



HDT VICAT TESTER

QualiHDT-V3 Series

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The QualiHDT-V3 is an **advanced Heat Deflection Temperature (HDT) and Vicat Softening Point Tester** built for **high-precision thermal testing of plastics and polymer materials**. Designed with six testing stations, it offers efficient, high-throughput performance ideal for research laboratories, quality control environments, and materials certification tasks.

During operation, each specimen is subjected to a constant load and heated at a standardized rate in a controlled oil bath, allowing the system to monitor both temperature and deformation in real time. When paired with the optional software package, users can generate real-time deformation vs. temperature graphs for detailed material evaluation.

The QualiHDT-V3 complies with key international standards, including **ISO 75**, **ISO 2507**, **ISO 306**, **ASTM D648**, and **ASTM D1525**, ensuring reliable results that meet global testing requirements.



FEATURES/ADVANTAGES

6 Testing Stations

Supports parallel testing of up to six specimens, improving throughput and lab efficiency.

Precision Testing with Minimal Variation

Maintains tight temperature control within $\pm 0.5^{\circ}\text{C}$, ensuring reliable and repeatable test results.

Advanced Digital Measurement

Features a high-accuracy digital micrometer with PC connectivity for precise deformation monitoring.

Automatic Specimen Frame Lifting

Speeds up test setup and completion by automating the lifting and lowering of specimen frames.

Minimal Expansion Coefficient

Built with a stable frame structure that reduces thermal expansion for consistent accuracy.

Automatic Smoke Exhaust System

Enhances lab safety and cleanliness by extracting fumes during high-temperature tests.

Independent Temperature Protection Circuit

Prevents overheating and safeguards internal electronics and components.

PC & Touchscreen Control

Offers an intuitive interface for controlling test parameters, viewing graphs, saving results, and generating reports.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Model	QualiHDT-V3
Control Mode	Touchscreen
Temperature Control Range	Room Temp – 300°C
Heating Rate	50°C/h (±0.5°C), 120°C/h (±1.0°C)
Number of Temperature Measurement Points	6
Number of Testing Stations	6
Specimen Frame Expansion Coefficient	<0.005mm/100°C
Deformation Measuring Device	Digital Microgauge
Deformation Range	-1.00mm to 9.00mm
Specimen Support Span	64mm, 100mm
Measurement Error of Max Deformation	0.005mm
Heating Medium	Methyl Silicone Oil
Cooling Method	Natural Cooling (>150°C) / Water or Natural Cooling (<150°C)



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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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