

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

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.

Agr reserves the right to alter design and/or specifications without notice.