Seal-Surface Coating Measurement System

Coating Measurement System for the Seal Surface of Glass Containers

- Measure the amount and consistency of coating applied to seal surface (rim)
- Verify proper coating levels for induction seal applications
- Identify coating application problems

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The Seal-Surface Coating Measurement System (SCMSystem) is a high-precision testing instrument designed to quickly and accurately identify the amount of metallic coating applied to the rim or seal surface of a glass container. This system is ideal for verifying proper coating levels for induction seal applications.

**Features:**

- Adjustable bottle mounting system for optimal measurement of seal surface
- Rotary support table permits measurement of seal surface over 360 deg. without repositioning
- Automatic head positioning for peak measurement in vertical and horizontal axis
- Touch screen operation
- Easy-to-understand graphic representation of test results
- Ability to measure tin or titanium dioxide coatings
- Automated fluid pump
- Corrosion-resistant construction

**Technology**
The Seal-Surface Coating Measurement System utilizes visible light technology in combination with a coupling media to measure the thickness of metallic coating materials on a glass bottle. A controlled beam of visible light is directed onto the top sealing surface. The amount of light that is reflected from the surface is then compared to a calibrated thickness standard. The system uses this data to determine the thickness of the tin or titanium dioxide coating, which is expressed in coating thickness units (CTUs).

**Color-coded Test Results**
Test data is presented in a graphic and numeric form enabling operators to quickly verify the presence and/or the thickness of coatings. Test data presented in graphic format permits operators to quickly verify the presence and/or thickness of coatings. Test results are color-coded, providing operators with immediate feedback on whether the area measured meets or exceeds preset limits.

**Repeatable and Reproducible Test Results**
The Seal-Surface Coating Measurement System design facilitates highly repeatable and reproducible test results due to several key features:

1) Dual-axis, motorized measurement head - automatically scans the surface until it finds the optimal location for coating measurement, eliminating errors induced by operator placement and ensuring only peak readings are taken.

2) A rigid, rotary mounting fixture holds bottles firmly in place during the testing process and permits 360 degree rotation for unlimited measurement over the entire seal surface area.

**Easy to Use Operator Interface**
The Seal-Surface Coating Measurement System incorporates an operator interface with touch screen technology. All operational and test configuration requirements are performed through a single location with a minimum number of operations. Test setup is easy and can be accomplished in minutes.