

# Hornet-100

## Specifications

**General:**

- Heavy duty base unit for CPT or UXO measuring systems with automatic leveling frame and depth encoder
- Mass  $\pm 3$  tons to be ballasted up to 8.5 tons
- Dimensions  $\pm 1700 \times 2000 \times 2000$ mm (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 10 m 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 16 m, minimum 10 m, maximum 20 m
- Working platform for operating manual mode (without a mast). Includes safety frame, tube rack and steps
- 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