

GEOTOOL

PROBING RIG **GTR MK3**

Fully hydraulic soil
testing probe on
caterpillar tracks

GTR MK3

GTR MK3 – A HIGH-PERFORMANCE MACHINE FROM OUR GTR SERIES

Compact and versatile geotechnical investigation rig featuring auger drilling and dynamic probing functions. High performance, quick mobilization, and single-operator control ensure efficient operation even in difficult-to-access locations. Accurate results, standards-compliant testing, and easy transport make it the ideal solution for a wide range of field applications.

The GTR MK3 combines a rotary head for auger drilling with a dynamic penetrometer, enabling a wide range of geotechnical site investigations to be carried out using a single machine.

Thanks to its rotary head with an internal hexagonal drive connection, the GTR MK3 can efficiently perform both auger drilling and dynamic probing under a wide variety of ground conditions. The modular hammer system can be adapted to specific project requirements and covers the energy classes DPL (10 kg / 50 cm), DPM (30 kg / 50 cm), DPH (50 kg / 50 cm), and DPSH-B (63.5 kg / 75 cm).

The machine design allows for rapid switching between dynamic probing and auger drilling modes without the need to install or remove any components. This ensures maximum efficiency in the field. The entire system is designed for single-operator use and is particularly well suited for urban environments and sites with limited access.

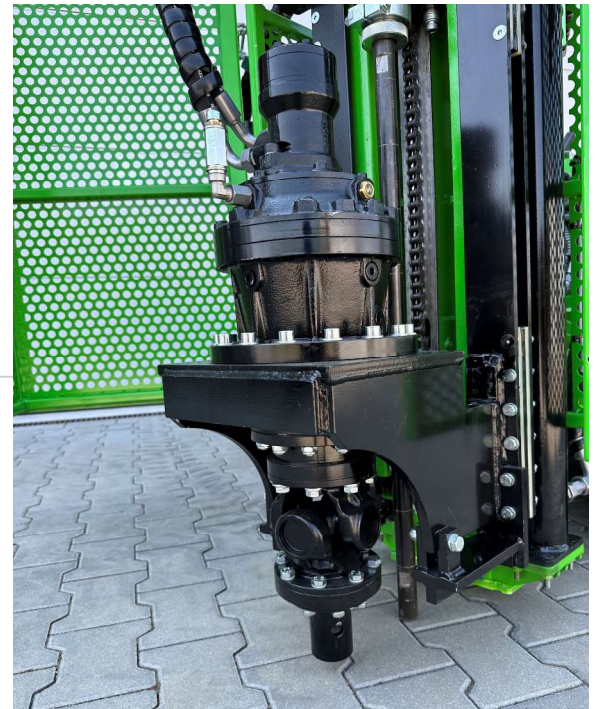
Thanks to its compact dimensions, the rig can be easily transported in a vehicle such as a Renault Trafic H2.

As an option, the machine can be equipped with a data acquisition system such as APADYN®. This system enables accurate recording of hammering parameters and penetration resistance values in accordance with applicable standards.

Dynamic probing tests are performed in accordance with NF EN ISO 22476-2, which specifies the test procedures for dynamic probing methods (DPL, DPM, DPH, and DPSH).

GTR MK3 ON CATERPILLAR TRACKS

The GTR MK3 sets new standards in its class. Engineered for demanding applications, it combines speed, safety, and ease of use. Its intuitive operation allows operators to work efficiently and confidently, ensuring rapid progress and maximum productivity in the field.



HIGHLIGHTS

- Compact, partially enclosed crawler-mounted rig
- Maximum pull force: 6 tonnes (13,200 lbs)
- Hydraulically adjustable and foldable mast (with forward, backward, and lateral positioning)
- Storage compartments and toolboxes for tools and accessories

TECHNICAL SPECIFICATIONS

OVERVIEW

Dimensions	Height transport	1,700 mm / 5.58 ft
	Height working position	3,400 mm / 11.15 ft
	Width transport	790 mm / 2.59 ft
	Length transport	3,100 mm / 10.17 ft
	Weight	1,600 kg / 3,530 lbs
Engine	Motor	Honda GX 630
	Power	15.5 kW at 3,600 rpm
	Torque	48 Nm / 35 ft-lbs
Dynamic Probing	DPL	10 kg / 22 lbs
	DPM	30 kg / 66 lbs
	DPH	50 kg / 110 lbs
	SPT	64 kg / 140 lbs
	Blow energy	467 Joule
	Blows/min.	15-30
	Drop height	50 cm / 75 cm 20 in / 30 in
Auger Drilling	Drill head	1,350 Nm / 995 ft-lbs at 55 rpm
	Diameter max.	150 mm / 5.91 in
	Pulldown Force	1.8 t / 3,968 lbs (unanchored)
	Retract Force	6 t / 13,200 lbs
Casing Puller	Extraction force max.	15 t / 33,000 lbs
	Passage	120 mm / 4.72 in
	Weight of unit	27 kg / 60 lbs



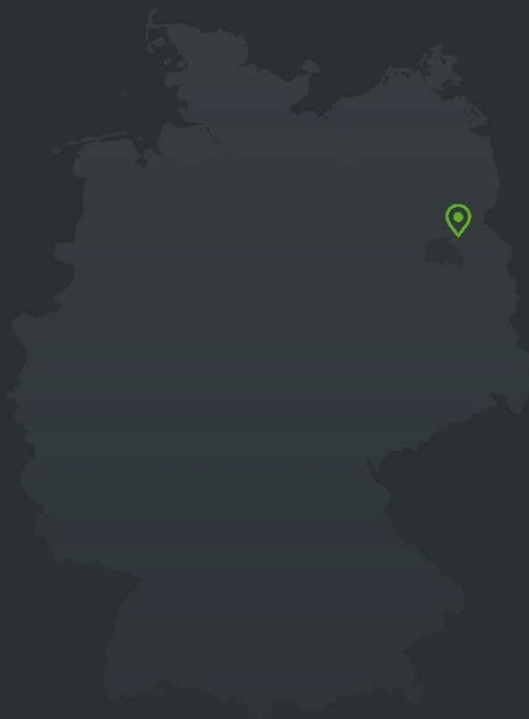
CONTACT

Do you have questions about our equipment or are you looking for a solution for your project? GEOTOOL stands for personal consultation, technical expertise and partnership support.

Feel free to call us – together we'll find the right solution.
We look forward to your inquiry.

OUR LOCATION IN GERMANY

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