

Technical data sheet

Item number: 5.00018

MatchCode/Type: EVT3

Designation: **Laboratory vane tester 3Nm**
for determining the undrained shear strength of soils
www.geomation.de/en/EVT3

Intrastat code: Country of origin: DE **Net weight (kg):** 29,647

Drawing number:

Electrical data: 230 VAC, 50 Hz

Dimensions: 530 x 450 x 800 mm

Standards: DIN 4094-4

Catchwords: Flügelsonde, undrainierten Scherfestigkeit, Flügelscherversuch



Characteristics:

- Automatic laboratory vane shear tester for determining the undrained shear strength of soils with a viscous to stiff consistency
- intuitive operation and easy handling with 4,3" touch screen with separate function keys and haptics
- precision electromechanical drive for generating the shear stress
- Robust construction with a very stiff measuring frame and height-adjustable measuring crossbeam
- Low-friction bearing of the entire vane drive, so that frictional forces, gear efficiency or bearing friction have no influence on the torque measurement
- separate measurement of the torques "right" and "left" by precision sensors made in Germany
- Tare function for torque measurement
- Vane assembly using a clamping device
- Large base plate to accommodate nozzles and other sample containers up to Ø 210 mm
- Practical quick-release device with one-hand operation for holding and fixing the sample container
- serial interface for PC-controlled testing with data logging; cyclic measurement data logging, displaying and transferring to Microsoft EXCEL for advanced evaluation purposes

Specifications:

Max. torque: 3 Nm
Resolution: 0,001 Nm
Max. Shear stress: up to 700 kN/m², depending on the vane used
Max. rotation speed: 20 °/s
Shear path: unlimited
Power supply: 230 V AC / 50 Hz
Dimensions EVT3: 530 x 450 x 800 mm (BxTxH)
Dimensions Control box: 255 x 330 x 155 mm (BxTxH)
Weight: 29,5 kg (EVT3); 5 kg (Control box)

Scope of delivery (for 1 pcs.):

Quantity	Article-No.	Description
1 pcs.	F.00478	EVT3 assembly - ready-to-use mechanics
1 pcs.	F.00411	EVT3.Control 3U control box for EVT3
1 pcs.	E.00100	KGW3SW1 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.	Description
1 pcs.	5.00019	EVT-12,7-12,7 Vane for Vane tester, size 12,7 x 12,7 mm
1 pcs.	5.00020	EVT-12,7-19 Vane for Vane tester, size 12,7 x 19 mm
1 pcs.	5.00021	EVT-12,7-25,4 Vane for Vane tester, size 12,7 x 25,4 mm
1 pcs.	5.00022	EVT-20-30 Vane for Vane tester, size 20 x 30 mm
1 pcs.	5.00059	EVT-30-20 Vane for Vane tester, size 30 x 20 mm

Recommended accessories (not included):

Quantity	Article-No.	Discription
1 pcs.	5.00060	EVT-25,4-50,8 Vane for Vane tester, size 25,4 x 50,8 mm
1 pcs.	5.00023	EVT-30-60 Vane for Vane tester, size 30 x 60 mm
1 pcs.	5.00024	EVT-40-80 Vane for Vane tester, size 40 x 80 mm
1 pcs.	5.00066	EVT-30-80 Vane for Vane tester, size 30 x 80 mm
1 pcs.	9.00022	EXL.EVT EXCEL-template for vane testing