MATEST

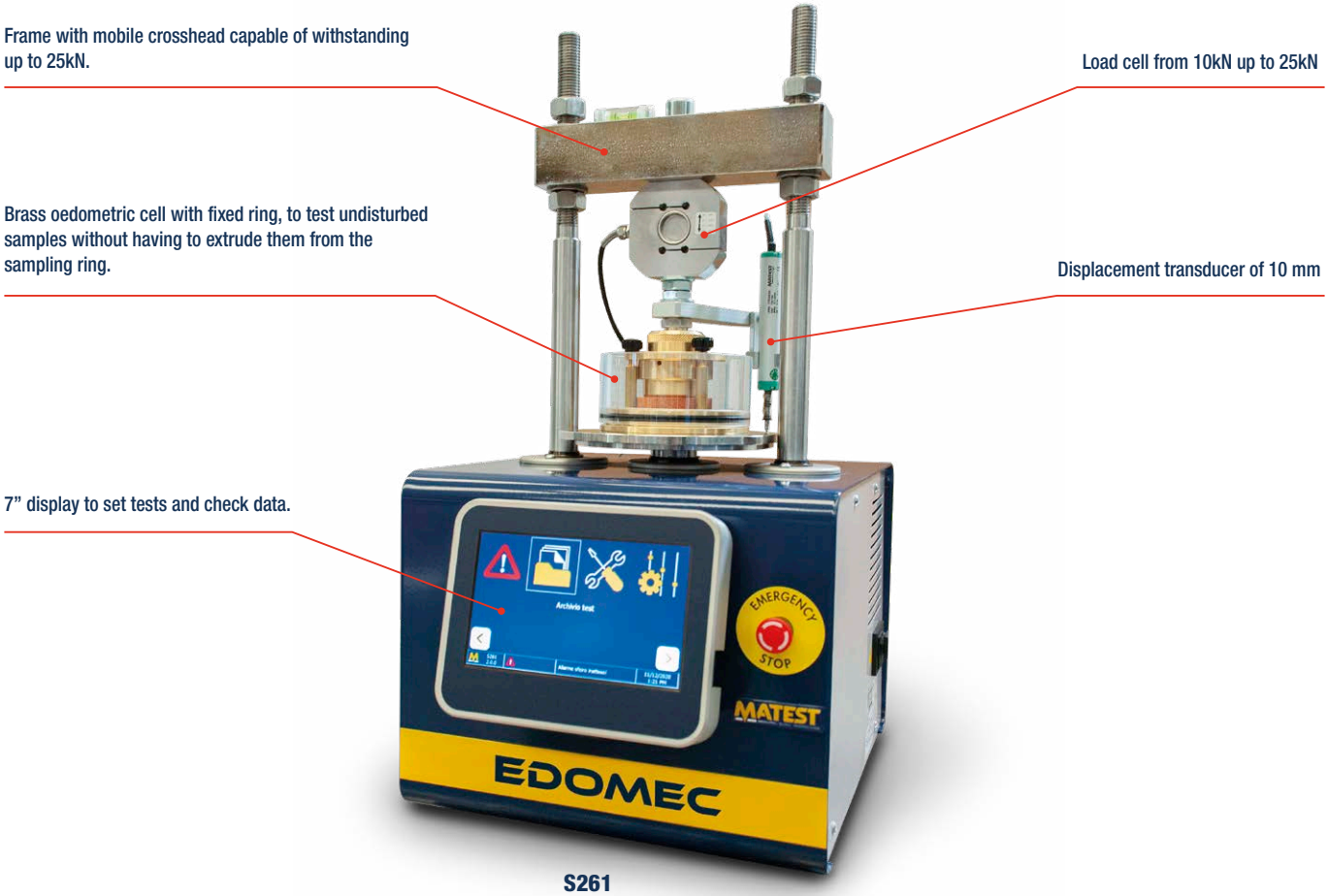
EDOMEC
AUTOMATIC CONSOLIDATION APPARATUS (OEDOMETER)
ADVANCED ELECTROMECHANICAL SYSTEM

STANDARDS: BS 1377:5 I ASTM D2435, D3877, D4546 I AASHTO T216
NF P94-090-1, NF P94-09

Matest automatic odometer has a particularly precise technology for controlling the application of loads, based on a robust servo-controlled electromechanical actuator and optimized control algorithms that allow high precision at low loads and high speed of load application at high loads.

Edomec is the ideal solution for modern and efficient laboratories, that eliminates or reduces to the absolute minimum any forms of manual intervention, and performs both standard and research tests.

The test is configured using a special test icon, where it is possible to freely set loads and acquisition times. The large 7" display make it easy to view test data and graphs.



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MAIN FEATURES

- Automatic calculations and real time display of graphs and results according to the selected standard.
- Possibility to run tests 24/7
- Maximum vertical force: up to 25 kN
- Minimum speed: 0,00001 mm/min
- Maximum speed: 99,99999 mm/min

TECHNICAL SPECIFICATIONS

- Standard load cell: 10 kN (up to 25 kN on request)
- Precision of load and displacement measurement: 0.15% at full range
- Vertical displacement: up to 25 mm
- Vertical clearance: from 165 mm up to 185 mm with extension columns
- Maximum diameter of the consolidation cell: 112.8 mm
- Class 1 calibration certificates available for load cell and displacement transducer.

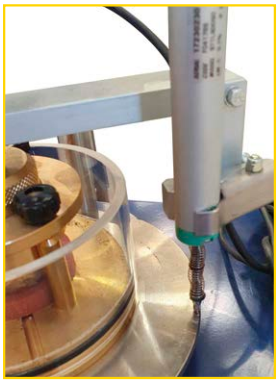
Power supply: 230V 1ph 50-60Hz
Dimensions: 331x337x662 mm
Weight: 50 kg approx.

SMARTLAB

SmartLab is a revolutionary software that interfaces Edomec with laboratory management systems and regulates the consolidation test, as well as all the other geotechnical tests, from data acquisition to advanced and customizable data processing and to the creation of test reports. Management and monitoring of tests, which can be shared with customers, take place in real time, even remotely and with any device, including tablets and smartphones.

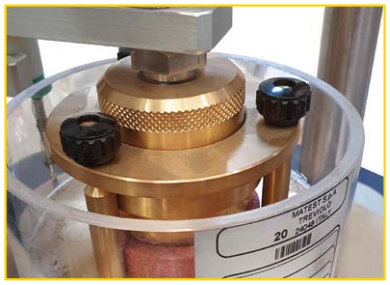
DETAILS MAKE THE DIFFERENCE

Mobile crosshead for vertical clearance adjustment and adaptation to different cells.

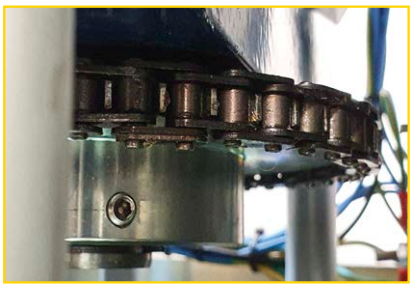


Possibility to install displacement transducers having different capacities.

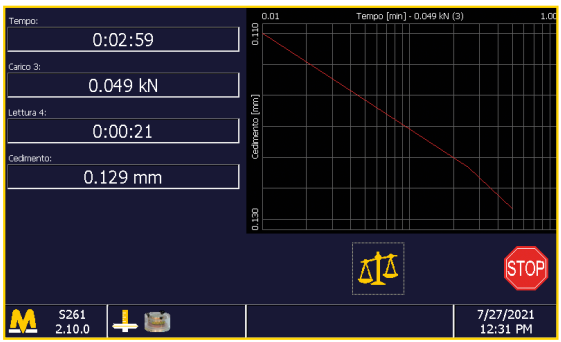
Possibility to install load cells having different capacities, in addition to 10 kN standard load cell.



Brass oedometric cells with fixed ring, having diameters from 50.47 to 112.80 mm



New electromechanical actuator to control the load application.



The test is fully configurable from the display and shows test data for the entire duration of the test.

Possibility to connect the instrument to SMARTLAB software for remote control and data processing.