

# Closure Torque Analyzers

For Food, Beverage and Pharmaceutical Industries

## Torqo® 1600

With its large touchscreen HMI, the Torqo makes computerized torque testing simple, accurate and affordable. There are visual Pass/Fail indicators, numeric and graphical results and digital data output (RS232, USB, Ethernet) to satisfy every data transfer need.

Tooling is available for any threaded closures – including child-resistant, ROPP, light weight, pump dispenser closures. Customized to your specific application by adding any of the optional assemblies:

- + Beverage clamp
- + Universal/adjustable bottle clamping for quick actuation and faster cycle times
- + Top load (for Child-Resistant closures)
- + Gold Bottle (for quick accuracy verification)
- + Petaloid base, tower riser, universal chuck, and more!



Torqo & Accessories

## ST-120S

The corrosion resistant stainless steel head enclosure and anodized aluminum frame construction makes the ST-120S ideally suited for the most demanding applications, such as testing closure torque at Carbonated Soda Drink (CSD), juice, bleach bottling operations as well as cleanroom environments.

The unit is equipped with anti-bridging, anti-tie down anti-repeat dual actuation safety start switches, but for maximum operator safety, the ST-120S can be also equipped with a full machine guard. Other features include:

- + Automated bottle/cap gripping
- + Servo drive with programmable speed and torque ramp
- + Highly accurate strain gage-based transducer
- + Infinite chuck rotation
- + Quick changing tooling
- + Color touchscreen interface
- + Optional digital topload monitoring
- + Digital bottle clamping and cap gripping pressure monitoring
- + High resolution rotation encoder for application and release angle measurement



ST-120S & Accessories

## ST-H0X and ST-FT1

The **ST-H0X Series** of manual cap torque testers are designed to measure application and removal torque of bottle caps up to 50 lbFin [5.65 Nm]. Adjustable posts effectively grip a broad range of container shapes and sizes, while optional flat and adjustable jaws are available for unique container profiles. A rugged aluminum design, and simple, intuitive operation allow for use in laboratory and production environments.

Mesa Labs' **ST-FT1** is a universal handheld torque/force display that, when coupled with the Chuck calibrator adapter, can be used to verify/calibrate chuck capper heads. Cap adapters are easily replaceable to accommodate various chucks. Alternatively, the ST-FT can be used with serrated chuck adapters for the purpose of manual torque testing.



**ST-H0X and ST-FT1  
Manual Torque Testers**

## Gold Bottle

The **Gold Bottle** magnetic torque standard can be used to verify the accuracy and repeatability of manual or automatic torque analyzers. Since the break-away torque is produced by permanent magnets, the value will always be the same unless something has changed within the torque analyzer itself.

## Custom Tooling

We have the capability of accommodating the most unique and unusual container and cap combination, including odd-shaped containers, pump dispenser closers, non-serrated caps, child-resistant closures and several other non-typical applications. This versatility is what sets Mesa apart from the competition.

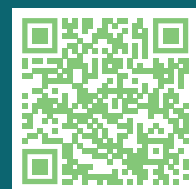
Here are just some of the test methods we can accommodate:

- + Closure application
- + Closure removal
- + Tamper evident band (TEB) break
- + Non-destructive release
- + Strip
- + ROPP (3 in 1: release, TEB break, strip)
- + Application/release angle monitoring
- + Container and closure thread fatigue
- + Incremental torque
- + Continuous top load monitoring
- + USP permeation



**Our design team will evaluate your specific needs and provide you with a durable, easy-to-use solution that will provide you with consistent and accurate results.**

**Challenge us with what challenges you in cap torque testing!**



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