

SOIL MECHANICS TESTING MADE EASY

TORSHEAR

Wf Wykeham Farrance



Automatic Ring Shear Testing Machine for Residual Strength of Soils

Standards ASTM D6467 | ASTM D7608 | BS 1377:7



Torshear EmS is a versatile and fully automatic ring shear testing machine that benefits from the new low maintenance, efficient and environmentally-friendly Electromechanical Servoactuation (EmS) technology.

Silent, compact and high-performing, the Torshear EmS testing system can be run stand-alone or via our ingenious software that can connect up to six units with just one PC, enabling you to expand your laboratory gradually and seamlessly.



Fully automatic standalone ring shear soil testing system managed by local user interface with 6" touch screen high resolution color display for performing torsional ring shear test in drained condition to determine the residual shear strength of cohesive soil.



Modular and expandable — the optional dedicated software allows you to gradually connect up to six units via LAN port using the same PC enabling you to build your laboratory without interruption and resulting in excellent return on investments.



Environmentally friendly and quiet
— the Torshear EmS benefits from the new
Electromechanical Servoactuation
(EmS) technology.



High-performing with maximum vertical stress 1,200 kPa and maximum shear stress 1,000 kPa, infinite variable speed from 0.00001 to 1000°/min, with pre-shearing stage selectable and adjustable number of cycles of shearing.



Lightweight and compact system is easy to handle, can be located on a standard bench, has a small footprint and maximizes the use of space in your laboratory.



corrosion-free, stainless steel ring shear box fitted with easy removable sintered porous stone with specialized pattern design offering excellent resistance to corrosion, wear and tear to chemicals often mixed with soil specimens.

Long-life and low maintenance with



Smart and easy-to-use system with removable load cells and displacement

with removable load cells and displacement transducers simplifies testing, maintenance and calibration.



Technical Specifications

Maximum Vertical stress: 1,200 kPa

Maximum Shear stress: 1,000 kPa

Test speed: from 0.00001 – 1000°/min

Weight approx.: 60 kg

Specimen dimensions: Internal dia. 70 mm; external dia. 100 mm

Sample Area: 40 cm²
Weight approx.: 60 kg

Sample thickness: 5 mm (various thicknesses available on request)

Ordering Information

27-WF22E02 Torshear EmS – Electromechanical Servoactuation technology, automatic ring shear testing machine.

220-100 V / 50-60 Hz / 1 Ph













Advanced Automatic Direct/Residual Shear Testing Machine

Wykeham Farrance Customer Care

At Wykeham Farrance, we are proud of our products.

As a valued customer of Wykeham Farrance, you will receive continuous, expert support and advice for your instrument. Furthermore, we offer full installation and training in the correct operation of your soil testing equipment.

For support from our expert Customer Care Team, contact your local Wykeham Farrance distributor or email wfsupport@controls-group.com.

Visit our website for more information www.controls-group.com/wf.



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