



From The Garbage Can to a Viable, Clean Fuel



Series 7000 Suspended Electromagnet



6000 Series Suspended Permanent Magnet

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

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Problem:

[Lundell Manufacturing](#), a longtime builder of recycling systems, was experiencing downtime and excessive costs due to conveyor maintenance at the company's Cherokee County Solid Waste facility in Iowa, where municipal solid waste (MSW) is converted into a processed engineered fuel. In this process, waste is tipped from trucks and loaded onto a conveyor where material is pre-sorted to remove bulky and non-compatible materials. The remainder is discharged onto an elevated sorting belt where workers remove recyclables, which are then dropped onto receiving conveyors that remove these materials to separate balers. In the original process, material was then fed over a series of conveyor belts to capture ferrous metals through redundant passes over the magnetic head pulleys--an effective process, but one that required a significant amount of maintenance.

Solution:

To reduce maintenance issues, Lundell installed an Eriez [7000 Series Suspended Electromagnet](#), positioned over the MSW, to remove ferrous metal matter from the flow. The process stream then passes through several other cleaning, sorting and drying processes, reducing it to paper/fluff. Based on Eriez recommendations, Lundell also installed an Eriez [6000 Series Suspended Permanent Magnet](#) to clean any remaining metal from the fluff prior to the pelletizing process. Its uniquely designed Erium-powered circuit captures the most elusive ferrous materials.

Result:

The process of converting solid waste to an efficient, clean fuel while culling out recyclable materials is one that positions Lundell as a leader in MSW technology. Eriez equipment has helped ensure this operation is as seamless as possible at the company's Cherokee County Solid Waste facility. Conveyor maintenance issues no longer exist and the cleaning process has been improved and simplified.

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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.

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