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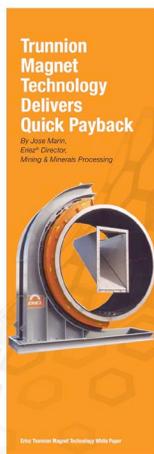
For Immediate Release

News for the Minerals Processing Industry

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New White Paper Explores Economics of Eriez® Trunnion Magnets



Performance metrics collected through studies conducted among installations of Eriez® Trunnion Magnets worldwide indicate a six-month to one-year payback when compared to trommel screen installations.

Using magnets to collect ferrous metals from process streams has a long history in the mining industry. This is especially true in the collection and disposal of grinding ball fragments in ball/SAG mill operations. Though often small in size, worn and broken grinding balls can cause serious problems if they are not detected and removed from the milling operation.

Grinding ball fragments in the milling circuit impact two critical areas:

- In the crushing circuit, where companies have observed damage to crushers, unscheduled downtime and loss of production. (See Figure 1.)

- In the grinding circuit, where companies have discovered wear on pumps, tanks, piping, hydrocyclones, and screens, as well as inefficient grinding, power consumption and optimization of overall mill throughput. (See Figure 2.)

Eriez® Trunnion Magnets provide a unique system for separating and removing balls, chips or scats in a typical ball/SAG mill operation. This technology replaces the dead weight of ball magnets with fresh ore. By effectively removing an estimated 80 percent or more of the worn or broken media, a Trunnion Magnet reduces power consumption from the mill drive and prevents expensive damage to other equipment. Case studies indicate a 250 percent increase in equipment life.

Erie, PA—[Eriez®](#) announces the release of the company's new white paper, "Trunnion Magnet Technology Delivers Quick Payback." According to the white paper, performance metrics collected through studies conducted among installations of [Eriez Trunnion Magnets](#) worldwide indicate a six-month to one-year payback when compared to trommel screen installations.

This white paper, written by Eriez Director of Mining and Minerals Processing Jose Marin, explains how [Trunnion Magnets](#) function, highlights their performance advantages, describes retrofitting options and provides detailed economic justification, including guidelines to assess savings potential.

A graph illustrates how kilowatt usage can be reduced by as much as 750 kW/day or eight percent. According to the white paper, cost estimates of a typical 18-foot diameter mill indicate savings of up to \$100,000 per year.

As explained in the white paper, there are hundreds of installations of [Eriez Trunnion Magnets](#) worldwide. This system for separating and removing balls, chips or scats in a typical ball/SAG mill operation replaces the dead weight of ball magnets with fresh ore. By effectively removing 80 percent or more of the worn or broken media, the Trunnion Magnet reduces power consumption from the mill drive and prevents expensive damage to other equipment, such as pumps and hydrocyclones.

To download "Trunnion Magnet Technology Delivers Quick Payback" and learn more about Eriez Trunnion Magnets, visit <http://erieznews.com/nr475>.

Eriez is recognized as world authority in separation technologies. The company's magnetic lift and separation, metal detection, fluid recycling, 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 subsidiaries 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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