

Quality, Process & Tension Control Roundup

ernet connection

8. All measurements guaranteed within 10 seconds—saves measurement time on production floor
9. Made in the USA

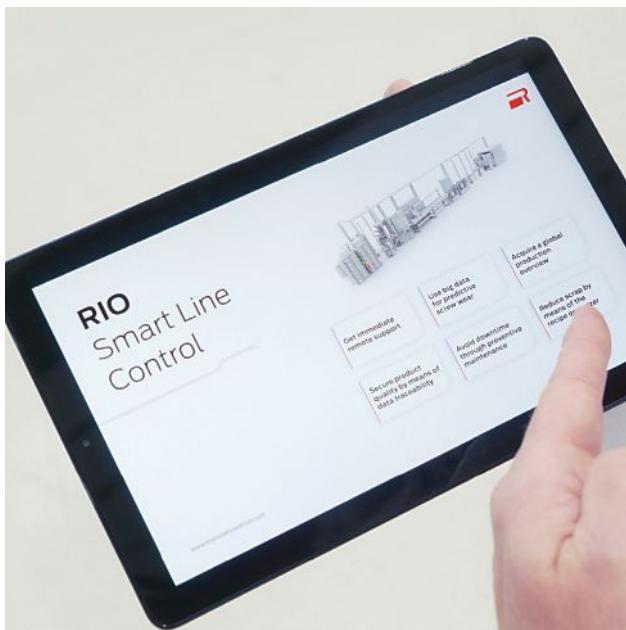
"For additional technical information, visit the company's website." www.anglesystems.com

This is How You Get the Best Out of Your Existing Line Equipment

Anna Jansky, Marketing Coordinator, **Rosendahl Nextrom GmbH**, Pischelsdorf, Austria, says, "These times—even though they are challenging—can help to fundamentally restructure and to keep the focus on doing the best with what we have at our disposal. It is natural to always strive for better and faster solutions. Instead of major investments, though, one may currently search for a way to improve existing production processes.

The RIO line control system from Rosendahl Nextrom has been partnered with the company's production equipment for many decades now. They evolved and grew together to become a powerful team. The system not only operates the production equipment, but it also automatically learns the production processes and offers many improvements—a smart system.

"How about automatically optimizing your production recipe to keep the scrap rate low, for instance? Or how about assuring your product quality by means of data traceability? These are just a few examples of how their RIO smart line control can help you collect, analyze, and optimize your production data. Using



this information, you can increase your automation level, production efficiency and overall performance. It can simply help you to get the best out of your existing production equipment.

"Rosendahl Nextrom can show you in a few examples of what benefits RIO offers your business. Just contact the firm and the company will be happy to answer your questions." www.rosendahlnextrom.com

Quality Control for Copper Alloys

Jean R. Gould, Marketing Manager, **Magnetic Analysis Corp.**, Elmsford, NY, USA, says, "Magnetic Analysis Corp. offers a range of eddy current test instruments and systems for detecting surface and sub-surface defects in copper and copper alloy wire and bar. This versatile and generally cost-effective technology is being used in a broad range of wire and rod applications.

"A USA wire alloy producer of wire for components and conductors has been successfully using MultiMac® single-channel eddy current testers for several years to inspect its full line of wire product including zirconium copper and beryllium copper alloys ranging from 0.033" to 0.25" (0.838 to 6.35 mm) diameter. The test is part of the finish inspection conducted at



speeds up to 200 fpm. Typical defects being detected include surface defects in plating and sub-surface anomalies in bonding, and inclusions in multiple layers. A noise cancelling test coil, which minimizes noise from mechanical vibration in the wire, provides improved performance.

"In another application, MultiMac eddy current testers will be used to inspect continuous copper wire rod, used as feedstock in the production of wire copper strips. The rods range from 0.5 to 3.5 mm (0.01968" to

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0.13778"), and the test is looking for external defects such as scratches, dents and gaps, at speeds to 20 mps. A specially designed Wire Tracker test coil platform will be used to provide stability in feeding the bar.

"At a continuous cast copper rod mill in China, a MultiMac eddy current tester is installed just before the coiler, but after the rod is produced and drawn down to smaller diameters. The tester assesses grade, using MAC's Grading Software, and detects magnetic inclusions, using a MID test coil. The Grading Software provides a convenient, efficient means of automatically categorizing the quality level of individual segments and entire coils of wire, rod, and bar during production. The user can customize the defect types, each based on a specific threshold gate, specify the maximum number of defects for each grade level and configure reports. Surface defects and inclusions are detected and categorized. In this instance, rod graded higher is drawn down to even smaller diameters. Lower grades are not drawn down as much to avoid problems with breakage in the wire which could end up causing a disruptive downtime to rethread the drawing machine." www.mac-ndt.com

For QC in Machine Refurbishing, On-Line Monitoring & Data Acquisition are Key

Erik Macs, Director of Sales, **Wire and Plastic Machinery Corporation**, Bristol, CT, USA, says, "Wire and Plastic Machinery Corporation, with extensive warehouses in MA, RI, NC and TX is the largest used machinery dealer in the world. In the realm of retrofitting used drawing, stranding, extrusion and rewind/packaging lines, it is imperative to be able to incorporate and integrate the latest technological advances available for quality, process and tension control. It is also prudent to know when to keep it simple.

"For quality control, on-line monitoring and data acquisition are the key features. Typically in the refurbishment of a complete operating line, the options of resurrecting an existing monitoring system are usually limited as modern acquisition systems can provide vastly superior amounts of information and more in tune with current networking features. Control systems need to take into account the needs of all the personnel involved with the process - quality personnel, process engineers, line operators and

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