

Technical data sheet



Item number: 5.00079
MatchCode/Type: ETD10.180
Designation: Ring shear tester
with 10 kN load an 180 N torque
www.geomation.de/en/ETD10.180

Intrastat code: Country of origin: DE **Net weight (kg):** 90,000
Drawing number:
Electrical data: 230 V AC, 50 Hz
Dimensions: 400 x 400 x 1500 mm (BxTxH)
Standards: DIN EN ISO 17892-10
Catchwords: Kreisringscherversuch, Restscherfestigkeit

Characteristics:

- intuitive operation and easy handling with 4,3" touch screen with separate function keys and haptics
- precision electromechanical drive for controlled normal stress generation
- precision electromechanical drive for controlled torsional / shear stress generation
- rugged and functional construction, all surfaces in contact with the sample and all water-swept parts of the shear device are made of stainless steel, incl. porous discs
- testing with load independent shear rates
- testing with constant volume conditions / dilatancy-free testing
- measurement of a external analog signal (e.g. pore pressure sensor)
- serial interface for PC-controlled testing with data logging using a standard-PC with the software GeoDESC

Delivery including:

- Sensor 10 kN for load measurement
- Sensor for torque measurement

Technical Specifications:

- max. load: 10 kN
- max. normal stress: 5000 kN/m²
- sample area: 50 cm² (according to shear cell)
- max. shear stress: 900 kN/m²
- max. shear rate: 50 °/min
- max. speed vertical: 10 mm/min (during test); 50 mm/min (during setup)
- max. shear path: 100 m (electronically limited, based on effective radius)
- max. settlement: 75 mm, depending on the dial gauge used
- interface: RS232
- dimensions: 1500 x 400 x 400 mm (HxWxD)
- weight: approx. 90 kg
- power supply: 230 VAC, 50 Hz

Scope of delivery (for 1 pcs.):

Quantity	Article-No.	Discription
1 pcs.	F.00749	Module ETD10.180 - ready-to-use basic device
1 pcs.	E.00100 KGNW3SW1	Mains cable with IEC plug 3m
1 pcs.	E.00104 RS232-CABL-5M	Serial data cable 9-pin, RS232, length 5m

Recommended accessories (not included):

Quantity	Article-No.	Discription
1 pcs.	5.00003 ESD10.5 CYCLIC	Cyclic / reversing testing for shear devices ESD10.5

Recommended accessories (not included):

Quantity	Article-No.	Discription
1 pcs.	5.00080	SBCC50.94.50.20 Ring shear cell 50 cm ² (Ø 94 / 50 mm)
1 pcs.	9.00043	EXL.RINGSHEAR EXCEL template for shear testing
1 pcs.	9.00008	EXL.SHEAR. evaluation modul shear test PROT