

GEOTHERMAL TESTING SYSTEMS



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GEOTHERMAL CONDUCTIVITY TESTING SYSTEMS

This newly patented fully automatic geothermal temperature conductivity apparatus was developed in collaboration in 4 years research work with the Technical University of Darmstadt.

The device allows stress, temperature and volume controlled measurements of the thermal conductivity and thermal diffusivity of different sediments or other materials und calibrated reliable conditions.

Density and compaction can be influenced during the whole test procedure.

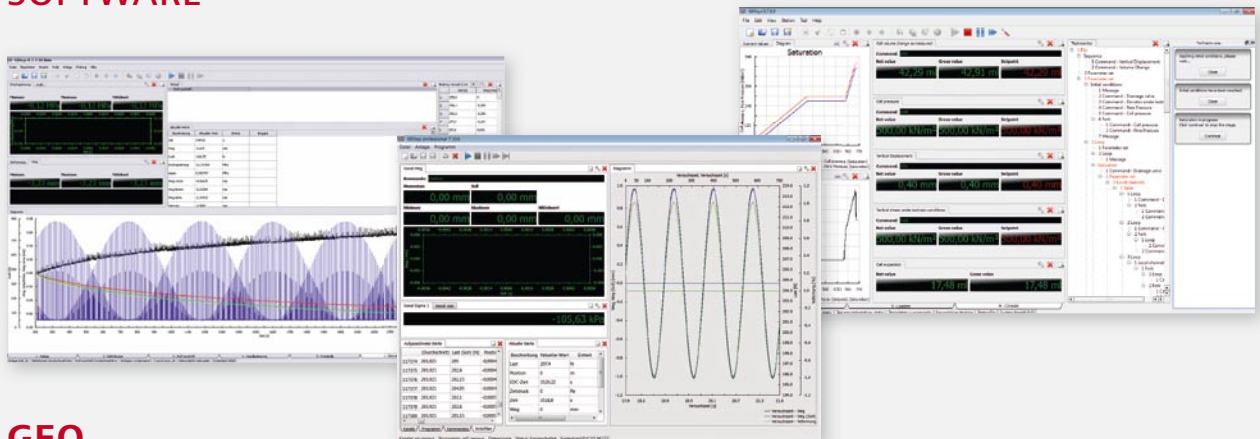
The testing device is characterized by its multiple partially or fully automated integrated control options.



Technical Specifications

Axial force	0 - 60 kN
Sample temperature	-20 to +120 °C
Temperature accuracy	+/- 0,05 °C
Sample diameter	50 up to 100 mm

SOFTWARE



GEO_{sys}

Multifunctional Professional Software for all Static and Dynamic tests

One unique platform with several modules addresses all of your testing needs, being soil, asphalt, rock or material testing, both dynamically and statically. It allows the simply programming of complex user defined test sequences by structured Windows operation on a graphic user interface.

Test Modules:

- Soil Tests
- Asphalt Tests
- Rock Tests

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GEOTHERMAL HIGH PRESSURE/ HIGH TEMPERATURE TESTING SYSTEMS

- This testing system is used to investigate geothermal behavior of rocks under high pressure and high temperature conditions
- The properties of rock by the injection of natural or synthetic high-pressure fluids or vapor can be examined (fracking tests).
- In combination with the examination of geothermal hydraulic and gas conductivity of rock samples the strength properties could be tested as well.
- The complete system is fully automated and controlled by our flexible and programmable GEOsys software. Various Sensors, materials, adapters (sample sizes), testing and experiment options (e.g. permeability) are available.





APS Antriebs-, Prüf- und Steuertechnik GmbH with the brand „Wille Geotechnik®“ is one of the leading companies for geotechnical testing solutions and material testing (building material).

We offer you over 25 years` experience in:

- ▶ Consulting for testing technologies and laboratory equipment
- ▶ Material testing equipment for research and practice
- ▶ Engineering, Construction and Manufacturing
- ▶ Standard and customized solutions
- ▶ Software modules for standard and complex testing procedures and analyses

With us, you can get following services:

- ▶ Calibration
- ▶ Modernization
- ▶ Maintenance
- ▶ Installation
- ▶ Training

Soil

Asphalt

Rock

**Software &
Electronic**

**Geothermal
Testing Systems**

**Large Scale
Testing Systems**

