



NewsScope

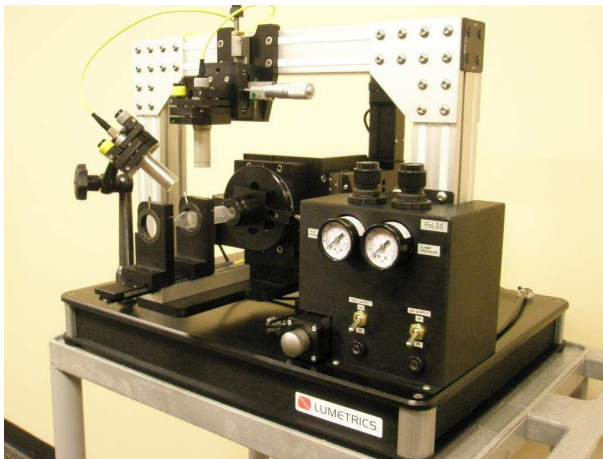
The newsletter of Lumetrics, Inc., makers of OptiGauge™

New product launch at MD&M West!

Lumetrics will be unveiling two exciting measurement products on February 10–12 at the MD&M West Show, Anaheim, California. Continuing in its mission to bring the best dimensional measurement techniques to the medical industry, Lumetrics will use Booth 2086 as the stage for demonstrating their new Rotational Linear Scanning System and the Refractive Index Calculation System, as well as a number of new fixtures and features to improve your measurement of medical tubing, balloons, film, and more.

Tools for balloons, tubing, & more:

One of our most exciting developments is the Rotational Linear Scanning System (RoLSS). RoLSS is the next generation of inspection equipment dedicated to those hard to measure products like balloons, silicone tubing, and any cylindrical object where you need accurate and repeatable measurements.

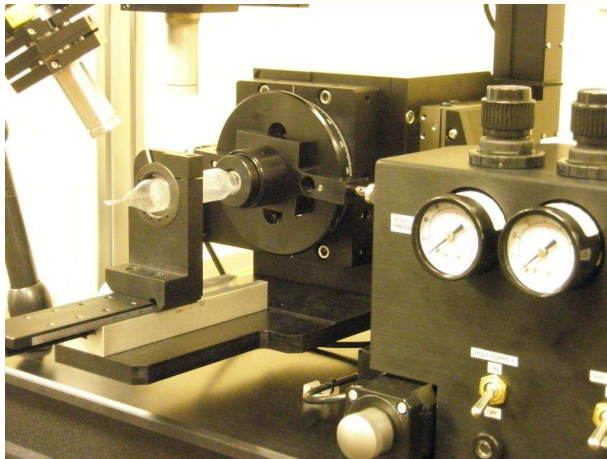


RoLSS provides the user with the ability to not only measure wall thickness but also ID, OD, Ovality, concentricity, coatings, and more. RoLSS provides air pressure so that as a balloon is inflated and rotated, a user can study thickness variations across the whole balloon. With the optional articulated second probe, cone areas can be measured and anomalies identified. In addition to rotational movement RoLSS provides a linear stage to allow scanning along the length of a balloon. The system allows any balloon shape or size to be measured and mapped with our easy to use software interface.

RoLSS takes the guess work out of testing simple or complex balloon designs. When you can easily map a complete balloon, modifications to designs and processes become possible. Safety is ensured and productivity is enhanced when product attributes are understood this well. With the data derived from RoLSS you can achieve higher quality products and understand and refine your processes.

The system provides an alternative to pin gauges and razor blades, and replaces the common but imprecise, double-wall thickness measurement. Now exact measurements can be taken and relationships between critical features can be identified and corrected, such as concentricity,

roundness, thinning, etc. The variability associated with the old imprecise manual methods can now be eliminated.



In addition to balloons, RoLSS is ideal for all tubing and other cylindrical items no matter what their size or material. Tubes are held with an adjustable air pressure collet that fits a range of samples. This quick change collet provides a way to easily position samples for measurement.

RoLSS comes complete with an intuitive interface that allows complete scanning around or along an object, a step movement to various locations for measurement and a step and scan capability that allows scanning at specific critical locations on the part. Data is available real-time on the display in numeric graphical form and can

be downloaded to a file or exported to an external database for further analysis. Future enhancements will provide additional displays, graphics, and recipe control.

Call Gary, Vince or Kyle to find out more information on this tremendous productivity tool.

Table-top Index of Refraction measurement:



One of the most common questions we've received is "how accurate is Lumetrics' OptiGauge system?" The system itself has a published accuracy, of 0.1 micron. This accuracy relates to the optical thickness of an object. Its physical thickness is dependent on knowing the Index of Refraction (IR) of the component material(s).

Through considerable research we've come up with a method and device that gives our customers the ability to measure accurate IR values to the third and fourth decimal point in

seconds. The system allows our customers to measure single and multiple layer materials and calculates IR with very small samples. This device even allows the IR measurement of liquids.

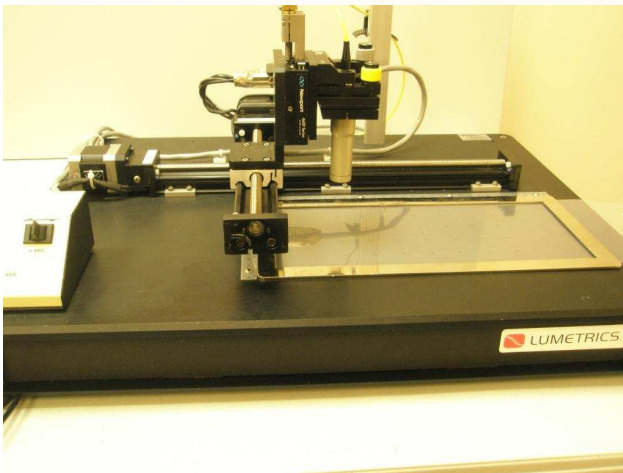
The Refractive Index Calculation System is a cost effective way to determine the IR of materials from batch to batch or vendor to vendor. A simple user interface provides calibration of the device and then measurement of both the thickness and IR of the material in one simple step.

Make sure you call and talk to Marshall or Rylan about this simple yet effective device

X/Y Scanning for films, flow cells, test strips:

One of the most useful tools for any user of precision medical film and packaging is the OptiGauge with an automated film scanning system. In today's age of precision test strips, transdermal patches, fluid bags, and complex medical packaging it's important to be able to accurately measure your single and multi-layer films.

Lumetrics' OptiGauge provides an ideal alternative to the many nuclear gauges that were the standard of measurement starting in the 1960s. The OptiGauge is a superior alternative to the expensive to maintain, highly averaged, inherently inaccurate nuclear gauge. The OptiGauge provides not only an extremely accurate measurement but with a spot size of 40 microns or less, can provide you with critical data for mapping thicknesses of coatings on many surfaces including films, gels, acrylic, silicon, and metals.



The automated film scanning system provides both manual and automated scanning of any flat material. A large 5" by 12" base area provides an ideal area for scanning of most components. Additionally Lumetrics provides custom programs that measure multiple films, provide interactive dialogs, calculate hundreds of points on a sample and then determine a pass/fail, based on customer determined and settable criteria.

The automated film scanning system is being used by customers today to verify and validate newer and more complex multi-layer films and packaging that can't be reliably evaluated with yesterday's cut and measure technology. Snap gauges and other manual methods are inaccurate and prone to variability. Operator to operator error, and other problems associated with manual measurements can be eliminated with the use of the OptiGauge and an automated film measurement system.

Steve or Gary can tell you more about this fully featured scanning system.

New website on its way:

Lumetrics will have a new web site up and running within the next few weeks. In addition to easier access to more technical papers, presentations, and applications notes, we will be sponsoring a new MEASUREMENT FORUM dedicated to finding answers to your challenging measurement problems. This site will be open to all measurement professionals and will help them find resources, connect with other like-minded people, and offer suggestions on how to help move metrology forward into the 21st century. Many medical companies use measurement instruments that are hundreds of years old; razor blades, pin gauges, and micrometers. Lumetrics provides tools that catch up with today's medical device technology.

Look for our new measurement forum coming soon.

Lumetrics is a specialty measurement company, offering solutions especially tailored to the medical, ophthalmic, specialty glass, and film industries. Lumetrics' OptiGauge, utilizing Super Luminescent Technology, provides rapid, non-contact, precision thickness and geometric measurements for many materials and products such as medical balloons, catheters, contact lenses, multilayer films, coatings, glass, and more. Lumetrics provides total solutions to our customers' for Research & Development, Quality Assurance, and in-process manufacturing controls.

For additional information on any of these topics please contact Lumetrics at sales@Lumetrics.com or Gary German (ggerman@Lumetrics.com) at 585-214-2455 x 121 or cell 585-233-3618 or Steve Heveron-Smith (sheveron-smith@Lumetrics.com) at 585-214-2455 x 102 or cell 585-734-3394