a.p.v.d. berg®

CPT TRUCK

With HYSON® 100 kN or 200 kN static cone penetrometer

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Introduction

The A.P. van den Berg CPT (Cone Penetration Test) truck is an ideal vehicle to provide a quick, cost-effective mobile platform for the high-production CPT operator in geotechnical and environmental soil investigations. With CPT's often performed on difficult sites, the need for a robust off-road vehicle has been proven time and again. The truck's weight is sufficient to provide the maximum pushing force, eliminating the extra time and effort needed to set down reaction anchors. The truck's diesel engine powers the hydraulics for the CPT. Practice has proven the CPT truck has gained great popularity among CPT contractors, consulting engineers and project owners.
The need for increased CPT productivity led A.P. van den Berg to their current design, a multi-functional and efficient CPT truck capable of greater depths and higher production rates than any kind of lightweight CPT equipment.
A.P. van den Berg's main goal has been to improve the CPT flexibility, quality and production rates, while providing economy, user-friendliness and easy maintenance.

"Van den Berg in every field"

Truck

The CPT truck can be supplied using trucks from various manufacturers. The CPT work cabin and HYSON equipment can be supplied with the truck at our factory in the Netherlands or assembled onto the truck at the customer's shop. Over the years we have built numerous custom-made CPT trucks and have experience with many different trucks and models. The all-wheel drive 4x4 and 6x6 models have proven most popular among customers. Before installation of the CPT test cabin and equipment, a subframe is installed on the truck's own frame to absorb CPT reaction forces.

CPT work cabin

A spacious and comfortable CPT work cabin is installed on the truck to protect the operators and CPT equipment. Made of steel, fibreglass or plywood laminates, the cabin is designed for maximum production, and features work benches, a desk, chairs, cabinets, equipment storage, electric power, phone, heating, ventilation and air-conditioning, washing and cooking facilities, and more. Our cabin designs promote safe operations, offer reduced noise levels and permit high production rates.

HYSON static cone penetrometer

A.P. van den Berg's unique HYSON penetrometer is an H-form twin hydraulic cylinder set. The low position of the upperbeam provides a convenient working height. The piston rods are fixed to the truck frame: the cylinders move. These safety and efficiency features are found only on the HYSON. The piston rods are hardened, making them practically maintenance free.

The penetrometer is electronically operated by push buttons or hand-operated valves, installed in the control console alongside of the penetrometer. The console also contains truck engine controls, and the CPT data acquisition system.

Quick-acting hydraulic levelling jacks

Three or four hydraulic jacks are mounted to the subframe for raising and levelling of the CPT truck. Operated in the same manner as the penetrometer, the jacks are controlled by push buttons or hand-operated valves and feature optional one-touch automatic levelling.

CPT truck features

Over 30 years of production, A.P. van den Berg has introduced several remarkable efficiency and economic features. These include automatic truck jacking and levelling, semi-automatic penetrometer control, ergonomic positioning of controls and CPT rods, semi-automatic push/pull clamps and the unique "H"-design HYSON penetrometers for easy CPT rod handling. In addition to the standard test speed of 2 cm/s, the HYSON provides higher speeds for pushing to test depth and pulling the rods. The cone damage-protection option for automatic cut-off on exceeding a pre-set measured parameter, like tilt or cone tip resistance, and proportional/manual speed control reduces loss and damage of electrical cones. The use of the latest measuring, data acquisition and sampling techniques and ergonomic features further improves production time and user-friendliness.

Accessories

- Clamps for holding, pushing and pulling CPT rods and casing pipes.
- CPT rods and casing pipes
- Touch-Screen, Golog and I-control data acquisition systems with GOnsite! logging and GO4! plot software
- Electrical and mechanical cones for measuring geotechnical and environmental soil parameters
- Mostap and Wastap samplers
- Rotap rotary driling equiment
- Vatap vane tester
- Dilatometer
- Pressuremeter

We reserve the right to change specifications without prior notice.
Hyson, Golog, Icontrol, GOnsite!, GO4!, Mostap, Wastap, Rotap and Vatap are trademarks of AP van den Berg, Heerenveen.

Specifications

	HYSON 100 kN		HYSON 200 kN	
	Nominal	Maximum	Nominal	Maximum
Pushing capacity	100 kN	125 kN	200 kN	250 kN
	(11 US tons)	(14 US tons)	(22 US tons)	(28 US tons)
Pulling capacity	130 kN	160 kN	260 kN	320 kN
	(15 US tons)	(18 US tons)	(29 US tons)	(36 US tons)
Pushing speed	2.0 cm/s	20 cm/s	2.0 cm/s	20 cm/s
Pulling speed	1.6 cm/s	16 cm/s	1.6 cm/s	16 cm/s

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