JSR Ultrasonics
A Division of Imaginant

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QUARTERLY NEWSLETTER

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µPELT Tips

- **When exporting files to the µPELT gauge, always set the baud rate on the µPELT, as well as in PELT Explorer, to 9600.**
- **Ensure that wear-caps have no scratches or tears that might reduce waveform quality.**
- **Use the SplitGain feature to lower the amplitude of the initial echo and increase the remaining echoes.**
- **When marking waveforms, use your calibration guidewaves to look for echo shapes.**
- **Remember to delete any unnecessary wave files from the µPELT frequently, as the gauge will only store up to 1000 measurement points.**
- **Remove the sensor and cable from your gauge before walking though the plant to avoid damaging your cable or connector.**
- **Routinely check your calibration certificates expiration dates.**
- **Contact your service rep with questions or concerns.**

µP301 PELT Multi-Layer Thickness Gauge

JSR Ultrasonics has recently introduced a lower cost µPELT gauge for customers measuring 3 layers or less. The µP301 PELT is a high resolution, ultrasonic coating thickness measurement system. The system allows individual measurement of each layer in a multi-layer coating system with one capture. This handheld gauge uses state-of-the-art technology resulting in unparalleled precision and accuracy.

This advanced technology can be used to effectively monitor coating uniformity and to verify that applied coatings are within specification. Since measurements are quick and easy, the number of parts measured can be increased, as well as the number of measurement locations per part . An increase in the part-to-production ratio can result in dramatic improvements in process control.

FEATURES:

- Measures up to 3 layers simultaneously.
- Reports individual thickness and total thickness.
- Measures coatings on composites, metal, wood and rubber.
- Measures most coating types from composite metals to waterborne paints.
- Direct, non-destructive measurements eliminate the need for destructive analysis or specially prepared test samples.

Detroit µPELT Training

On November 29th JSR will hold its first µPELT Gauge training class in the Metro Detroit area. This is a great opportunity for operators to be trained directly by JSR and for engineers who would like to use the gauge for more than just QC. On-site training services will still be offered, however, this opportunity allows the attendee to focus on the class without the typical interruptions of a production environment. The class size will be limited to allow for individual one-on-one training. For more details about the class download the flyer at :

www.imaginant.com/pelt/training.pdf

About Imaginant

In late 2004, JSR Ultrasonics became JSR Ultrasonics, A Division of Imaginant. Our corporate name, Imaginant, meaning imagining or conceiving, was selected because it better reflects our organization's mission to develop innovative products for test, measurement and imaging. As we approach our 20th anniversary, Imaginant's portfolio is comprised of three main product lines: Digital Cameras and Imaging, Pulser/Receivers and Coating Thickness Systems. These product lines provide our organization with a balanced portfolio and secure our place as a leader in the global market.

Robotic PELT Multi-Layer Thickness Gauge

Automated Coating Thickness Measurement System

The Robotic PELT is an automated coating thickness measurement system. This advanced technology dramatically increases the quantity of parts or vehicles that can be measured on a daily basis.

This autonomous system builds upon the technology found in the Legacy PELT and µPELT Gauges. Up to 5 individual layers can be measured at each location.

A system comprised of 2 robots each with single sensors can gauge 50 locations in approximately 6 minutes. The system can sample film build data for virtually every color, body style and booth combination within hours.

The quantity of data provided by the system minimizes speculation about the paint process output. Rapid feedback and additional data can allow your facility to achieve and maintain cost control and process improvement goals.

The Robotic PELT system can be provided with non-contact positioning sensors, therefore it is only necessary to rough program the robot measurement positions. Final angle and distance of the PELT sensor from the body surface is determined automatically by the positioning hardware for each measurement location. This greatly simplifies path programming and minimizes touch up and maintenance requirements.

The Robotic PELT system may also be equipped with color and appearance instruments provided by other manufacturers. Therefore, a single cell can provide online data for multi-layer thickness, color and appearance. Combining multiple instruments enhances the value of the Robotic PELT system and has added benefit for the quality control of paint application equipment.

European PELT Representative

JSR Ultrasonics is proud to introduce Laurent Malfaire. Laurent joined the PELT team in December of 2004 and is available for demonstrations, training and PELT technical support throughout Europe.

He studied Physics at the Universities of Brussels and Louvain-la-Neuve (Belgium) specializing in biomedical physics and lasers. He followed up with studies in international business.

Laurent speaks French (mother tongue), English, Dutch and German. His hobbies include, motorcycles, martial arts (Aikido) and a variety of sports such as squash and swimming. He is currently living near Brussels, Belgium.

Please contact Laurent with your needs.

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WE'D LIKE TO HEAR FROM YOU

Please e-mail us at: LB@JSRUltrasonics.com with any comments or suggestions about our newsletter. We would also like to hear about any best practice suggestions for the PELT equipment. Your idea may be highlighted in our next issue.

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