



a.p. van den berg
The CPT factory

CPT SKID 200 kN

multipurpose: for each application a suitable solution



features

- easy to operate
- compact modular design
- for onshore and near shore applications
- basic, advanced or professional version

creating tools that move your business

CPT SKID 200 kN, multipurpose: for each application a suitable solution



introduction

The CPT SKID is a versatile, cost friendly and easy-to-transport package suitable for both onshore and near shore soil investigations. It can be mounted on a frame, vehicle or jack-up platform. The latter is often done for CPTs at water depths up to 30 m. This is possible as long as currents and the tide do not

prevent CPT operations. The CPT SKID consists of the high-performance, low maintenance and reliable HYSON 200 kN twin-cylinder penetrometer with a pushing force of 20 tons, a control unit and a power pack. Depending on the work for which the CPT SKID is to be deployed, a basic, advanced or professional version can be selected.

optimal basic performance at an attractive price

The Basic CPT SKID is equipped with a 1-cylinder diesel engine Power Pack that offers more than enough power for the HYSON 200 kN to do his work. The HYSON is controlled through a basic control console, consisting of only two levers for a slow and quick penetration and pulling speed. To make the investment more attractive, a pushing piece in combination with pulling and catching ball clamps are integrated. As the 1-cylinder diesel engine is smaller than the 2-cylinder version, a more compact configuration is possible. The result is a robust CPT system that delivers optimal performance at an attractive price.

demanding circumstances

When dealing with circumstances that demand more power or when more ease of operations is requested, we offer a better choice with the advanced or professional version. Each have a growing number of standard options included. Both have a 2-cylinder diesel engine to provide more power and more sophisticated clamping systems are integrated. For example a hydraulic push/pull clamp can be found in the professional version to ease CPT operations and to facilitate an easy switch between 36 mm CPT rods and 56 mm rods or casing. Of course the control panel will be expanded with the levers required to operate these clamps. In both versions the control panel will also contain manometers for displaying the applied pressures and total pushing force.

The table below can be used to select the CPT SKID that has the best fit with the requirements and the anticipated application.

digital Icone data acquisition system

Into the CPT SKID with the HYSON 200 kN A.P. van den Berg's digital Icone data acquisition system can be integrated. The Icone system consists of the Icontrol, Icones and the Ifield software for realtime data presentation. It enables measurement of cone resistance (q_c), local friction (f_s), pore water pressure (u) and inclination (ix/y). The Icone is easily extendable with click-on modules to measure other than the four standard parameters. The modules Conductivity, Magneto, Vane and Seismic are available.

	Basic	Advanced	Professional
			
	Weight: 470 kg	Weight: 550 kg	Weight: 625 kg
Pusher HYSON 200 kN	L x W x H: 103 x 40 x 196 cm Cylinder stroke: 1,250 mm Pushing force: 200 kN Pulling force: 260 kN Speed: 1.6 – 10 cm/sec		
Power Pack	1-cylinder diesel engine Weight: 580 kg L x W x H: 125 x 80 x 135 cm Power: 9.6 kW	2-cylinder diesel engine Weight: 980 kg L x W x H: 140 x 90 x 145 cm Power: 14.6 kW	
Control console	1 lever for CPT speed 1 lever for fast pulling & pushing	Basic with following extras: + Manometer for total load + Manometer for catch clamp + lever for catch clamp	Advanced with following extras: + Manometer for push/pull clamp + lever for push/pull clamp
	Weight: 30 kg L x W x H: 25 x 25 x 90 cm	Weight: 115 kg L x W x H: 35 x 60 x 115 cm	Weight: 125 kg L x W x H: 35 x 60 x 115 cm
Push clamp	Pushing piece	Mechanical push/pull clamp with clamping blocks	Hydraulic push/pull clamp with clamping blocks
Pull clamp	Mechanical with ball mechanism		
Catch clamp	Mechanical with ball mechanism	Hydraulic with clamping blocks	Hydraulic with clamping blocks

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