

Mikrosize Launches Next-Gen Precision Measuring and Testing Instruments

The new lineup from Mikrosize introduces advanced measurement accuracy and high-precision testing solutions designed to elevate industrial quality control and manufacturing efficiency worldwide.



Nanjing, Jiangsu Aug 7, 2026 ([Issuewire.com](https://www.issuewire.com)) - Mikrosize, a global innovator in industrial metrology and precision measurement technology, today officially announced the international market launch of its flagship optical measurement system: the [MVicky-1000T Touch Screen Micro Vickers Hardness Tester](#). Engineered to address the increasingly stringent quality control requirements of advanced manufacturing, the Mvicky-1000T integrates state-of-the-art optical sensing, dual-frequency laser interferometry, and automated multi-axis inspection software to set a new benchmark in industrial precision measurement.

As high-tech industries shift toward sub-micron manufacturing tolerances, modern components are becoming far more complex, compact, and difficult to inspect. Traditional tactile measurement methods and legacy optical systems frequently face bottlenecks—struggling to balance ultra-high accuracy with fast operational throughput. The Mvicky-1000T effectively eliminates this tradeoff. By combining sub-micron measuring accuracy with high-speed, non-contact data acquisition, the system provides quality assurance engineers with an unprecedented tool to streamline production workflows, eliminate measurement bottlenecks, and achieve 100% inline or near-line quality verification.

Engineered for High-Tech and Advanced Manufacturing Sectors

The versatile design of the Mvicky-1000T makes it an indispensable asset across a broad spectrum of high-precision industries, including:

- 1. Automotive Engineering: Precision inspection of powertrain components, electric vehicle motor shafts, and critical braking system geometries.*
- 2. Aerospace & Defense: High-accuracy evaluation of turbine blades, structural fasteners, and complex aerodynamic profiles.*
- 3. Semiconductor Processing: Non-destructive dimensional measurement of silicon wafers, micro-optoelectronic packages, and lead frames.*
- 4. Consumer & Precision Electronics: Detailed geometric analysis of ultra-miniature connectors, camera module housings, and internal structural brackets.*

Key Technical Features and Highlights of the Mvicky-1000T:

- 1. Sub-Micron Precision Optics & Laser Alignment:** Equipped with a high-resolution, distortion-free telecentric optical lens system and a frequency-stabilized laser source, the Mvicky-1000T guarantees exceptional measurement repeatability and accuracy, even when scanning intricate 3D geometric profiles.
- 2. Comprehensive Multi-Parameter Automated Testing:** Unlike conventional equipment that requires multiple manual setups, the Mvicky-1000T performs full-dimensional geometric checks, micro-surface roughness evaluations, concentricity tests, and multi-point contour scanning within a single automated testing cycle. This significantly reduces operator error and cuts inspection times by up to 60%.

3. Intelligent Data Analytics & Smart Factory Integration: Driven by Mikrosize's proprietary inspection software suite, the system features real-time Statistical Process Control (SPC) visualization, automated anomaly detection, and instant multi-format reporting. The software supports seamless API integration with smart factory Manufacturing Execution Systems (MES) and Enterprise Resource Planning (ERP) platforms, facilitating full digital traceability across the manufacturing lifecycle.

4. Rugged Industrial Construction & Thermal Compensation: Engineered to operate reliably in harsh shop-floor environments rather than solely in cleanroom laboratories, the Mvicky-1000T incorporates heavy-duty granite vibration-dampening structures and automated multi-sensor temperature compensation algorithms to ensure uncompromised accuracy despite ambient temperature fluctuations.

"In today's fast-paced industrial environment, precision alone is no longer enough—manufacturers require both extreme accuracy and high throughput to remain competitive," said the Chief Technology Officer at Mikrosize. "The Mvicky-1000T was engineered from the ground up to empower quality assurance teams with faster, more intelligent, and reliable inspection capabilities. By bridging the gap between high-precision optical measurement and automated shop-floor operations, we are helping our clients reduce defect rates, minimize scrap costs, and optimize overall production productivity."

Global Availability and Enterprise Support:

The MVicky-1000T Touch Screen Micro [Vickers Hardness Tester](#) is available for worldwide order starting today through direct sales from Mikrosize and its authorized international distributor network. Mikrosize offers tailored system configurations, customized optical fixtures, and comprehensive global technical support—including on-site installation, calibration, and engineering training services—to suit specific operational needs.

About Mikrosize:

Mikrosize is a specialized technology enterprise dedicated to the research, development, and global manufacturing of high-precision measuring and testing instruments. Driven by a commitment to technological innovation, quality excellence, and customer success, Mikrosize provides end-to-end industrial inspection solutions to world-leading companies in the automotive, aerospace, electronics, and precision machinery sectors.

For detailed product specifications, custom configuration inquiries, or global partnership opportunities, please visit [Mikrosize](#) or contact the international service team directly at mikrosize@mikrosize.com





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