

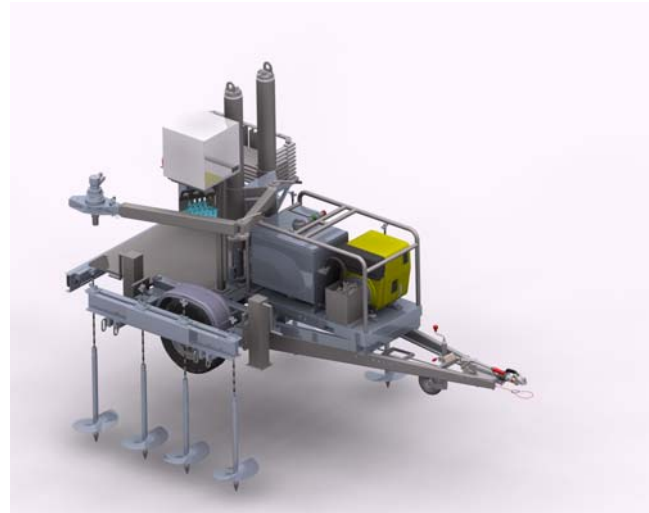
# 200 kN Trailer mounted Penetrometer Pusher



The latest Geomil Trailer Mounted Penetrometer «200 kN/TR» forms a complete make-over. It now provides the proven high quality design with more simple to deploy features, affordable for even small budget constraints.

The value for money unit can be operated in all countries and terrains and does form both, a budget solution for frequent use only as well as a 24/7 duty success guarantor.

It combines the functionality of an easy to haul trailer unit with working platform and, since all components can be detached, stand alone penetrometer pusher for special operation deployment.



The new penetrometer design provides full protection from physical damages to the pistons (e.g. while handling tubes) by two covering cylinders and thus eliminating the risk of hydraulic leakage. Increased working space between the two cylinders eases tube handling and operation.

The solid push-/pull bridge, connecting the protection covers, allows for using all Geomil push-/pull clamps for electrical CPT as well as measuring heads and pulling clamps for mechanical CPT.

The easy to manoeuvre single axle trailer chassis is reinforced by a solid frame with four manually deployed levelling jacks for safe and horizontal positioning.

With the penetrometer positioned centrally the unit's dead weight supports in full the required reaction force. The comfortable working platform allows for operating all components in arm reach. The pusher operation for CPT(U) tests as well as activation of the hydraulic anchoring gear «Hygand» is controlled by a valve block with manual levers.



The optional, pivot mounted weather protective housing for computer and data acquisition system, can assure for reliable sounding results even under worse weather conditions.

When necessary, the penetrometer pusher and power-pack can be detached for stand alone use.

Little but helpful features like lifting eyes on trailer frame and top of pusher covers make it easy to secure the unit while shipped, transported or lifted.

Further options like additional anchor beams, vice, firmly installed or removable catching clamp, weather protection box for computer and data acquisition, DC/AC converter etc. can be considered as well and assist during operation.

Geomil Equipment B.V.  
Westbaan 240 - 2841 MC Moordrecht - The Netherlands  
T: +31 (0) 172 427 800 - F: +31 (0) 172 427 801  
info@geomil.com - www.geomil.com

### Trailer

- Single axle trailer with drawbar, hitch, stabilizer, overrun brake, mud guards and lighting
- Frame reinforcement with working platform, penetrometer support beam, power-pack and tube rack
- Four slide out anchor beams in penetrometer support frame
- Fixed valve block for pusher operation and anchoring (optional)
- Four manually actuated mechanical levelling jacks
- Complete set of fixed flexible hoses, connecting the penetrometer to the power-pack
- Dimensions: 3 700 x 1 875 x 2 840 mm (L x W x H);
- Transport/hauling weight (Pusher and Powerpack mounted): ~ 1 850 kg
- Assembled operation weight (including CPT(U) system and accessories): ~ 2 200 kg



### Hydraulic Penetrometer

- Two vertical hydraulic cylinders, stroke 1 350 mm, with piston protection covers
- Hydraulic control unit, mounted on a console next to the penetrometer
- Guiding tube assembly, to be applied between the penetrometer and ground level
- Maximum 200 kN pushing force, 260 kN pulling force
- 20 mm / sec calibrated speed for CPT testing
- 105 mm / sec max. upward unloaded speed; 145 mm / sec max. downward unloaded speed
- Hydraulic catching clamp integrated in sounding beam
- Dimensions: 2 490 x 650 x 1 290 mm (H x W x L); Weight: ~ 510 kg



### Hydraulic Power-pack

- Driven by Hatz Silentpack 1-cylinder diesel engine of 9.5 kW at 2800 RPM
- Hydraulic tank with built-in axial piston pump with power regulator
- Capacity min. 14 litre/min; Capacity max. 78 litre/min
- Electrically started by means of 12 V / 60 Ah battery
- Fuel tank of 21 litre volume
- The complete unit is built-in in a heavy duty frame work on 4 shock absorbers
- Transport of the power-pack possible with crane or forklift
- Dimensions: 980 x 800 x 1 670 mm (H x W x L); Weight (w/o fuel): ~ 540 kg



### Accessories/Options

- Hygand articulated support for pusher mounting
- Hydraulic catching clamp, integrated in the sounding beam
- Foot actuated (removable) catching clamp
- Hygand: Hydraulic anchoring gear
- 4 Anchors (fixed blades) (Ø 430 x L 965 mm)
- Weather protective housing for computer/data acquisition system
- Tool box