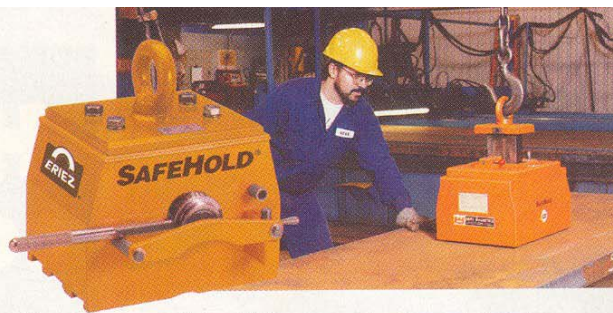


# Material Handling

## Lifting magnets ease and speed operations

The lifting magnets from Eriez Magnetics, Erie, Pa., allow manufacturers to lift, move or position iron and steel of any weight and shape

without slings, hooks or cables. The magnets have an additional advantage—they won't mar the surface of the handled material.



Eriez lifting magnets were exhibited at Fabtech International 2004 in Cleveland, and the company has added several new magnets to its line. The heavy-duty rectangular electro-lifting magnet is designed for multiple-plate handling applications, such as loading and unloading ships, barges, rail cars and trucks and is also used in storage yards, shipyards, steel mills and warehouses. A new line of square bipolar lifting magnets has joined that of the rectangular bipolar lifting magnets. The square magnets provide strength for lifting banded coils and miscellaneous bundled shapes. These magnets also have a deep, two-pole field for maximum holding power on irregular shapes.

The SafeHold permanent lifting magnets need no electricity to operate; instead the magnets provide continuous rare earth magnet lifting power until the magnet is turned off. Because there is no electricity, power failures cannot interrupt operation. Eliminating the power supply also removes hazards created by the failure of wiring systems or other service interruptions.

An internal on/off changeover mechanism eliminates scratches on the work surface when loading and unloading, so the magnets are ideal for carrying semi-finished products with flat surfaces such as machined parts, press dies for forming and steel plate. The SafeHold magnets come in several different sizes and can be used singly or in multiples to conform to the specific shape and weight of complex workpieces. They are capable of carrying flat as well as round materials in a variety of weights.

Equipment made by Eriez can be used to separate, purify, concentrate, move, feed and recover a variety of materials. The company designs and builds complete lifting magnet systems, including magnets, lift beams, power supplies, controls and battery backup units. ■

—Lauren Duensing

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*See Page 30 inside*

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