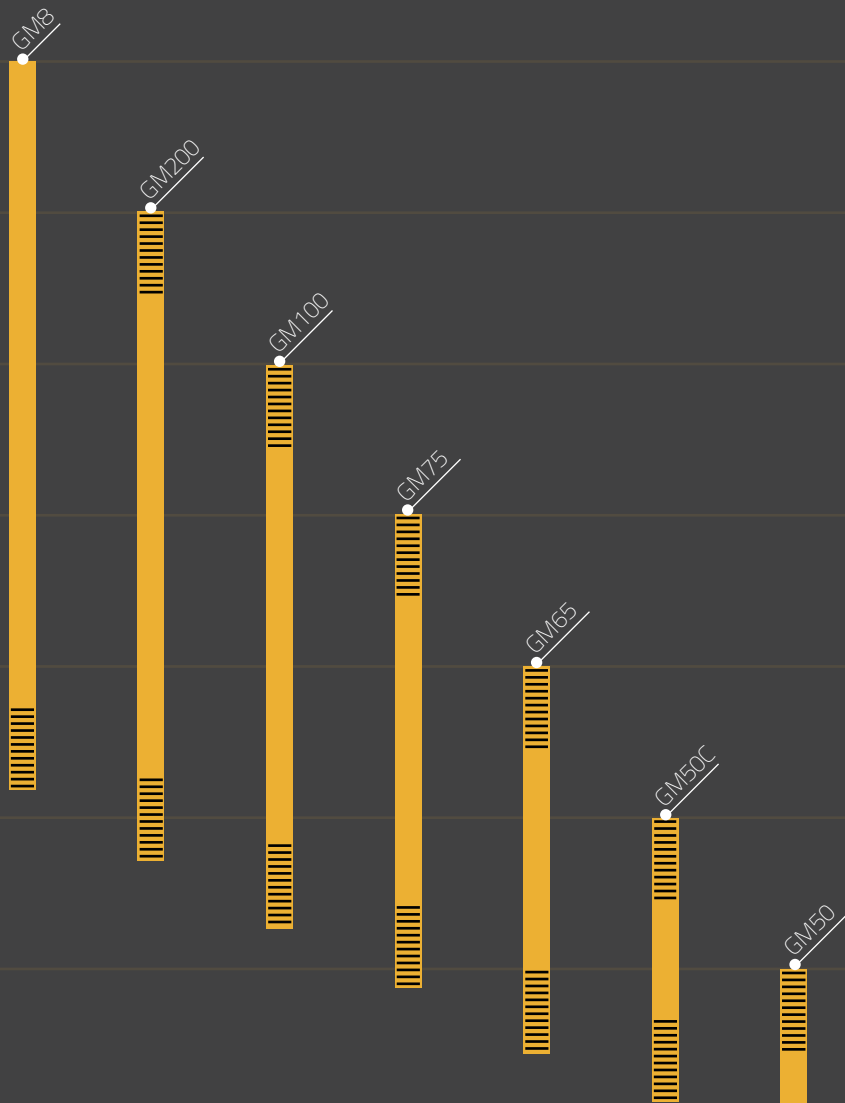
- CPT bits
- WL depth measurement
- Drill hole measuring system
- The casings, rods, etc. required.

Environment and groundwater measuring equipment

For environmental and groundwater investigations, we supply various samplers, groundwater pipes, and water level indicators. Our product range also comprises oil spill containment and clean-up products, such as absorption mats, absorption crystals, and 'first-aid kits'.

Suitable for:

- Heavy groundwater pipes
- Diamond coring
- Geotechnical drilling
- Down-the-hole (DTH) drilling
- Rock drilling
- CPT
- Vane drilling
- Standard penetration testing
- Light groundwater pipes
- Top hammer drilling
- Swedish weight sounding



Drilling depth	1 m - 400 m	Drilling table	with 1-2 gears
Core samples	Ø 22 - 56 mm	Weight	1.5 t - 8 t
Groundwater pipes	Ø 20 - 90 mm	Machine power	20 - 150 kW

Maintenance and servicing

Geomachine performs all repair, customisation and maintenance operations, however demanding they may be, at its own maintenance facilities, of over 1,000 m² in total, in Tuusula and Nurmijärvi. We also refit and modify old machinery.

Spare parts

Parts for all of our machinery are manufactured directly by Geomachine. More than 90% of the parts are in standing stock, facilitating delivery to the customer within 24 hours. The company guarantees the availability of its OEM spare parts for 10 years from delivery of the machine. Third-party components are supplied by reliable, established European manufacturers.

Annual maintenance

Under an annual maintenance contract, the preventive maintenance and repairs that the drilling rig may require are detailed. These are offered to the customer at a fixed price. The purpose of proactive annual maintenance is the continued optimal efficiency and reliable operation of the rig, with minimal downtime.

Field service

The company's on-call field technicians are available for service operations in the field, in Finland and the other Nordic countries. Our 4x4 all-terrain vehicle allows transporting even sizeable parts over difficult terrain.

Calibration

We will calibrate the rig's logging systems and peripherals both on delivery and in connection with repairs. We also offer reprogramming of the remote-control gear system installed.

Training

The supply always includes 1–2 days of user training at our facilities and/or in field conditions. The training is designed to provide primarily:

- information on the GM machine types and their operation and maintenance
- entry-level geology skills
- information on occupational safety, ergonomics, and protection of the environment

Leasing services

Geomachine leases out refurbished drilling rigs for the duration of failure-related downtime or repairs to damage, under a separate agreement and subject to availability. The leasing period runs from a couple of weeks to a couple of months.

Financing

Geomachine offers customer financing provided by its banking partners, based on either an instalment plan or a maintenance lease agreement. The term of the agreement is usually 48 to 72 months.





An expert in all machinery for rock, soil, and groundwater testing operations

Geomachine Oy

Hiekkakuopantie 4
P.O.BOX 131
FIN-04301 TUUSULA
Finland

Tel. +358 9 274 67121
office@geomachine.fi
www.geomachine.fi