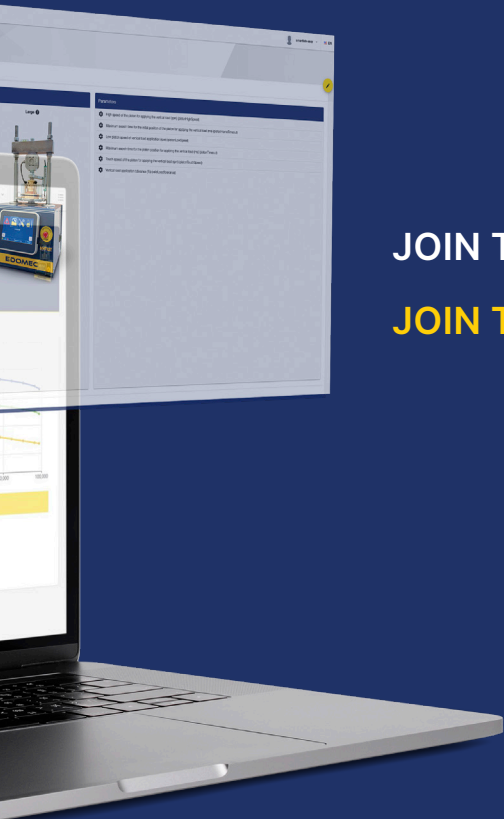




INNOVATIVE
SOFTWARE PLATFORM
FOR MATERIAL TESTING EQUIPMENT

MATEST[®]
INNOVATIVE. GLOBAL. MANUFACTURER.




JOIN THE INNOVATION
JOIN THE **SMARTLAB** UNIVERSE

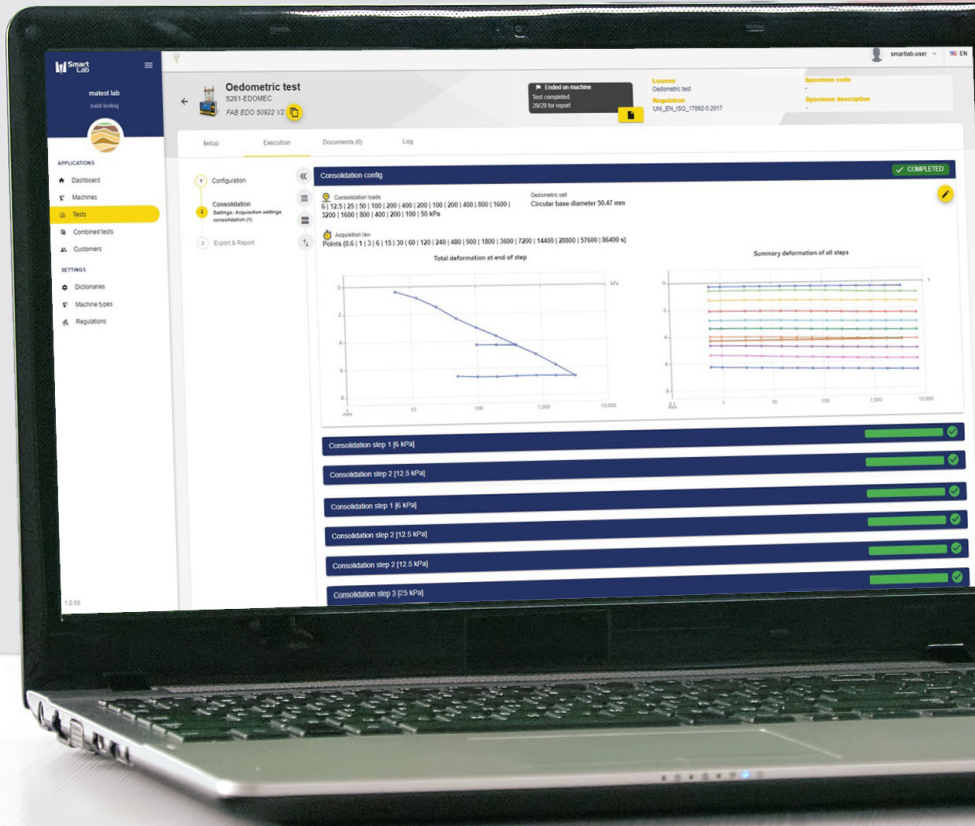
Powered by
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WHAT IS SMARTLAB?

The **innovative software platform** developed by Matest for tests on construction materials. It enables the remote control of testing equipment and data acquisition and processing according to international test standards.

The computer on which it is installed acts as a server and, thanks to the Internet connection, also allows other devices (e.g. other PCs, tablets) **to access SmartLab via browser.**





- 1 Configuration
- 2 Consolidation
- 3 Export & Report

Consolidation config

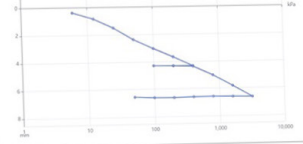
COMPLETED

Consolidation steps
Settings: Acquisition settings
consolidation(3)

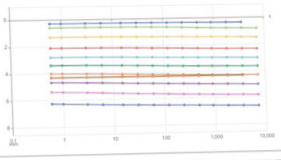
Demomex cell
Circular base diameter 50.47 mm

Acquisition line
Points (0.4 | 1.3 | 6 | 15 | 30 | 60 | 120 | 240 | 480 | 900 | 1800 | 3600 | 7200 | 14400 | 28800 | 57600 | 86400)

Total deformation at end of step



Summary deformation of all steps



- Consolidation step 1 [0 MPa] ✓
- Consolidation step 2 [12.5 MPa] ✓
- Consolidation step 1 [0 MPa] ✓
- Consolidation step 2 [12.5 MPa] ✓
- Consolidation step 2 [12.5 MPa] ✓
- Consolidation step 3 [25 MPa] ✓

HOW DOES SMARTLAB WORK?



Laboratory management software
ERP / LIMS



SmartLab Protocol



(PC acting as a server)
with SmartLab platform



INTERNET

network

Other devices
connected to Internet
PCs/Tablets

Test reports and TXT/XLS
export of results



SmartLab modules

Soil

Digital and automatic
oedometer/shear
Digital and automatic
triaxial

Concrete and cement

Compression/FRC
Universal machines

Asphalt

Gyratory compaction
CBR/Marshall/IDT/SCB



And many many others...

WHAT CAN I DO WITH SMARTLAB?

SmartLab allows the user to manage and control testing machines, enter data and setup parameters, display results in graphic and numerical format both in real and deferred time, create archives, process results as required by international standards and generate customizable test reports and certificates.

SmartLab is a modular system,
specific to each type
of **machine and test:**

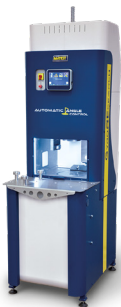


SmartLab Soil

oedometric
consolidation, shear,
triaxial, etc.

**SmartLab Concrete
& Cement**

compression,
flexure, indirect
tensile, elastic
modulus, FRC, etc.



SmartLab Asphalt

compaction, rutting,
SCB, etc.

SmartLab UTM

tensile and
compression with
universal testing
machines

**SmartLab General
Purpose**

data acquisition

WHY SHOULD I BUY SMARTLAB?

SmartLab **is the best answer to the needs of a modern and sustainable laboratory,** because it **creates value** in terms of efficiency, reliability, safety and traceability.



Happy SmartLab

A multi-level structure and an intuitive general dashboard provide a tidy and easy-to-navigate overview of all the connected machines.

- Smart Lab
- Laboratorio Testi S.r.l.
- Soil testing laboratory
- APPLICAZIONI
- Dashboard
- Machines
- Tests
- Combination tests
- Customers
- SETTINGS
- Dictionaries
- Machine types
- Regulations
- ADMINISTRATIVE
- Laboratories

Geometra Rossi - C
 Oedometer - A001
 Prova edometrica fondazioni

Setup Execution

- Configuration
- Consolidation
- Report

Created by: MR | Created on: 28/05/2021 14:10:00

report_edometrico.pdf

report_edometrico.pdf

Smart Lab

Oedometric test

Customer
 Geometra Rossi
 Via...
 00100
 Roma

Geotechnical sample data
 Sample ID: ...
 Location: ...
 Depth: ...

Specimen preparation data
 Sample ID: ...
 Initial height: ...
 Final height: ...

Time (min)	Vertical stress (kPa)	Vertical strain (%)
0	1.00	0.00
10	1.00	0.05
20	1.00	0.10
30	1.00	0.15
40	1.00	0.20
50	1.00	0.25
60	1.00	0.30
70	1.00	0.35
80	1.00	0.40
90	1.00	0.45
100	1.00	0.50
110	1.00	0.55
120	1.00	0.60
130	1.00	0.65
140	1.00	0.70
150	1.00	0.75
160	1.00	0.80
170	1.00	0.85
180	1.00	0.90
190	1.00	0.95
200	1.00	1.00

Operator: John A. Brown

Head of laboratory: Mary J. Smith

Tested at: via dell'Industria 25, Torricella BO, Italy
 VAT Number IT 01666470166



Simultaneous connection

SmartLab, through a LAN connection, can simultaneously and efficiently manage a virtually unlimited network of Matest machines.



Tablet-friendly

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.



Sustainability

A single computer to control an unlimited number of machines by automating all data transfers without having to generate paper documents.



Data safety

Assured through strict control of access and redundant data storage, compliant with the most rigorous safety requirements.



Single and multiple functions

A single basic platform on which to install an ever-increasing number of modules, specific to each test application, from any sector.



Interactive

SmartLab is designed to communicate automatically with any management software used in the laboratory (ERP and LIMS), through the Smart-Lab Gateway protocol.



Solid and reliable

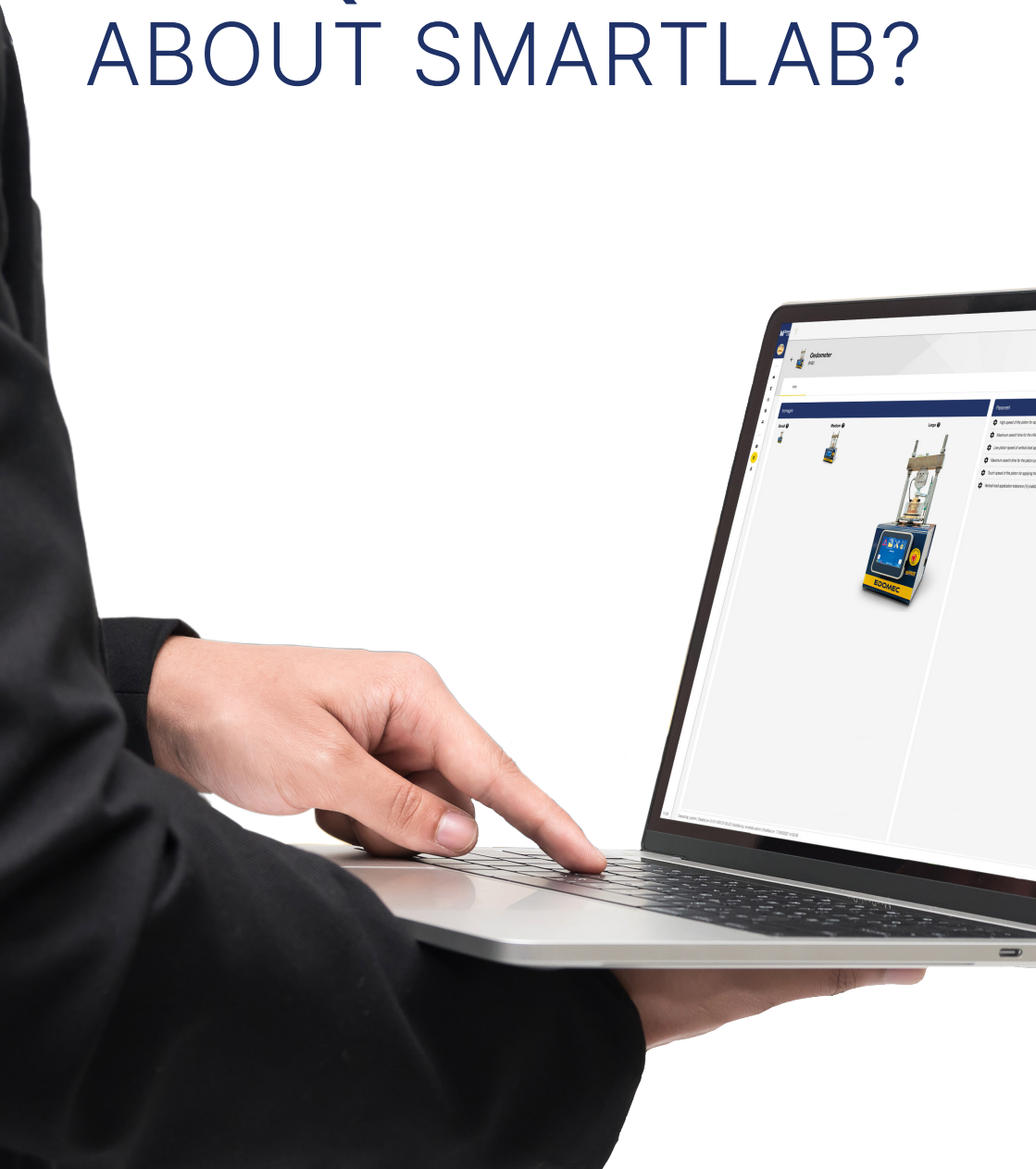
The SmartLab Matway communication protocol, tested even in the most severe conditions, operates and synchronizes all Matest machines in a stable and safe way.



Reporting tools

SmartLab delivers complete test reports and certificates that are customizable in some sections, structured according to regulations and easy to export in numerous formats.

ANY QUESTIONS ABOUT SMARTLAB?





1. How is SmartLab installed?

Simple and immediate download via a link.

2. How can I order SmartLab?

Depending on the type of test, you can choose one or more test modules.

3. Can SmartLab be connected to existing machines?

Yes, it is sufficient to digitize data acquisition using Matest dataloggers and any system, even a non-Matest system, can be connected to SmartLab.

4. Does SmartLab require an Internet connection?

It does not require an internet connection, because it works locally, but, if connected to the internet, it allows you to take advantage of all the extensive networkability functions it is equipped with.

5. Does SmartLab need a very high-performance PC?

No, it does not require a very high-performance PC, a latest generation PC is sufficient (min.: i5, HD 100 SSD, RAM 16 GB).

6. Can SmartLab be updated over time?

Yes, Matest periodically releases updates and it is also possible to add test modules that were not initially foreseen.



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