

### **OL94-2 FULLY AUTOMATIC ON-LINE TORQUE TESTER**

Due to the stringent requirements for efficiency, accuracy and ergonomics in today's packaging industry workplace, Sure Torque, Inc. has developed the On-Line Torque Tester. The "Econo" model OL94-2 continually and accurately checks random container closure samples up to 480 per hour without an operator. The OL94-2 has a unique torque design that allows the production and quality control operator to preset torque criteria directly in "inch-pounds," and each container entering the testing area will be evaluated based on this preset data.

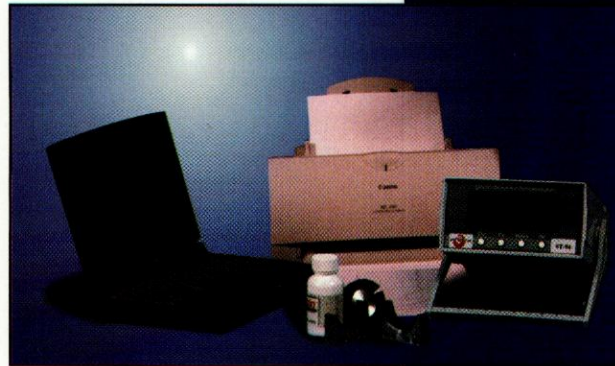
The OL94-2 is ergonomically designed to eliminate container handling, clamping, and hand testing, therefore avoiding the danger of CARPAL TUNNEL SYNDROME. In conjunction with the non-destructive test mode as described below, the system also performs measurements for actual release torque to determine if "overtightening" has occurred.

### **MINIMUM TORQUE EVALUATION**

The real advantage of on-line testing is that non-destructive torque tests are performed on container closures without interrupting production. Each container that enters the test area is examined for the minimum accepted torque as preset by the operator. The OL94-2 allows closures that meet the set criteria to continue down line, unharmed by the test and ready for the next packaging operation. Containers not meeting criteria are immediately directed off-line. Alternatively, they can be retightened to spec. This insures individual product integrity quickly and without damaging the seal of each tested container.

### **RELEASE AND OVER-TORQUE TESTING**

The OL94-2 also has the ability to test and display actual release torques. An alarm mode is preset by the operator when the unit is performing the over-torque tests, then each release torque is automatically compared to the maximum acceptable limit setting. A solid state output is provided for wiring to an "over-torque" alarm. This mode is ideal for setting capper criteria and assuring the end product's integrity.



**Packaging - Processing  
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1-847-683-7720

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**SURE TORQUE, INC.**



*"An Ergonomically Responsible Company"*

**QUALITY  
ASSURANCE  
INSTRUMENTATION**

**ERGONOMICALLY**

**SAFE**

**OL94-2**

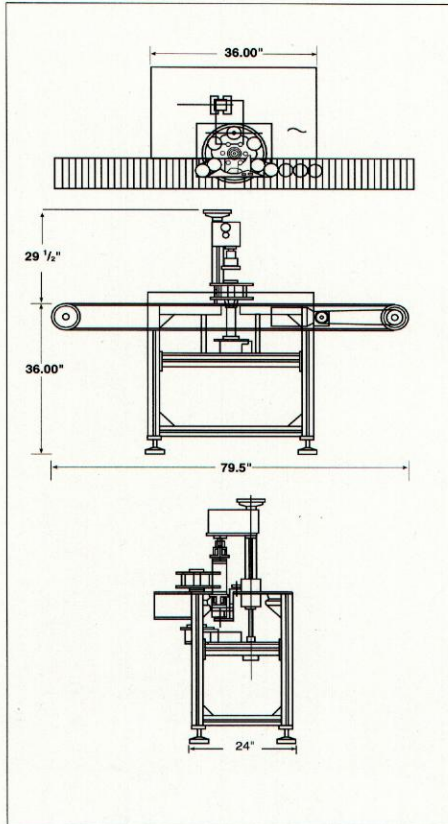
**FULLY AUTOMATIC CAP  
TORQUE TESTER**

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# SPECIFICATIONS, OPTIONS, FEATURES, ANCILLARY EQUIPMENT



## Specifications

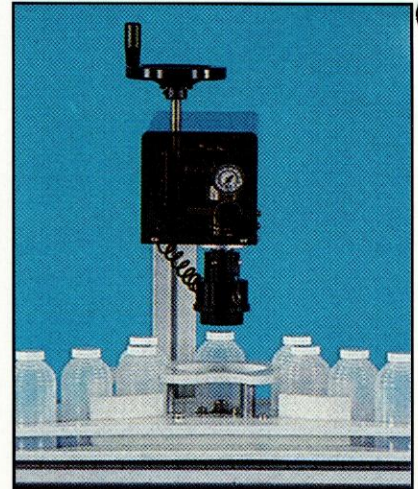
Measurement torque range:	0-100 in-ib (11.3Nm)
Applied torque range:	0-100 in-ib (11.3 Nm)
Temperature range:	32°-122° F (0-50°C)
Nominal sensitivity:	2m V/V
Measurement resolution:	+/- 0.1 in-lb
Accuracy (full scale):	+/- 0.2 in-lb
Transducer:	350 OHM Strain Gauge
Max load, safe (%):	150%
Calibration, Certifiable NIST Traceable Accuracy :	ASTM Calibration Test Kit
Display:	4/20 Character Message Center
Control:	4 Multifunction Push-buttons
Power:	110-220VAC, 47-63 Hz, max. 35VA
Air:	Min. 80 psi

## Features:

- NEMA 12 Housing & Electronic Enclosure
- Semi-Automatic Torque Testing & Tightening- NO HUMAN INTERVENTION
- Pneumatic Container Clamping & Cap Chucking
- No Ergonomic Repetitive Actions
- No Manual Container Clamping or Cap Removal
- 6' Conveyor
- Manual INPUT & EXIT Gates
- No Handwritten Results (Printer Port)
- Decreased Risk of Ergonomic Injury
- Accurate Determination of Actual Cap Removal & Applied Torque
- Electronic Torque Adjustment
- Fast Easy Changeovers
- State-of-the-Art Micro Electronics
- Factory Calibrated With Certifiable Test Weights with NIST Traceable Accuracy
- Fast Change Torque Setting
- Real Time Clock Interface
- Newton-Meters Conversion
- IBM Compatible Software Pkg for Data Acquisition
- Counter Balance System for Height Adjustment
- Automatic Test Cycle Counting
- Fatigue Test Mode
- Release for Dual Peak Readings
- Applied Torque Mode (for Applying Closures)
- RS-232 Serial Port
- RS-485 Serial Port
- Parallel Printer Port
- 4,000 Tests Memory
- Release Torque Test
- Double Release Torque Test
- Multiple Applied Torque Mode
- Release Test & Reapply Mode
- Apply & Then Release Test Mode
- Non-Destructive Release Test Mode
- Non-Destructive Release Test & Reapply Mode
- Over Torque Test Mode (Destructive)

## Benefits:

- Fully Automatic Testing
- Automatic Clamping
- Highly Accurate Transducer Technology
- Ergonomically Designed Configurations
- User Friendly Design
- Wide Range of Test Features Available
- Heavy Duty "Production" Designed Components
- Accuracy of 0.2 In-Lb Over Scale
- Resolution % +/- 0.1 In-Lb
- 0-100 In-Lb Range Standard
- Digital Display of Test Results-Peak and Hold
- Digital Display Torque Settings
- Digital Read-Out & Message Center
- Automatic Mode
- 180° Operation (Standard)



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## Options:

- NEMA 4 Electronic Enclosure
- ASTM Calibration Kit - Laboratory or Portable
- 360° Rotation
- 720° Rotation
- Top Load Feature
- Angular Degree of Rotation Measurement
- Cap Decay Time Mode
- Designed for Explosion Proof Environments
- Special Component Fixture
- Automatic Failed Test Reject Gate
- Automatic Infeed & Discharge Gates
- Special or CR Type Closures
- Additional Sets of Change Parts - Collet/Clamps
- Additional Sets of Change Parts per Container & Cap
- Custom Engineered Functions
- Table Top Printers
- Sure Torque Compatible Personal Computer
- Touch Screen w/Graphics
- Rotary Head Performance Tracking System
- Software: Angle vs Torque Measurement @ 1° Increment
- Software: Statistical Process Control Package
- Password Protection Installation
- Air Filter Assembly

## Ancillary equipment:

- Air Compressor (portable)
- Guarding w/Safety Interlock
- Emergency Stop Button



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