Torqo II+[™] Model 1600 Mesa's new *twist* on cap testing

The Torque product line has been providing accurate torque measurement readings for the past 50 years. The Torqo II+ system incorporates 15 years of factory floor proven technology, supplying customers with precision torque data to help improve the production as well as the packaging of the product. Mesa Torque systems have become the standard in the beverage and pharmaceutical industries, consistently providing accurate and reliable torque level readings to help companies manage quality control.

- Compact Size
- Constant Speed Drive
- Simple Touch Screen Programming
- Calibratable in the Field
- NIST Traceable Calibration
- Wide Operating Temperature Range
- Non-destructive Testing
- Full One-year Warranty
- USB Connectivity
- Ethernet Connectivity
- External Universal Power Supply
- LAN Connectivity
- RS-232 Port





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🖾 MesaLabs

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A variety of tests to meet every need

- <u>Removal Test</u> Designed to measure the torque required to open a threaded clo-sure.
- **Incremental Test** Designed to measure the torque required to open a threaded closure then reapply it to a position that will prevent leakage.
- **Bridge Test** Designed to measure the torque required to both open a threaded closure and then break the bridges of the tamper evident band.
- <u>Reverse Ratchet Test</u> Designed to measure the torque required to rotate a

System Features

The Main Menu displays all of the Torqo II programming categories.

MAIN MENU		
Select Test Profile	Calibration	
System Information	System Options	
Profile Manager		
Exit to Windows CE		

Timely Information

Save money with the early detection of problems.

TORDO 11 Date: 5/2/2007		~	VIEW / PRINT
Test Type: Ren Units: 1b-in Sample 1:	Samples: 11 11.60		
Sample 2: Sample 3: Sample 4:	11.15 11.05 10.60		Print
Sample 2: Sample 3: Sample 4: Sample 5: Sample 5: Sample 6: Sample 7: Sample 8:	11.40 11.15 11.25 11.70		Lot Number
Sample 9: Samplo 10: Sample 11:	11.70 9.85 10.35		Modify Report
	SUMMARY		
Low: Average: High: Std Dev:	9.85 11.07 11.70 0.56		Delete Data
Range:	1.85		Done

General Specifications

The torque ranges and accuracies displayed in the following table are all inclusive. Testing can be destructive or non-destructive, depending on the cap and bottle design.

The recent tion of all models is 0.1%.

Operating Environment

Temperature Range: 32 to 100°F (0 to 40°C)

Humidity Range: Up to 90% (non-condensing)

System Weight: 125 lbs (57 kg)

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child-resistant cap in its free state.

- **ROPP Test** Designed to measure the torque required to open, break the bridges and then strip the threads on a Roll-On Pilfer Proof cap.
- **<u>Close Test</u>** Designed to apply a cap to an exact torque, thus enabling the Torqo II+ to be used as a precision capper.
- **Strip Test** Designed to simply see what the torque specification would be required to drive the cap in a clockwise direction in order to break the band and remove the cap.

Select a Test Type

Simply touch a button to select a test.

Select Test Type			
Removal	Reverse Ratchet		
Removal and Incremental	Close		
Removal and Bridge	Strip		
ROPP (Roll On Pilfer Proof)	Copy Profile		
Ca	ncel		

Using the Gold Bottle

A quick and easy calibration check.



System Options

Select those test features that best suit the application.

REMOVAL TEST SETUP				
Removal Options			Re-Application Options	
Low Limit	0.00	lb-in	Application Torque 10.00 Ib-in	
High Limit	40.00	Ib-in	Note:	
Speed	1.0	rpm	If Extra Travel greater than 0,	
Peak Detect	5	deg	then set Application Torque	
Minimum Torque	2.0	9/0	equal to 0.	
Extra Travel	0.0	deg	Header / Comment	
	ОК		CANCEL	

Calibration in the Field

Simply observe the pictures and follow the on screen, step-by-step procedure.



Model No.	Max Torque (lb/in)	Accuracy +/- %FS
1600-05	5	0.125
1600-10	10	0.125
1600-20	20	0.125
1600-30	30	0.5
1600-40	40	0.5
1600-50	50	0.5
1600-100	100	0.5
1600-200	200	0.5

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