



a.p. van den berg
The CPT factory

HYSON 100 kN-LW

lightweight static CPT thrust system



features

- stand alone
- easy to transport
- low budget
- single cylinder
- light weight

creating tools that move your business

HYSON 100 kN-LW: lightweight static CPT thrust system



minimum weight with maximum performance

The lightweight static CPT thrust system is specially designed to perform in situ geotechnical soil investigations in locations inaccessible to other equipment, such as basements, back yards, swampy and overgrown land.

The main criteria in designing this system were: low weight, ease of operation, versatility and reliability. This resulted in a single-cylinder, easy-to-move, easy-to-operate CPT unit.

anchoring

In order to counter the reaction forces while testing, four rugged soil anchors are provided. In this way a CPT test of 30 metres is feasible (actual depth depends on soil conditions). Anchors can be set manually or much more easily using the HYGAND, a hydraulic anchor setting device driven by the hydraulic power pack.

Specifications	
Weight CPT thrust system	85 kg
Weight hydraulic power pack	77 kg (oil included)
Dimensions CPT thrust system	620 x 590 x 1010 cm
Dimensions hydraulic power pack	600 x 420 x 625 cm
Ground anchors	4 pcs. with a length of 1100 mm
Inner diameter hollow piston rod	Ø 62 mm
Thrust system piston rod	700 mm
Pushing force	100 kN (11 US tons)
Pulling force	127 kN (14 US tons)
Speed	2 cm/s
Motor type hydraulic power pack	Honda GXV340, petrol
Power / RPM	8 kW / 3600 RPM

hydraulic power pack

The hydraulic power pack will be delivered as a stand alone unit and provided with 4 shock absorbers. A 35 litre hydraulic oil tank with a sight glass is the basis of a compact self contained unit including a hand started Honda GXV340 (1 cylinder) petrol engine. The unit contains all necessary instruments and quick couplings for the hydraulic hoses which connect the CPT thrust system. A heavy duty frame to protect the vulnerable parts of the hydraulic unit is also used to transport the unit.

included accessories

- anchor beam and cross beam
- soil anchors Ø 250, Ø 350 or Ø 450 mm (including spindle (M 30) and plates)
- wheel set for transporting the CPT thrust system
- measuring rule
- flexible hydraulic hoses with quick couplings
- casing with dirt wiper
- locking plate
- ball clamp
- pushing piece with proximity switch
- hydraulic measuring device LW

options

- data acquisition system, with laptop computer
- depth registration system
- HYGAND-250 hand operated soil anchor setting device
- transport cart for power-pack



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