



CPT Trailer

With HYSON 200 kN static cone penetrometer



CPT Trailer with HYSON 200 kN

The CPT Trailer versus the CPT Truck

The trailer-mounted HYSON 200 kN (20-ton) static cone penetrometer provides the same high penetration force as the HYSON CPT truck, Track-Truck, or crawler, but at significantly lower initial cost. The main difference between the trailer versus the truck is that the trucks carry their own ballast weight; whereas operations with the trailer (which is lighter in weight) require extra time to set soil anchors to provide the 200 kN reaction force. The trailer may be ideal for users doing CPT work occasionally, or for locations difficult to access with heavy units.

*"Van den Berg
in
every field"*

The HYSON Static Cone Penetrometer

The HYSON 200 kN penetrometer has twin hydraulic rams with fixed piston rods. Hydraulic supply by means of a power pack driven by a silent pack diesel engine. The penetrometer controls are mounted in a functional control desk, together with the engine controls. The penetrometer operates at the standard CPT speed of 2.0 cm/s. Faster speeds are available to save time while pushing and pulling CPT rods when measuring results are not needed.

The Trailer

The HYSON 200 kN is installed on a tandem axle trailer. The tandem axle trailer has a short wheel base making it easier to manoeuvre on difficult sites. The trailer is built to comply with all brake, lighting and safety regulations in the country of destination. The HYSON is positioned in the center of gravity of the trailer, so that the system's total weight is available as counterweight during pushing. All other components are designed and installed to create a durable, compact, solid, easy-to-use machine, with maximum space for accessories. A different layout and arrangement of equipment can be built at the customer's request.

Levelling and Anchoring the Trailer

The trailer is levelled on 3 hydraulic jacks. Four or eight special helical soil anchors are provided to obtain reaction force. Anchor diameters are available in 250, 350 and 450 mm. The anchors can have fixed or interchangeable blades. The standard anchor shaft length is 1 m, optional longer lengths are available. The anchors are set with a hand-operated anchor setting device, or an optional HYGAND hydraulic anchor setting unit powered from the trailer's diesel engine and hydraulic power pack. With the HYGAND, anchor setting is considerably faster and easier.

Accessories

- Clamps for holding, pushing and pulling Ø36 mm CPT rods and Ø56 mm casing pipes
- CPT rods Ø36 mm
- Casing pipes Ø56 mm
- TOUCH-SCREEN, GOLOG and I-Control data acquisition systems
- GONSITE logging and GO4! processing software.
- Electrical and mechanical cones for measuring geotechnical and environmental soil parameters
- MOSTAP soil samplers
- WASTAP water and gas sampler
- ROTAP rotary drilling equipment.
- VATAP vane tester
- OptoCone wireless cone
- Icone digital cone
- Conductivity cone
- Seismic cone

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| SPECIFICATIONS | | | |
|------------------|------------------------|--|------------------------|
| | Nominal | | Maximum |
| Pushing capacity | 200 kN (22 US tons) | | 250 kN (28 US tons) |
| Pulling capacity | 260 kN (28 US tons) | | 320 kN (36 US tons) |
| Pushing speed | 2.0 cm/s | | 9.8 cm/s |
| Pulling speed | 1.7 cm/s | | 5.2 cm/s |

We reserve the right to change specifications without prior notice.



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