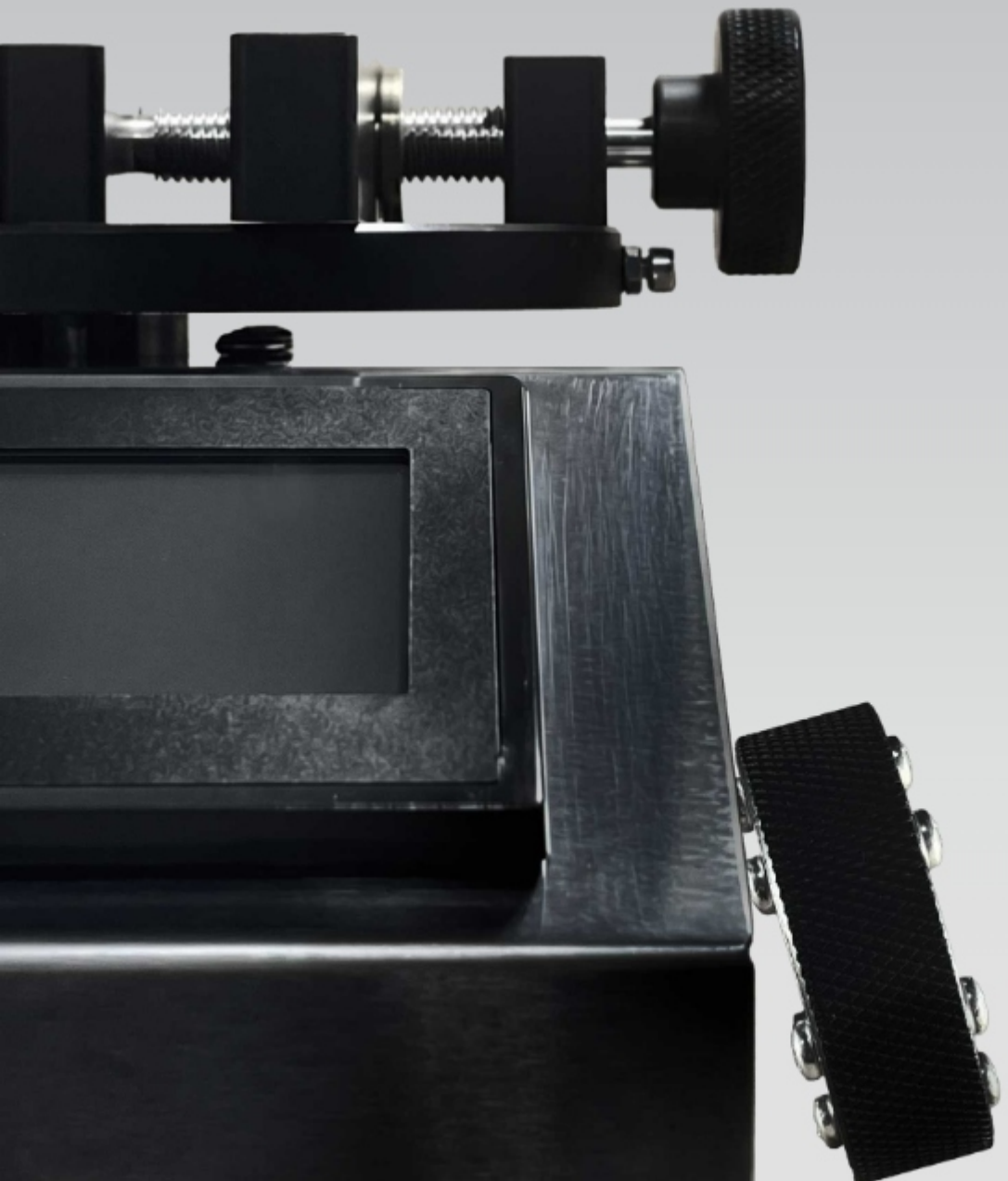
NAPCO

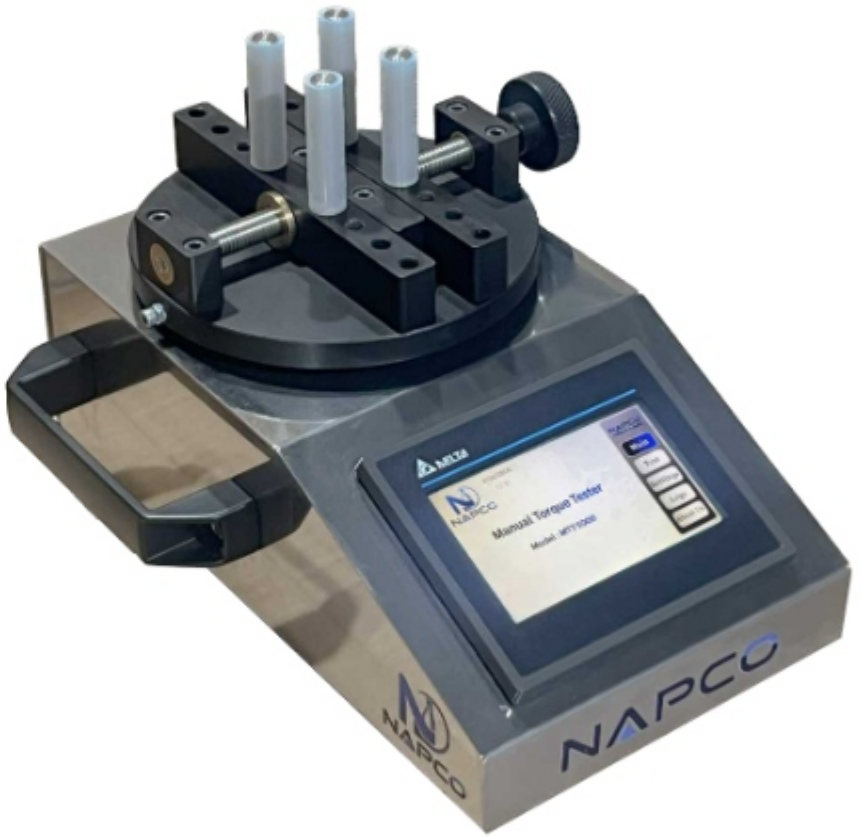
Digital Torque Tester

MCT-100



Sales Catalog

Explore the Unique Features of Our Digital Torque Tester

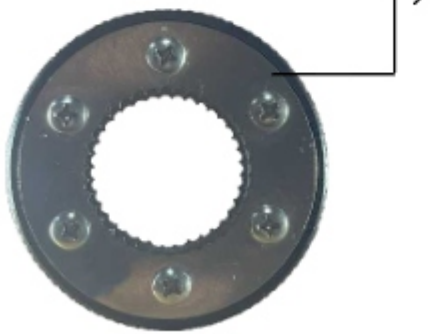


NAPCO's digital torque tester (torque meter) series provides a simple, accurate, and cost-effective solution for low-range torque measurement. These portable, ergonomic devices require minimal operator training, making them an ideal choice for quality control (QC) laboratories and industrial production lines.

A wide range of products across diverse industries — from everyday packaging to advanced automotive, aerospace, and medical components — relies on precise torque application for proper performance.

Regardless of product complexity, torque measurement is a critical factor in ensuring superior quality and production reliability.

At NAPCO, our torque testing solutions serve as a vital component of your quality management system, enabling seamless compliance with national and international standards as well as stringent packaging parameters.



Cap Gripper



NAPCO

Key Features

NAPCO Touchscreen Digital Torque Tester

A versatile, touchscreen-operated device engineered for precise measurement of applied torque and release torque across a wide range of industrial and packaging products. Featuring PC connectivity, this portable torque tester enables real-time graphical curve display and accurate analysis of critical data points—such as the bridge-breaking peak on tamper-evident safety caps. The NAPCO touchscreen torque tester provides a modern, high-precision, and cost-effective solution to elevate quality control standards in testing laboratories and production lines.

Discover NAPCO's advanced equipment online at www.Napcoqc.com

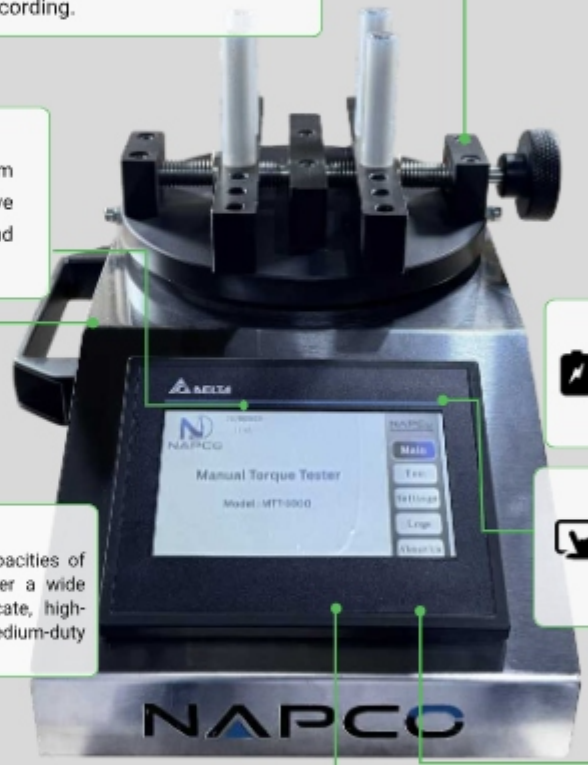


Dual-Direction Torque

Precise CW and CCW torque measurement with live and peak value recording.

Smart Overload Protection

Features an intelligent alarm alerting operators to excessive torque, preventing overload and safeguarding the load cell.



Optimized Battery System

Features a 24V 200mAh fast-charge battery, ensuring long continuous operation across labs and production lines.

4.3-Inch Touchscreen

4.3" Delta display with a smooth UI and modern icons, enabling quick, effortless test parameter setup directly from the touchscreen menu.

Wide Measurement Range

Available in 4 models with capacities of 1.5, 3, 6, and 10 N·m to cover a wide spectrum of tests, from delicate, high-precision components to medium-duty industrial applications.

Ergonomic & Portable Design

Lightweight construction with a dedicated carrying handle for effortless transport and on-the-go testing across laboratories and diverse production lines.

IP65

IP65 Industrial Protection

Rugged industrial housing and IP65-rated HMI panel. Fully sealed against dust ingress and resistant to direct water spray for reliable operation in harsh factory and production environments.

NAPCO

MCT TREND

Engineered for speed and efficiency, the NAPCO digital torque tester displays real-time values directly on its screen. For advanced analysis, seamlessly connect the device via Wi-Fi or serial port to our proprietary PC software. It transforms raw test data into intuitive charts, statistical trends, and professional reports—an essential tool designed specifically for QC managers.



Seamless Integration

Effortless connection via Wi-Fi or serial port

Real-time Graphing

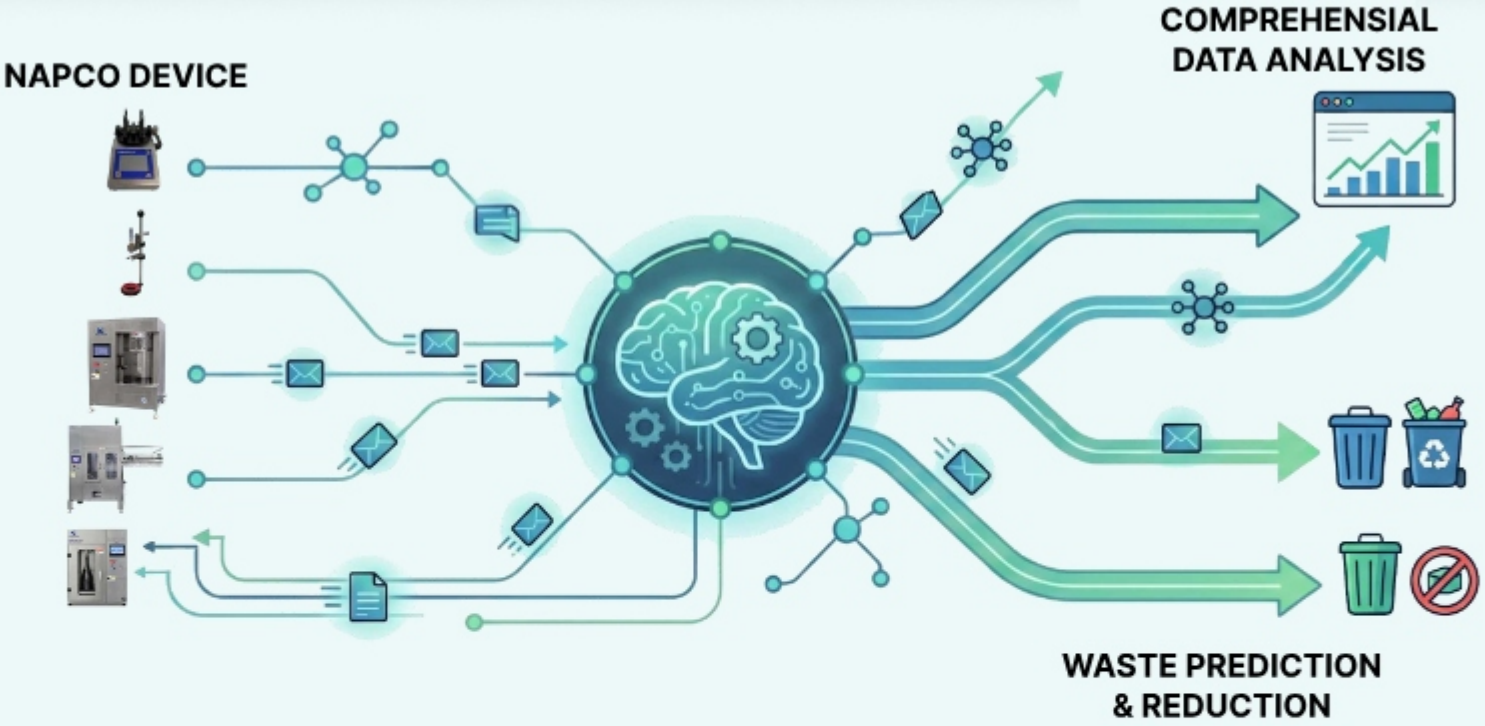
Live torque curves with first and max peak values

Easy Export

One-click data export to Excel, CSV, or PDF for quality documentation

NAPCO

AI-Powered Quality Control System



At NAPCO, modern QC goes beyond isolated test results. Our advanced instruments act as interconnected IoT nodes within the "NAPCO Smart Ecosystem." Powered by advanced AI, our platform networks all testing units to transform raw shop-floor data into predictive, actionable intelligence.

AI-Driven Predictive Analytics

Smart algorithms track your production trends over time to detect minor drifts in sealing torque or closure integrity, predicting machine wear and calibration shifts before mass defects occur.

Seamless IoT Connectivity

From leak testers to torque meters, all NAPCO devices connect via Wi-Fi or LAN to a centralized dashboard, giving plant managers full, real-time visibility across the entire production line.

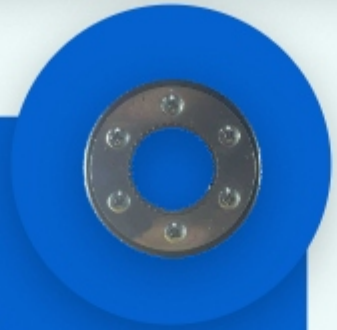
Smart Early Warning System

Prevent costly batch rejections. The NAPCO app sends instant push notifications to QC managers' smartphones at the first sign of a negative quality trend, preventing major financial losses.

Parameter	Specification
Product Code	MCT-100
Capacity & Range	0 to 10 N·m (100 kgf·cm / 88.5 lbf·in)
Display Resolution	0.002 N·m (0.02 kgf·cm / 0.01 lbf·in)
Load Accuracy	±0.2% F.S.
Overload Protection	Typically 150% of Full Scale (F.S.)
Sampling Rate	5,000 Hz (averaged to 80 Hz for peak capture)
Supported Units	N·m, lbf·in, kgf·cm
Container Diameter Range	10 to 190 mm
Dimensions (W×D×H)	203 × 278 × 127 mm
Net Weight	5.5 kg
Recording & Display	Live torque, first peak & max peak



Bottle Cap Chuck



This manual chuck provides a firm grip without cap deformation, ensuring uniform force application for precise peak torque capture on products such as carbonated beverages.

Calibration Kit



An essential companion for your device. It enables operators to verify accuracy directly on the production line, ensuring compliant and reliable peak torque recording prior to seal break.

Printer Connectivity



Direct, instant QC report printing from the digital torque tester for fast, error-free documentation of peak torque trends across production lines.

Test Control Software



Allows PC connectivity for real-time live curve tracking and automated test data logging during advanced quality analysis.

For over two decades, NAPCO has been a leading manufacturer of advanced quality control and precision instrumentation for the packaging and beverage industries. Driven by in-house engineering expertise and ongoing technical innovation, we have developed over 40 specialized laboratory and testing instruments for industrial lines. We proudly partner with and supply industry leaders, including Khoshgovar, Pepsi, Alis, Zamzam, and Super Cola. Looking ahead, our focus remains on continuous innovation to advance measurement standards in industrial production.



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