



**a.p. van den berg**  
*The CPT factory*

# CPT system on trailer

with HYSON 200 kN static cone penetrometer



## features

- low budget
- light in weight
- 20 ton pushing force
- ideal for locations difficult to access with heavy units
- easy to transport

creating tools that move your business

# CPT Trailer: with HYSON 200 kN static cone penetrometer



## CPT Trailer versus large self-propelled machines

The 20 tons CPT Trailer provides the same high penetration force as the CPT truck, Track-Truck and CPT Crawler, but at significantly lower capital cost. The main difference between the trailer versus the large self-propelled machines is that those 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 required reaction force. The trailer is suitable for users who are doing CPT work occasionally, or for locations difficult to access with heavy units.

## HYSON static cone penetrometer

The well-proven twin cylinder HYSON 200 kN penetrometer is installed in the CPT Trailer. Hydraulic supply is provided 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 hydraulic upper clamp is an efficient addition to the functionality of the HYSON 200 kN.

### Technical specifications

|  |                           |
|--|---------------------------|
| Total weight                           | 2500 – 3500 kg            |
| No of axles                            | Twin                      |
| L x W x H                              | 3200 x 1855 x 2500 cm     |
| Levelling jacks                        | 3 pcs, hydraulic operated |
| Ground anchors                         | 4 or 8                    |
| Thrust system cylinder stroke          | 1250 mm                   |
| Pushing force                          | 200 kN                    |
| Pulling force                          | 260 kN                    |
| CPT Speed                              | 2 cm /sec                 |
| Catching clamp                         | Ball type                 |
| Hatz silent pack<br>2 cylinder, diesel | Type 2 L41C               |
| Power                                  | 14,6 kW / 1800 RPM        |

## trailer description

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 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 / options

- Hydraulic catching clamp, integrated in the HYSON 200 kN.
- Hydraulic push/pull clamp for 36mm and 56 mm rods.
- HYGAND, hydraulic anchoring gear.
- Weather protecting housing for data acquisition system.



## A.P. van den Berg Machinefabriek

IJzerweg 4, 8445 PK  
P.O. Box 68, 8440 AB  
Heerenveen, The Netherlands  
tel : +31 (0)513 63 13 55  
fax: +31 (0)513 63 12 12  
www.apvandenber.com  
info@apvandenber.com



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