Custom Tooling

We have the capability of accommodating the most unique and unusual container and cap combinations, including odd-shaped containers, pump dispenser closures, 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 tests we can accommodate:

- Closure Application
- **Closure Removal**
- Tamper Evident Band Break
- Non-destructive Release
- Strip
- (Roll on Pilfer Proof) ROPP
- Application/Release Angle monitoring

- Container & Closure Thread Fatigue
- Incremental Torque
- Bridge Torque
- 3 in 1 (Thread Break, TEB Break, Strip)
- Continuous Topload Monitoring
- USP Permeation

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

Challenge us with what challenges you in cap torgue testing!

Closure Torque Analyzers

for Food, Beverage and Pharmaceutical Industries



Scan for more information

torque.mesalabs.com torque@mesalabs.com 800.992.6372 or 303.987.8000













Torqo[®] 1600

With its large touchscreen HMI, the Torgo makes computerized torgue 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 caps and ROPP closures. Customize to your specific application by adding one of the optional assemblies:

- Beverage clamp (for 2l beverage bottles)
- Quick clamp vise (for fast test cycles)
- Topload (for Child-Resistant closures)
- Guard (for pressurized products)
- Gold Bottle (for guick accuracy verification)
- Petaloid base, Tower riser, Universal chuck, & more!







Manual Torque Testers

The **ST-HOX Series** of Manual Cap Torgue Testers are designed to measure application and removal torgue of bottle caps up to 50 IbFin [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 torgue/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.

market.

The **Gold Bottle** magnetic torque standard can be used to verify the accuracy and repeatability of manual or automatic torgue 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.

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 torgue 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
- Highly accurate strain gage based transducer
- Infinite chuck rotation
- Quick-change tooling
- Color touchscreen interface





ST-INLINE



The ST-Inline can be used in slower bottling operations, or for higher speed lines with a gating mechanism used to divert samples from the main line to the ST-Inline tester. Depending on programming and options the ST-Inline can measure the removal torgue values then return the bottles to the main line or automatically gate them to a reject lane.

The configurable audio and visual alarm, numeric or graphical display warns the line operator of torque issues.

With the optional topload or floating chucks, the ST-Inline can be also used for CR and TEB testing projects.

ST-HOX and ST-FT1

ST-INLINE

The ST-INLINE is the only fully-automated strain gage based, validation ready bottle cap torque tester / retorquer on the

TQGlobal.RevF