



HUMBOLDT

Auto, Touch-Screen Vicat H-3052A.3F

VICATRONIC

Automatic Touch-Screen Vicat Apparatus

Standards: ASTM C187, C191 | AASHTO T131,
EN 196-3, 480-2, 13279-2 |

The new H-3052A.3F Vicatronic apparatus is designed and manufactured using the most recent and sophisticated technology to provide precise measurements for setting time of cements, mortars, gypsum and other pastes.

The unit is manufactured with anti-corrosion components, which exceed relevant standard specifications for humidity and temperature.



7" touch-screen display with user-friendly interface

Automatic sample-positioning system

Extremely light carbon fiber outside casing

High precision sensor for the probe positioning

Built-in printer to directly print test results

2 USB ports to save and transfer data

H-3052A.3F

Main Features:

- LCD, TFT, 800x480 pixels, 7" touchscreen
- 2 USB ports
- Real-time graphic display of the test.
- Fully-automatic execution of the tests
- Pre-set penetration cycles based on standards
- Customizable programs for research tests
- Easy data transfer simply using a USB stick
- Free-fall or guided-fall option

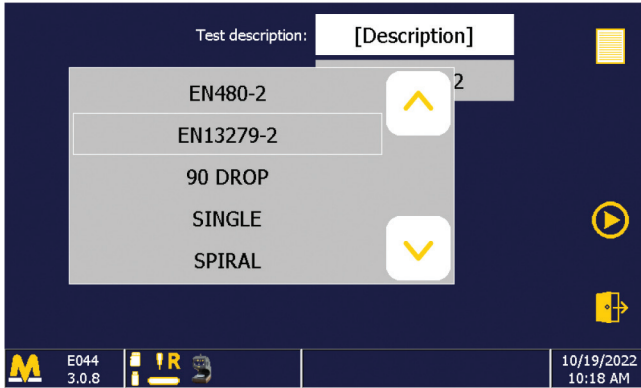
Technical Specifications:

- Internal encoder with 0.1mm resolution
- Windows-based interface (no PC required)
- Time between penetrations: 15 seconds
- Mobile probe (300g) included
- EN (Ø1.13mm) and ASTM (Ø1mm) needle included
- EN (Ø70/80) and ASTM mould (Ø60/70) included
- Power supply: 120/220V 50/60Hz
- Dimensions: 240 x 360 x 440mm
- Weight: 28.6 lbs. (13kg)

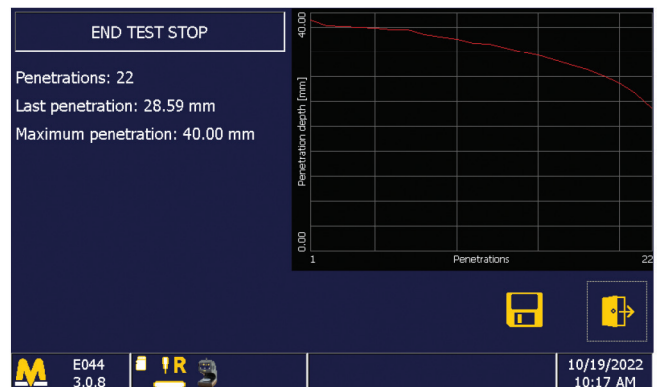
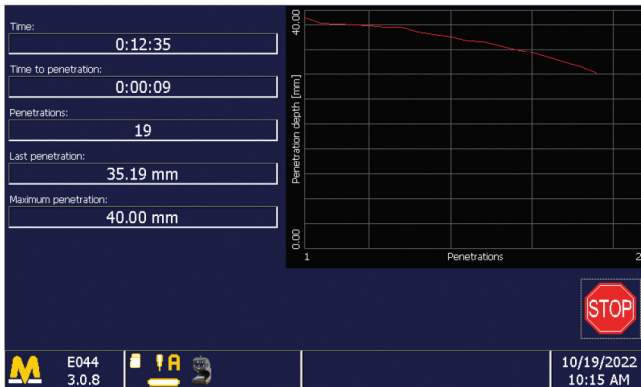
Specifications

The Vicatronic is the most popular automatic vicat apparatus available in the market today. This latest generation of the Vicatronic merges the precise and reliable mechanisms people have come to expect with a totally new electronics/display and innovative body made from light and robust carbon fibre.

New User Interface with Easy-to-Use, Step-Through Operation



Test settings: test description, standards of reference, type of fall, final setting, penetration time



Test Execution

The real-time display shows penetration data and a graph of the test. Data includes: time, number of penetrations, last penetration and maximum penetration.

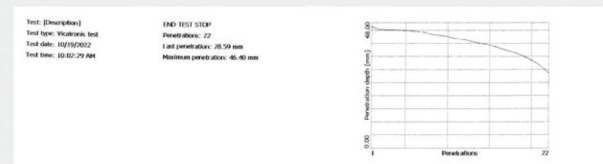
Test Results

A final graph and calculations are automatically displayed at the end of the test.

INTEGRATED PRINTER

to provide immediate print out of the following data:

Test: vicat test 001	END TEST STOP
Test date: 20/10/2022	Penetrations: 15
Test time: 10:30:45 AM	Last penetration: 25 mm
	Maximum penetration: 40 mm



Example of printed report

Accessories

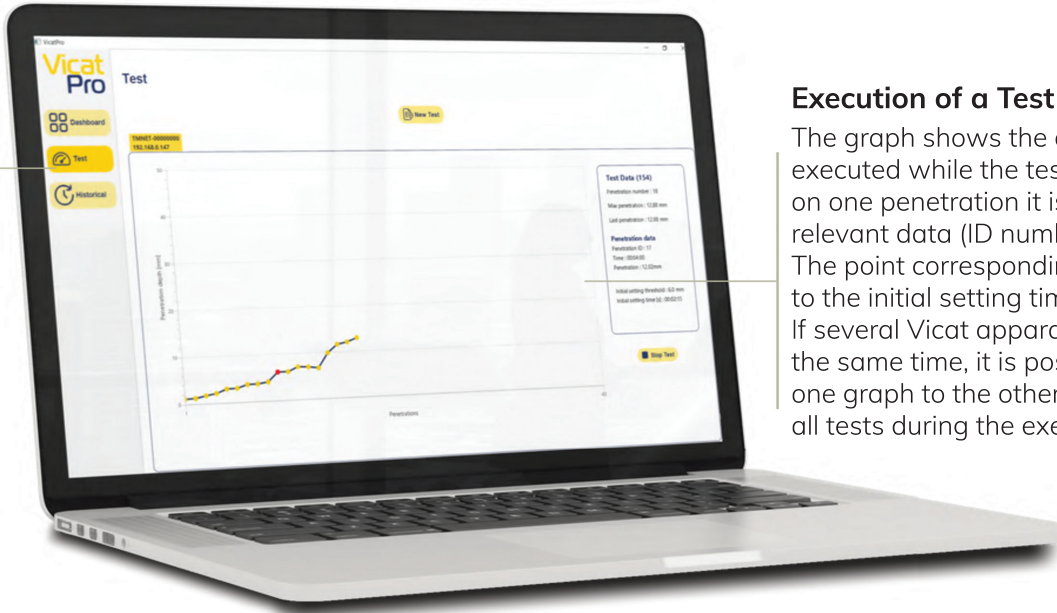
- H-3052.3 EN 196-3 Mold container for tests on submerged specimens
- H-3052.21 EN 196-3 Device produces water at 20°C for submerged specimen tests
- H-3052.10 Needle cleaning device
- H-3052.40N Conical penetration needle for gypsum paste tests (ø8mm, length 50)
- H-3052.41N Probe 100g, for gypsum tests following EN, DIN specifications

Software For Vicat Apparatus

STANDARDS: EN 196-3, 480-2, 13279-2 | ASTM C187, C191 | AASHTO T131

VicatPro is the latest software fully developed by Matest for the acquisition and management of tests on Vicat apparatus. It allows, via the Ethernet port, to download and manage all data directly from the PC. Its user-friendly interface allows to quickly set and start a test, even simultaneously on many Vicat apparatuses, which then perform the test in a completely automatic way. All the tests performed are stored into the software database and can be recalled and exported in a second time.

VicatPro is compatible only with model E044M equipped with the enabling for remote control E044-12M.



Execution of a Test

The graph shows the different penetrations executed while the test is running, clicking on one penetration it is possible to see the relevant data (ID number, time and penetration depth). The point corresponding to the initial setting time is highlighted for easy recognition. If several Vicat apparatuses are working at the same time, it is possible to switch from one graph to the other in order to supervise all tests during the execution.

Main Menu

The menu allows to switch among the main functions: Dashboard where you can see the vicat connected to VicatPro, their settings, status and ongoing operations; Test where it is possible to set a new test and visualize the test running; Historical where it is possible to visualize the database and every single test executed with the possibility to export them.

PC Minimal Requirements for Running VicatPro:

- Processor: 1 GHz or bigger, single-core or multi-core.
- Screen: 15" monitor with a minimum resolution of 800 x 600 small characters.
- Software: Windows 8 or later

Main Features:

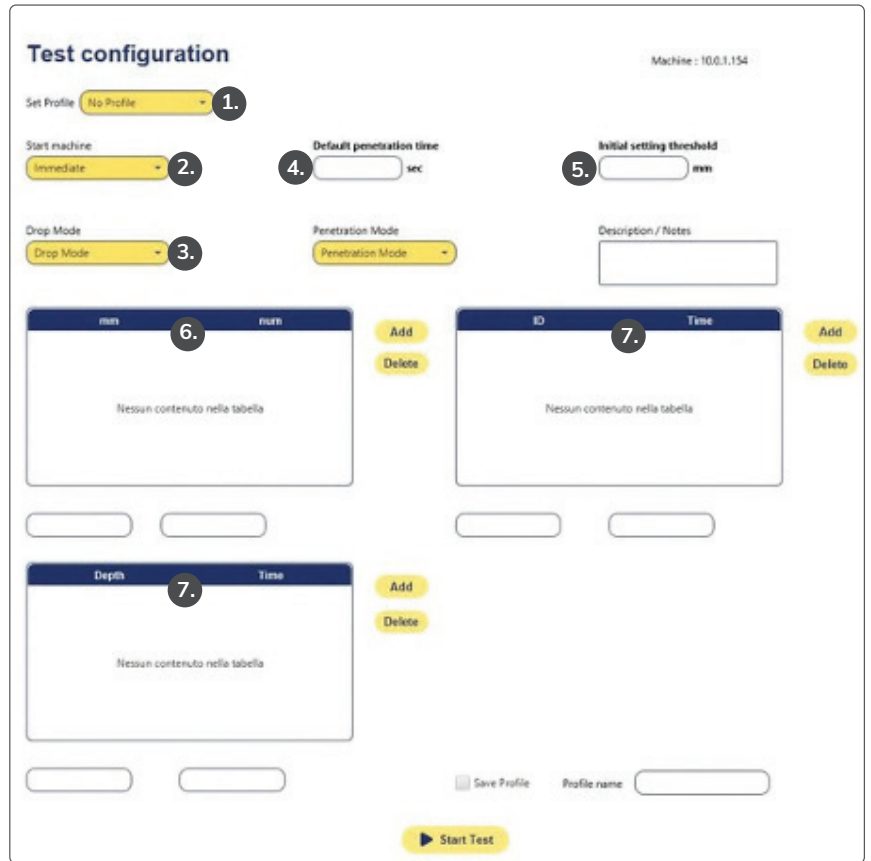
- VicatPro acquires data and manage the Vicat apparatus
- Connection via network or LAN cable
- Up to 20 Vicatronic can be connected and used simultaneously
- It is possible to set a test start time
- A single archive to manage all tests
- Possibility of exporting the report in .xls format

Software For Vicat Apparatus

Test Configuration

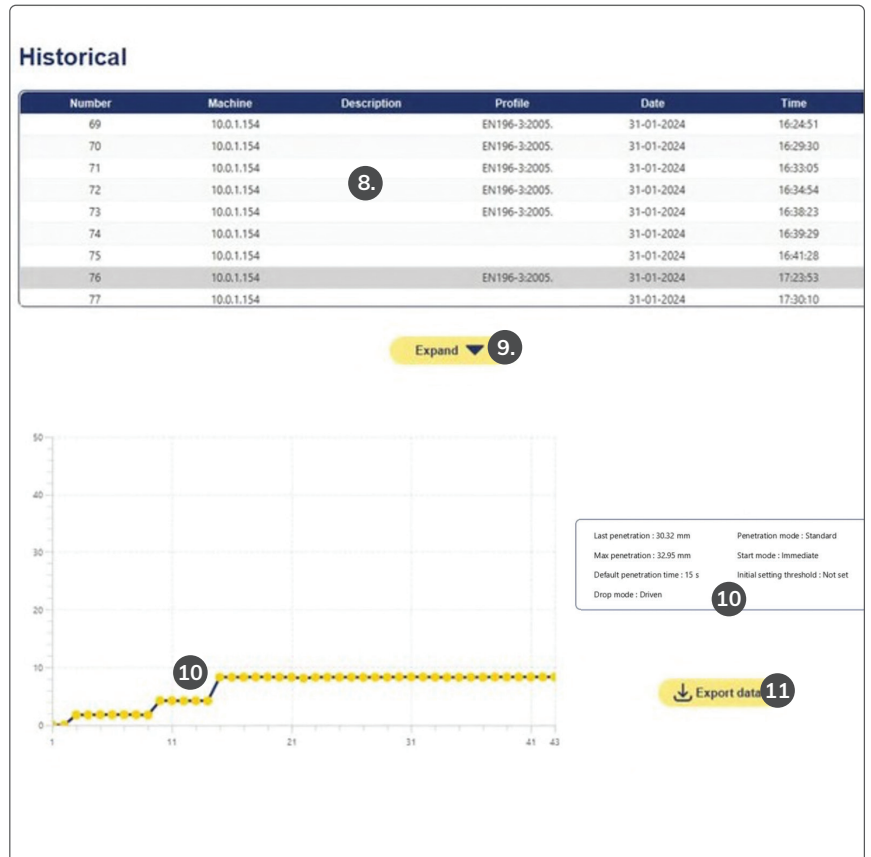
Test configuration is swift, particularly with a chosen reference standard. Moreover, users can effortlessly customize tests and save them in the profile list.

1. Choose the profile according to the reference Standard or among custom profiles.
2. Possibility to immediately start the test or to schedule the starting of a test at a determined hour or with a time delay.
3. The probe can move freely (for gravity) or driven
4. Default penetration time allows to choose the time between a penetration and another (in seconds).
5. Determination of the initial setting time (optional)
6. Based on the selected Standard, the default table of penetrations will be displayed
7. Possibility to set different penetration paths according to the number of penetrations executed or to their depth.



Historical

8. Review of completed tests.
9. Allows to view the initial data of the selected test.
10. Possibility to see the data related to each individual penetration by clicking on the corresponding dot.
11. Export the test data in Excel format.



Accessories

- Ethernet cable, 5 m long (1 for each Vicat to be connected to VicatPro)
- Hub to connect 2 to 7 Vicat apparatuses



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