



HDT VICAT TESTER

QualiHDT-V1 Series

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The QualiHDT-V1 Series offers reliable and precise testing for Heat Deflection Temperature (HDT) and Vicat Softening Point, **making it a solid choice for analyzing the thermal properties of plastics and polymers.** Designed to meet international standards including **ISO 75, ISO 306, ASTM D1525, and ASTM D648**, this series supports both research and quality control needs.

Available in 2, 3, or 4-station models, it enables efficient testing workflows. The HDT test evaluates how a material holds up under mechanical stress at elevated temperatures, while the Vicat test measures the softening point by tracking when an indenter penetrates a standard depth under load. Together, these methods provide a comprehensive view of a material's heat resistance and thermal behavior.



FEATURES/ADVANTAGES

Precise Temperature Control

Offers adjustable heating rates from 3°C/h to 120°C/h with excellent accuracy, ensuring stable thermal conditions for a wide range of materials.

Wide Operating Range

Capable of testing from room temperature up to 300°C, making it suitable for both standard polymers and high-performance plastics.

User-Friendly Interface

Equipped with a responsive touchscreen that simplifies test setup, monitoring, and adjustments during operation.

Multiple Station Configurations

Available in 2, 3, or 4-station models, allowing users to test multiple samples at once and improve lab efficiency.

Real-Time Data Monitoring

Displays deflection and penetration curves as the test progresses, giving operators immediate insight into material behavior.

Standards Compliance

Fully meets ISO 75, ISO 306, ASTM D648, and ASTM D1525, ensuring reliable, accurate, and globally accepted test results.

Combined HDT & Vicat Testing

Performs both HDT and Vicat tests in one integrated system, saving space and time while boosting productivity.

Easy Data Export

Built-in USB port allows for fast and convenient export of test data for analysis, documentation, or recordkeeping.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Number of Stations	2, 3, or 4
Control Interface	Touchscreen
Temperature Range	RT - 300°C
Heating Rate	50°C/h (±0.5°C/6min), 120°C/h (±1.0°C/6min), Adjustable (3-120°C/h)
Deflection Range	-1.00 to 9.00mm
Measurement System	Digital gauge with communication interface
HDT Testing Standards	Methods A (1.8 MPa), B (0.45 MPa), and C (8.0 MPa)
Vicat Test Load	10N and 50N
Data Output	USB connectivity for PC integration



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Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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