



Operating Environment

Temperature Range: 41°F to 104°F (5°C to 40°C)

Humidity Range: Up to 90% non-condensing

Physical Characteristics

Dimensions: 21 W x 18½ D x 30½ H in (53 x 47 x 77 cm)

Weight: 75 lbs (34 kg)

Power Requirements

Input Power: 120 VAC 60 Hz (220 VAC 50 Hz)

Drive Specifications

Speed Range: 1 to 5 RPM

Direction: Bi-Directional

Measurement Specifications

Model No.	Max. Torque lb-in (Nm)	Accuracy +/- % FS	Resolution lb-in (Nm)
2100S-10	10 (1.13)	0.5	0.01 (0.001)
2100S-20	20 (2.26)	0.5	0.02 (0.002)
2100S-30	30 (3.39)	0.5	0.03 (0.003)
2100S-40	40 (4.51)	0.5	0.04 (0.005)
2100S-50	50 (5.65)	0.5	0.05 (0.006)
2100S-70	70 (7.90)	0.5	0.07 (0.008)
2100H-100	100 (11.30)	0.5	0.10 (0.011)
2100H-200	200 (22.60)	0.5	0.20 (0.023)

*Model 2100L is available in LOW TORQUE versions 10 to 100 oz-in (7.1 to 70.6 Ncm)

**System should be sized to operate between 25% and 75% of system torque rating.

Vibrac

PRECISION TEST SYSTEMS

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Vibrac

The World's Most Trusted Name in Precision Test Systems

Cap Inspector

Torque Testing of Bottle Caps And Threaded Closures



Model 2100 Series Cap Inspector System

Vibrac - 50 Years of Torque

As the industry leader in the precision motion test equipment market, Vibrac continues to develop advanced solutions to industrial testing problems. Over 50 years of experience in the field of torque measurement is reflected in every Vibrac system.

The new **Model 2100 Cap Inspector** is born from a long line of market leading cap test systems. The Cap Inspector offers a range of improvements over the traditional Vibrac systems used and appreciated all over the world. Improvements include:

- New Windows 7® smart screen operator interface.
- New front panel with Date and Time display.
- Screen tilt adjustment for easy viewing and touching.
- Low profile and smaller footprint design.
- USB port and Ethernet connectivity.
- Improved programming and profile management.
- New options for viewing, managing and exporting data.
- New password security options.

Programmable Tests for All Types of Caps

Removal Torque – A non-destructive test, this is used to determine the peak removal torque of a cap. The removal torque is measured and displayed, and then the cap is reapplied to a specific value.

Incremental Torque - This test is used to measure the removal torque of a cap and then re-apply the cap to a specified position beyond the original starting point. This test is designed to be a non-destructive test, and prevent leaking problems by reapplying the cap to a more secure position.

Bridge Torque - This test determines the rotational force needed to remove a cap and break the bridges that join the cap to the tamper-evident band on plastic and aluminum caps.

Reverse Ratchet Torque - This test measures the torque required to rotate a child-resistant type cap without engaging the child-resistant mechanism (i.e., no vertical down force).

ROPP – This procedure is for testing Roll-On Pilfer Proof type caps. This test method measures the torque required to break the tamper-evident band bridges, and strip threads on ROPP caps.

Strip Test - This test is designed to measure the torque required to strip the threads of any cap.

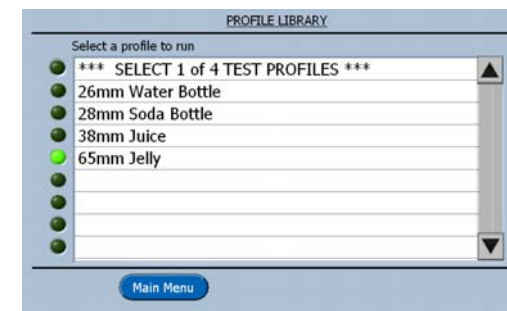


Easy Clamp Vise



Calibration Kit and Weights

User-Friendly Testing



Profile Library

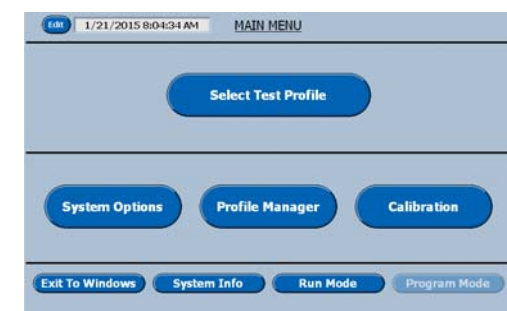


Start Test Screen

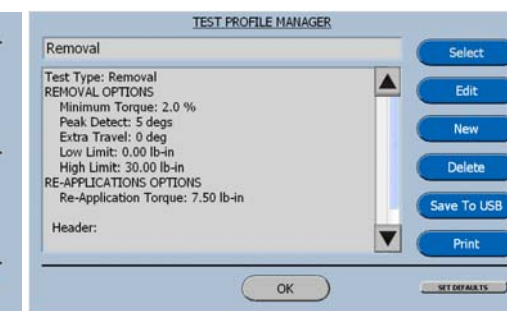


End of Test Screen

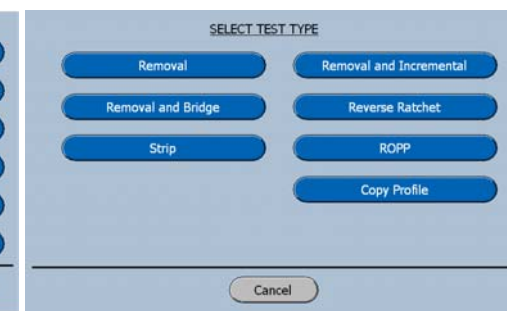
Creating a Test Profile



Main Menu

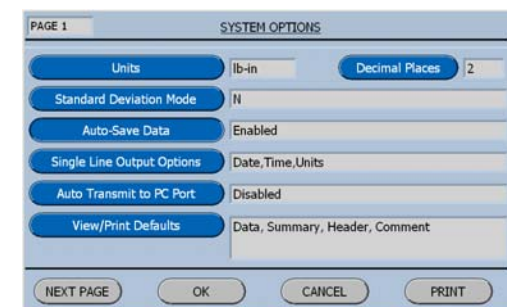


Test Profile Manager

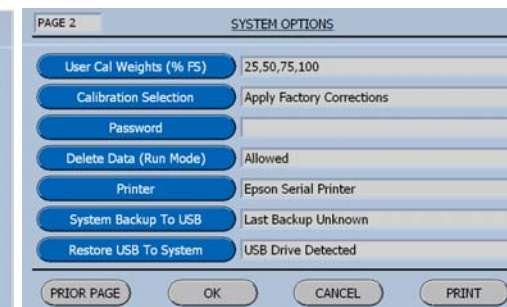


Select Test Type

System Options



System Options 1



System Options 2

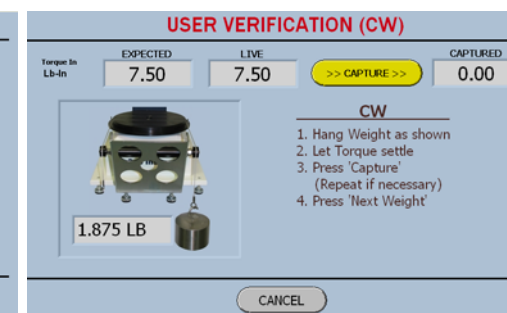


Test Setup

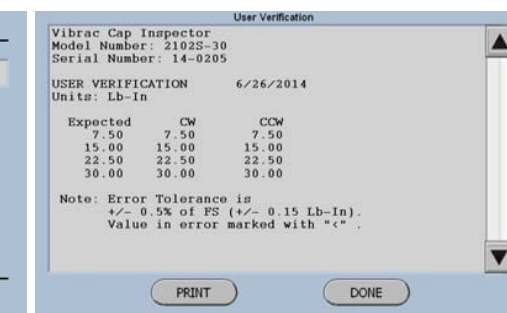
Calibration and Verification



Calibration Standard Bottle



User Verification



Verification Results