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News for the Plastics and Rubber Industry

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New Eriez® White Paper for the Tire Industry Spotlights Balanced Coil Metal Detectors



Erie, PA—A new white paper from Eriez®, authored by Metal Detection Product Manager Ray Spurgeon, provides a comprehensive overview of [balanced coil metal detectors](#) with an emphasis on how this technology positively impacts the tire industry by protecting calender rolls from tramp metal damage. Spurgeon presented his paper, “Damaged Calender Rolls: A Pressing Problem,” at the [2018 International Tire Exhibition & Conference](#) (ITEC), which took place September 11-13 in Akron, Ohio.

The white paper explains that, despite careful attention and sound manufacturing practices, tramp metal often finds its way into rubber strips prior to calendaring. Spurgeon says this can cause tens of thousands of dollars in downtime for surface refinishing or the expense to replace the rolls. The white paper offers a thorough examination of [balanced coil metal detectors](#) as an effective tool for safeguarding against this destructive tramp metal.

“Damaged Calender Rolls: A Pressing Problem,” focuses specifically on the design, principle of operation and installation requirements for [balanced coil metal detectors](#). The paper includes product photos, illustrations and schematics as well as a section addressing frequently asked questions about metal detectors.

As explained in the white paper, a metal detector will reduce costly downtime, but careful attention to the conveyor design and controlling ambient electrical noise is critical to its success. Further, the sensitivity of a [metal detector](#) may be influenced by the product constituents, specifically if it has a high carbon black content. A review of the proposed installation by a qualified metal detector manufacturer’s representative is essential to ensure the right metal detector model and size is selected for the application.

Spurgeon has served in various capacities within Eriez inspection divisions since 1995. During his tenure, he has published numerous white papers on foreign object detection. In his current role at Eriez, Spurgeon oversees all aspects of the company’s metal detection division.

For more information about Eriez state-of-the-art metal detection equipment, visit <http://erieznews.com/nr462>. “Damaged Calender Rolls: A Pressing Problem,” is available for download at <http://erieznews.com/nr462wp>.

Eriez is recognized as world authority in separation technologies. The company’s magnetic lift and separation, metal detection, fluid filtration, flotation, materials feeding, screening, conveying and controlling equipment have application in the process, metalworking, packaging, plastics, rubber, recycling, food, mining, aggregate and textile industries. Eriez manufactures and markets these products through 12 international facilities located on six continents. For more information, call (814) 835-6000. For online users, visit www.eriez.com or send email to eriez@eriez.com. Eriez World Headquarters is located at 2200 Asbury Road, Erie, PA 16506.

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