

Hornet-100

Continuous drive hitch-up system for CPT or UXO testing

Geomil
equipment

World's first manufacturer
of CPT equipment



The Hornet-100 is the latest development in CPT and UXO testing equipment, utilizing Geomil Equipment's successful Continuous Drive System (CDS). The CDS is capable of continuous penetration or extraction, with speeds of up to 25 cm/s, for a substantial increase of productivity.

The Hornet can be configured as a highly automated and remotely controlled system which boosts efficiency and reduces manual handling and associated risk. The integrated and automatic leveling system is capable of correcting slopes of up to 10 degrees.

Coupled to the excavator, which also provides the hydraulic power, the Hornet weighs 3 tons making it easily transportable. If increased push capacity is needed, the system can be ballasted to a total weight of 8.5 tons.

The Hornet is deliverable in two main configurations:

- In *automatic mode* an aluminium tower supporting a tube string of up to 20 m is installed for a predefined maximum depth of operating. The process is then controlled remotely, enhancing productivity on sites with many tests, and removing the operator from harm's way when undertaking CPT or UXO projects.
- In *manual mode* a working platform is mounted to the top of the Hornet allowing a safe working space for operators with a tube rack and space for the data acquisition system and controls. Tubes are added until desired termination depth is reached. Maximum penetration depth is governed by reaction force and soil conditions and is not limited to 20 m.

For UXO projects two key features are the inclinometer which is incorporated in the sensor, and the option to predefine a targeted depth at which the Hornet automatically stops the penetration process.

Main characteristics of the Hornet:

- excavator mounted system
- measurements 1,700 x 2,100 x 2,000 mm (L x W x H)
- weight approx. 3 tons
- capable of pushing 36, 44 or 55 mm tubes
- continuous penetration and extraction for high productivity up to 25 cm/s
- accurate automated inclination and depth registration
- automatic leveling frame up to 10 degrees
- remote operation in automatic mode
- designed to fulfil the latest insights in workplace H&S

Optional supporting equipment:

- tower with trusses to support up to 20 m height
- working cabin for the operator
- elevation frame to prevent magnetic interference
- extra ballast packs up to 8.5 tons
- container for transport, storage and cleaning

Excavator recommendations:

- minimum weights of 25 tons
- power take off 320 bars for 190 l/min

For more information please view our website:

www.geomil.com/products/hornet. To request for a quotation email sales@geomil.com or call +31 172 427 800.



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