



ORANGEREPORT

PROCESSING INDUSTRY

Detecting Tramp Metal Early Keeps Carding Machine Running Smoothly at Clark Felt Company



ERIEZ® E-Z TEC® METAL DETECTOR

Problem:

Clark Felt Company, a Texas-based manufacturer of high loft non-woven material, including cotton, synthetic and fire retardant batting, was experiencing frequent shutdowns of its carding machine because of metal entering the unit without detection. By the time the tramp metal was discovered by workers, damage had been done to the cylinder wire on the card. With each occurrence costing anywhere from \$20,000 to \$25,000 to fix the problem, the company needed to act quickly to find a solution.

Solution:

Clark Felt turned to Eriez®, recognized as world authority in advanced technology for magnetic, vibratory and inspection applications. After consulting with Eriez representatives and design engineers, Clark Felt installed an [E-Z Tec® Metal Detector](#) with 10-inch high x 102-inch wide aperture and special anti-static slider bed. Since cotton and polyester non-woven is static supporting, which is known to cause false trips in metal detectors, the Eriez E-Z Tec Metal Detector is equipped with a specialized electronic mode that ignores the high voltage charge. This feature enables the E-Z Tec to ignore the uni-polar static charge and look for the bi-polar signal generated by metal.

Result:

Clark Felt reports that since installing the Eriez detector in 2004, they have not had a single occurrence of metal contamination causing damage to the card. A member of the management team stated, "The Eriez Metal Detector has paid for itself several times over."

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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Web Site: <http://www.eriez.com> | e-mail: eriez@eriez.com

Telephone 814/835-6000 • 800/345-4946 • Fax 814/838-4960 • International Fax 814/833-3348

HEADQUARTERS: 2200 Asbury Road, Erie, PA 16506-1440 U.S.A.

MANUFACTURING : Australia • Brazil • Canada • China • India • Japan • Mexico • South Africa • United Kingdom • United States

World Authority in Advanced Technology for Magnetic, Vibratory and Inspection Applications