

# **AUTOMATIC VICAT X6**



Maximize precision and productivity in cement consistency and setting time testing with our Advanced 6-Station Automatic Vicat Testing Device. Designed for professional cement testing laboratories, this device streamlines the testing process by allowing simultaneous analysis of up to six samples, significantly enhancing efficiency and throughput. Engineered to deliver high-quality, reliable results that meet industry standards **EN 196-3** and **ASTM C191**, it is the ideal choice for labs prioritizing accuracy and efficiency in cement testing.



## **VTR 1022**



# Vector Automatic Vicat

## Precise and Efficient Cement Setting Time Testing

### Overview

Our 6-station Vicat testing device features twelve independent Vicat molds, each capable of precise initial and final setting time measurements. With variable dynamic impact control, each mold can be tested independently and simultaneously, offering customizable test intervals tailored to specific testing requirements. This flexibility allows for the testing of different samples at different times, accommodating varying cement types and testing schedules.

The device captures the entire chronological sequence of the setting process, not just the traditional 'start of setting' and 'end of setting' values. This comprehensive evaluation is essential for understanding the setting behavior of modern construction materials, which often feature special properties requiring detailed analysis.

Equipped with advanced software developed by the Vector, the device enables real-time monitoring of all tests on a single screen. The software records each impact's temperature and penetration depth with an impressive accuracy of 0.1mm, providing detailed data for in-depth analysis. It supports dynamic adjustment of penetration step times based on automatic detection of the setting time, offering a high level of control and precision.

The device allows for both dry and underwater testing. Underwater testing offers the advantage of maintaining optimal environmental conditions, such as temperature and humidity, which are critical factors in accurate cement testing. The integrated water tank with circulation and drainage ports ensures a stable temperature in the test chambers, and the device records the water temperature at every test impact.



# Vector Automatic Vicat

## Precise and Efficient Cement Setting Time Testing

Safety and ease of maintenance are integral to the device's design. All moving parts are equipped with safety sensors to prevent operation outside specified limits. The drop system uses contactless sensors for reliable performance, and the automatic needle cleaning system prevents mortar residue build-up, allowing for quick and easy needle replacement. Needle drop height adjustments can be made directly from the software, enhancing user convenience.

The user-friendly software generates comprehensive PDF reports, capturing the start, end, and duration of all tests. It includes fields for operator and company details and allows for logo insertion, ensuring that reports are professional and personalized. With the ability to save unlimited test results, labs can easily track and compare data over time. USB connectivity facilitates secure and straightforward data transfer, and the software's password protection enhances security.

Our device is fully compliant with EN 196-3 and ASTM C191 standards, with free-fall needle weight and dimensions aligned accordingly. Users can configure the number of impacts and starting positions via the software, with each mold customizable for specific cement and water mix recipes.

The device also captures false final setting times, ensuring accuracy in all measurements. Additional software features can be added upon user request, making the device customizable to meet specific testing needs.

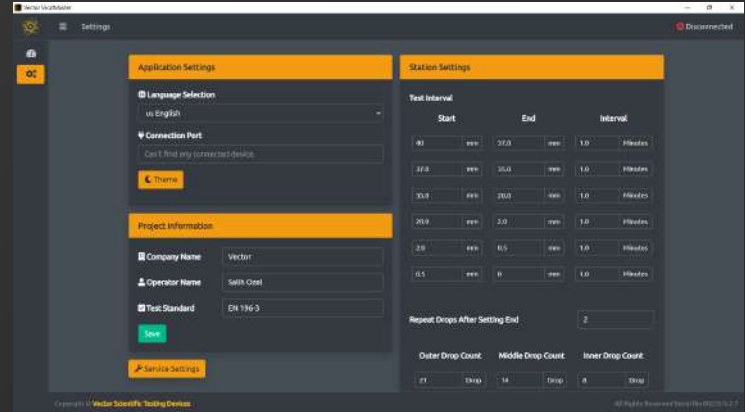
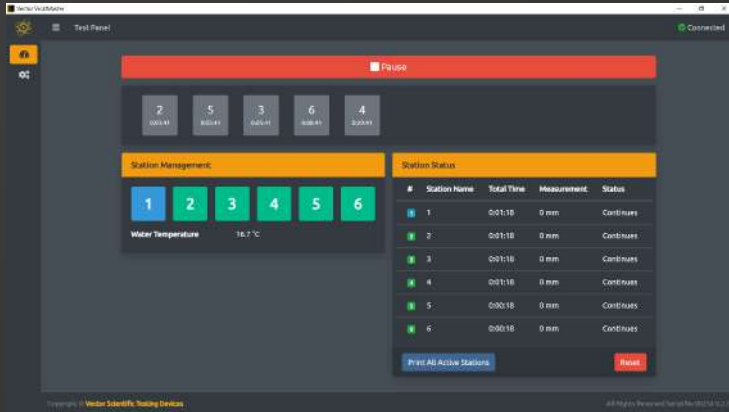
Device comes with comprehensive support, including warranty and spare parts guarantee. Full software and technical service support are provided, ensuring that your investment is protected and that your lab can operate with confidence.

Our Advanced 6-Station Automatic Vicat Testing Device redefines efficiency and accuracy in cement consistency and setting time testing. By automating the testing process and providing precise, reliable measurements, it helps laboratories enhance productivity while maintaining strict adherence to industry standards. Experience the future of cement testing with a device engineered for excellence.



# Vector Automatic Vicat

## VicatMaster Software



# TECHNICAL SPECIFICATION

Specification	Details
Model Options	Single, 6-station, and 12-station configurations
Standards Compliance	EN 196-3 and ASTM C191
Number of Stations	6 independent testing stations
Vicat Molds	6 independent molds
Penetration Depth Accuracy	0.1 mm
Needle Weight	300 g
Needle Drop Height	Adjustable via software
Penetration Step Time	Dynamic from previous drop from 1 to 999 minutes
Data Recording	Automatic logging of temperature and penetration depth
Software Features	Real-time monitoring and PDF report generation
Data Connectivity	USB interface
Testing Environment	Dry or underwater testing
Water Tank Features	Integrated with circulation and drainage ports
Safety Features	Safety sensors on all moving parts
Maintenance	Automatic needle cleaning system
Power Supply	220V 50Hz
Dimensions (L × W × H)	[To be specified]
Weight	[To be specified]
Support	Full software and technical service support