



Advanced Recycling uses Eriez® Magnetic Separators to Help Remove Lead-Based Bridge Paint and Recycle Steel Grit Safely



Advanced Recycling Mobile Abrasive Recycling Machines



Eriez Model B Feeder



Eriez Magnetic Drum Separator

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

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Problem:

The majority of bridges built in the United States, dating back to the 1950s, contain some amount of lead paint. Other steel structures such as water tanks and power houses commonly had a lead-based primer and top coat as well. When the Environmental Protection Agency (EPA) determined that lead was a hazardous material that was contaminating soil and groundwater, state and local governments were forced to replace lead with environmentally-friendly coatings. A solution for removing lead-based bridge paint without hauling thousands of tons of lead-contaminated blast debris to a landfill was needed.

Solution:

One solution is to remove the lead paint using a steel abrasive, separate the old lead paint from the steel grit and recycle the metallic abrasive material. Many commercial painting contractors are doing just that with a mobile abrasive blasting system manufactured by [Advanced Recycling Systems](#) (ARS). The patented Mobile Abrasive Recycling Machines use Eriez' [Magnetic Drum Separators](#) and [Model B Feeders](#) to separate the steel grit before it is washed and recycled back into the blasting mode. Eriez helped design the equipment so it would fit into the ARS portable unit that was then placed onto a trailer.

Result:

Today, Advanced Recycling Systems' machines have captured the market and continue to work on many well-traveled bridges, including the Manhattan and Henry Hudson bridges in New York and the Ben Franklin Bridge in Philadelphia. ARS equipment is also at work in shipyards and at various construction sites. "Eriez assisted in making this product work," says ARS President Gus Lyras.

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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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