

STAND ALONE HYSON 200 KN



Product description

Basic set CPT equipment with power pack for the oil supply. The HYSON 200 kN can be used for onshore projects, placed at any vehicle or near shore projects. Mounted on a vehicle the HYSON 200 kN is suitable for making cone tests up to 40 meters (depending on the soil conditions and reaction force). The HYSON 200 kN can also be used for stand alone operation. Therefore a frame can be supplied with connection for ground anchors. With near shore projects an extra hydraulic catching clamp is highly recommended.

Specifications HYSON 200 kN

Type	:	HYSON 200 kN;
Pushing force	:	Nominal 200 kN, maximum 250 kN;
Pulling force	:	Nominal 260 kN, maximum 320 kN;
Force limitation	:	By pressure safety valves;
Speed during pushing	:	2 or 9,8 cm/s;
Speed during pulling	:	1,6 or 5,2 cm/s;
Stroke CPT rig	:	1250 mm;
Bore cylinders	:	Ø120 mm;
Rods cylinders	:	Ø90 mm;
Center to center distance cylinders	:	350 mm;
Feed through	:	Ø100 mm.
Operation	:	By hand valves on console.

Specifications power pack



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|----------------------------|---|--|
| Engine | : | Electrically started Hatz silent pack diesel engine, type 2L41C (25,7 kW @ 3000 rpm). |
| Hydraulic system | : | pump, hydraulic oil tank, valves, oil cooler, generator, 12 Vdc battery and filters. The power pack provides the oil |
| Connection to HYSON 200 kN | : | Hydraulic hoses are included for connecting the Hyson 200 kN to the power pack (length is 8m). |

Included in the delivery

Description :

Carriage. The carriage is mounted underneath the upper beam. In the carriage several tools can be placed for pushing or pulling the penetration string.

Frame for stand alone operations.

Control desk with hand-operated valves for the CPT rig, complete with pump manometers, total load manometer and all the control functions for the power pack.

For bridging the distance between the under beam and the ground level a casing support system can be mounted. The casing support system is provided with a dirt wiper for cleaning the CPT rods. The length of the casing support system has to be specified by the client. We will supply an inner casing for 36 and 56 mm rods.

Manual in English.

Available options for the Stand Alone HYSON 200 kN

Description

Electrically/hydraulically automated control by PLC, with switches detecting the beginning and the end of the stroke. It includes automatic operation of the CPT rig cylinders to stroke automatically over one meter intervals. The movement of the CPT rig can also be controlled manually. For both cases a safety system is build in. With an emergency situation the system can be stopped immediately. The reliable electrical control will highly increase the efficiency and makes the operation of the unit much easier.

Hydraulic push- pull clamp.

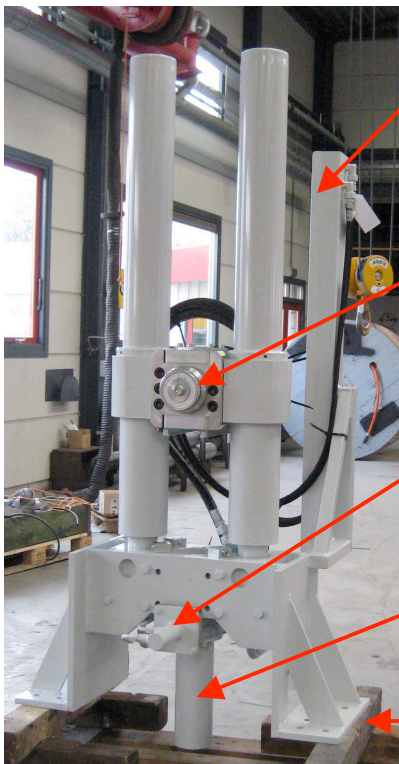
- combined blocks for Ø36 and Ø56 mm rods.
- Very quick adjustment between Ø36 / Ø56
- No slip effects on CPT rods

Hydraulic catching clamp, range 30-100 mm

Sinewave inverter, 750 VA, for the 230 VAC power supply of the data acquisition system and de-airing device.

Tool box with set of tools.

HYSON 200 KN STAND ALONE PHOTO MATERIAL AND CLARIFICATION



Guiding beam for hydraulic hoses, only supplied in combination with the hydraulic clamp

Hydraulic push pull clamp, either manual or automatic controlled. Suitable for Ø36 mm and Ø56 mm rods. Clamp blocks are combined and clamp force is more reliable compared to mechanical push-pull clamp

Hydraulic catching clamp suitable for clamping diameters between Ø30 - 100 mm

Outer casing for proper vertical alignment of CPT rods or casing rods (requires inner casings Ø36 and/or 56 mm)

Rigid frame with hole pattern to connect the stand alone unit easily on existing barge



Total load gauge

Manual controls for:

- 2 cm/s
- 10 cm/s
- Hydraulic catching clamp
- Hydraulic push- / pull clamp