



# GM CPT-U

The Geomachine cone penetration test CPT-U, can be installed for all the modern and recently delivered GM drill rigs

The system complies all the needed components like memory cone, transmitters and data logger. It produces the information according to the Finnish Infra and Swedish SGF format.



The functions:

- The CPT-U device is used together with with the GM standard drill rig mast
- Data is recorded to cone and read out into Rufco DL2 data logger
- Measurement are taken with 0.5s interval, 1 measurement / 1cm
- Investigation is monitored on-line by the Rufco DL2 data logger: depth, feed velocity and pressure force
- Operation temperature -10 - +40, The system provides the information of:
  - Cone resistance
  - Sleeve friction
  - Pore pressure
  - Inclination (optional for Infra format)
  - Relaxation measurement, optional

The delivery:

- CPT-U cone, silicon oil 0.5 l, silicon grease, transport box, manual
- Chargers for CPT-U cone and Rufco DL2
- CPT-U cone options: 10, 5 or 1 ton
- Rufco DL2 data logger
- Ready to use system
- Factory calibrate system with the calibration certificates

CPT-U cone dimensions and capacity:

- Cone tip area: 10 cm<sup>2</sup>
- Diagonal dimension: 36 mm
- Total length: 106 cm
- Capacity: 0.5s measurements, 4 Mb memory, ~15 hours / new batteries
- Range and accuracy:
 

Cone resistance	0-100 MPa,	0.2%
Sleeve friction	0-1 MPa,	0.5%
Pore pressure	0-2 MPa	0.4%
Inclination	-20 - +20 degrees,	0.2 dec

Note: all data is subject to GM further confirmation