



CPT truck

with HYSON 200 kN static cone penetrometer



features

- robust off-road vehicle
- sufficient to provide the maximum pushing force
- the truck's diesel engine powers the hydraulics for the CPT

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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 for 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.

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 sub-frame 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 crawler to protect the operators and CPT equipment. The crawler's engine is located in a separate compartment with extra insulation for noise reduction. Made of plywood laminates, the cabin is designed for maximum production and features such as work benches, a desk, chairs, cabinets, equipment storage, electric power, internet, heating, remote support, air conditioning, washing, GPS 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 main-

tenance free. The penetrometer is electronically operated by HMI, 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 wireless and to be controlled remotely.

CPT truck features

Over 40 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.

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