



Vibrac Cap Inspector

Automated Cap Torque Testing System

Vibrac Cap Inspector – Automated Cap Torque Testing System

A high-precision automated cap torque testing system designed to eliminate operator variability and improve packaging quality control. Ideal for food, beverage, pharmaceutical, and consumer goods applications; it delivers consistent torque measurements, advanced data management, and safer, faster testing compared to manual desktop models.

Fast, accurate, and consistent cap torque testing

The Vibrac Cap Inspector is an advanced automated torque testing system engineered to remove the inaccuracies common in manual cap testing. Traditional benchtop methods often vary due to operator strength, technique, and external conditions—leading to inconsistent results and potential packaging failures. The Cap Inspector solves this by delivering repeatable, data-driven torque analysis for caps and closures of all kinds.

Backed by more than 60 years of engineering expertise, the system supports both destructive and non-destructive testing, complies with regulatory requirements across industries, and integrates seamlessly into modern production workflows.

Improved operator safety and long-term cost savings

Manual cap testing exposes operators to repetitive strain injuries and inconsistent results. Automating the process not only improves precision but also protects employee health, reduces workplace injury risks, and minimizes potential compensation claims. With accurate torque measurement, reduced waste, and more reliable product integrity, the Vibrac Cap Inspector ensures a safer and more efficient testing environment.

Technical Specification:

Testing Methods	Destructive & non-destructive torque testing
Supported Closures	Plastic-on-plastic (1776, 1802, 1810, 1815, 1816, 1817, 1820, 1823, 1824, 1842, 1843, 1845, 1881), ROPP aluminum-on-glass, Twist-off lug metal-on-glass
Connectivity	USB, Ethernet, optional wireless
Data Functions	Export, profile management, SPC integration

How the Vibrac Cap Inspector improves your testing process

- **Accurate and Repeatable Results:** Removes operator variability, delivering reliable torque measurements for all closure types.
- **Enhanced Data Management:** New export tools, USB/Ethernet connectivity, password protection, and optional wireless communication.
- **Safer Operation:** Automated torque testing helps prevent repetitive strain injuries and protects operators.
- **Designed for Modern Production:** Low-profile footprint, SmartScreen interface, simplified programming, and compatibility with external SPC systems.
- **Versatile Closure Compatibility:** Tests plastic, metal, and aluminum caps used by major beverage, pharmaceutical, and consumer brands.
- **Automated Testing Efficiency:** Reduces manual handling and streamlines workflows, ensuring faster, more consistent inspections on busy production lines.
- **Non-Destructive Testing Capability:** Allows torque evaluation without damaging the sample, preserving packaging integrity and reducing waste.



Why torque testing matters

Torque testing ensures that caps and closures are applied with the correct force—secure enough to prevent leaks and contamination, yet still user-friendly. It helps manufacturers maintain consistent sealing performance, comply with industry standards, and avoid costly packaging defects. Reliable torque control also supports smoother production runs and improves overall product quality across sectors like food, beverages, cosmetics, and pharmaceuticals.

Improved interface, connectivity, and usability

The latest generation includes major enhancements that streamline the entire testing process.

A Windows 11® SmartScreen interface ensures intuitive operation, while the redesigned display panel with real-time date and time improves traceability. Users benefit from adjustable screen tilt for visibility in low-light areas, a compact and low-profile footprint, and both USB and Ethernet connectivity for easy system integration.

The Vibrac Cap Inspector also offers upgraded profile management, new data export options, improved password-protectable access, and optional wireless connectivity—ensuring secure, flexible, and efficient testing across production environments.

Features & Benefits:

- Windows 11® SmartScreen interface for intuitive navigation
- Date and time display for improved traceability
- Adjustable screen tilt for better visibility
- Compact, low-profile design for labs and production areas
- USB and Ethernet ports for easy data integration
- Simplified test programming and profile management
- Data viewing and export options
- Password protection for controlled access
- Optional wireless connectivity
- Supports destructive and non-destructive testing
- Compatible with multiple cap types and custom tooling
- Automatic data transfer to third-party SPC software
- Reduces operator strain and improves safety
- Accurate, repeatable torque results with reduced operator influence
- Enhanced data handling through updated export tools and connectivity options
- Automated testing that minimizes manual handling and speeds up workflows
- Non-destructive torque checks that preserve samples and reduce waste
- Suitable for modern production lines with SPC compatibility and a small footprint

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Contact Details

web. www.industrialphysics.com

email. info@industrialphysics.com

