

Hornet-100

Specifications

General:

- Heavy duty base unit for CPT or UXO measuring systems with automatic leveling frame and depth encoder
- Mass ± 3 tons to be ballasted up to 8.5 tons
- Dimensions $\pm 1,7 \times 2,0 \times 2,0$ m (L x W x H), excluding the mast and hitch
- Frame designed for 20 tons push/pull force, finished with a decent coating and interface for a hitch
- Excavator recommended weight, minimum 25 tons

Drive:

- Continuous Drive System (CDS)
- Max. thrust force, standard variable between 0 - 100 kN
- CPT speed, variable between 0 - 50 mm/s
- Downward/upward speed, max. 250 mm/s
- Drive motors, two hydraulic units
- Drive chain, gripper pads $\varnothing 44$ mm on the 36-55 pads
- Capable of driving $\varnothing 36$ mm, $\varnothing 44$ mm and $\varnothing 55$ mm tubes

Powerpack and interfacing:

- Hydraulic powerpack from the excavator to be connected to the CDS
- Power take-off excavator, recommended 320 bars (leveling force) at 190 lpm (operating speed)

Leveling:

- Automatic 2-axis leveling system between the framework and CDS up to 10 degrees

Controls:

- Wireless machine control box, incl. additional 10m wired cable connection
- Separate depth encoder

Machine controls:

- Start / stop, operation mode, automatic / manual
- CDS direction, pushing / retracting
- Speed
- Open / close CDS clamp

Indicators:

- Start / stop, system pressure alarm, clamp pressure, CDS speed and rotation, depth, total force

Options:

- Aluminum mast: trusses standard 16m, minimum 10m, maximum 20m
- Operators cabin
- Ground elevation frame
- Hitch for excavator, the hitch to be bolted onto the steel framework
- CPT single items, UXO single items
- Container for transport, storage and cleaning