



Made in U.S.A.



## SOLUTIONS FOR FERROUS SCRAP & STEEL HANDLING

Magnets, Generators, Power Supplies, Controls, Repair & Rebuild Services



**APPLICATION EXPERTISE** — Ohio Magnetics offers a complete range of magnetic lifting systems ranging from cast to fabricated housings with aluminum and copper windings that can handle almost any ferrous metal handling application. With a wealth of practical experience and manufacturing expertise, Ohio Magnetics works closely with customers to meet their unique needs and develop innovative solutions that improve magnetic system productivity. Drawing on years of application expertise, we can help you select the optimum magnet system for your application.

Construction | Material Handling | Metal Processing | Mining | Oil/ Gas | Transportation | Scrap Metal Recycling | Steel Mills

**QUALITY MANUFACTURING** — For over 100 years, Ohio Magnetics has designed and manufactured quality magnetic lifting systems and magnetic separation equipment, becoming a world leader recognized for industry excellence.

**EXPERT TECHNICAL SUPPORT** — Ohio Magnetics provides the most comprehensive technical services in the Industry, from an optimum magnet design for your application to proper use and handling for peak performance and longevity and evaluate your needs and help with system deployment.

**CUSTOM MADE SOLUTIONS** — The Ohio Magnetics team, equipped with a century of technical experience, provides custom engineered solutions to meet specific application requirements. Ohio Magnetics is a worldwide leader in the development of magnet systems for the recycling industry.

**REPAIR & REBUILD** — Ohio Magnetics has a full service magnet repair and rebuild facility with experienced engineers and technicians available for fast turnaround on all makes and models of magnet systems. Our craftsman will rebuild magnets to match or exceed its original performance specifications.

**MADE IN U.S.A.** — All Ohio Magnetics products are manufactured in the United States and sold both domestic and globally.

# STEEL HANDLING MAGNETS

*High Quality • Dependable • Versatile • Reliable*

## FABRICATED RECTANGULAR MAGNETS

Fabricated Rectangular Magnets are custom engineered for specific applications in the handling of sheets, plates, billets and bars in steel service centers.

- Heavy duty fabricated case design
- Aluminum or copper coil designs based on application requirements
- Efficient power consumption
- Hot Work Magnets option available (see below for details)



## FABRICATED BI-POLAR MAGNETS

The Bi-Polar Lifting Magnets are custom engineered for higher temperature environments and more challenging material lifts. They are a versatile choice for various mill, structural and rebar handling applications.

- Deeper magnetic field penetrates larger air gaps for superior performance
- Custom designed pole shoes for optimum material contact for radial or irregular shapes
- Efficient power consumption
- Hot Work Magnets option available (see below for details)



## RECTANGULAR SCRAP MAGNETS

Rectangular Scrap Magnets provide optimum scrap charging capabilities, ideal for the loading and unloading of rail cars.

- Heavy duty construction
- Dual voltage and special voltages available
- Dual coil design allows for quick energizing and de-energizing times
- Sizes manufactured to suit application constraints



## COIL HANDLING MAGNETS

Coil Handling Magnets are custom designed to handle specific sized coils in the vertical or horizontal eye position.

- Able to lift coils up to 55 tons
- Designed to lift coils with minimal stress



## VERS-A-LIFT™ MAGNETS

Powerful and easily portable VERS-A-LIFT™ magnets are ideal for cranes to efficiently lift, hold and place steel materials.

- Available in standard 115 VDC voltage or with built-in rectifiers for 115 VAC
- Models with built in rectifiers can be plugged directly into 115 VAC wall outlets
- Separate rectifiers are also offered for DC rated magnets
- Attaches quickly and easily with 1 inch I.D. lifting ring

## HOT WORK MAGNETS

Hot Work Magnets are engineered for applications greater than 300°F (150°C).

- Strap copper conductor and premium insulation
- Non-magnetic heat shield to insulate the coil
- Additional options available to provide optimum magnet cooling





# SCRAP HANDLING MAGNETS

Performance Engineered • Ultra Reliable • Low Maintenance • Heavy Duty

## LOADSTAR™ & SUPER LOADSTAR™ SERIES

The LOADSTAR™ series of lifting magnets feature a heavy duty cast case construction designed for production scrap handling.

- Sizes ranging from 48" to 72" (1220 to 1829 mm) in diameter
  - Sizes are cast case except for 72" fabricated
- Continuous duty cycle ratings
- Deep field (LOADSTAR) or extra deep (SUPER LOADSTAR) field coil design
- Magnet options matched to excavator mechanical and hydraulic capacity
- Chain suspension standard
- Standard hard face weld on SUPER LOADSTAR Series for high abrasion applications

## FABRICATED & CAST MAGNET SERIES

The Fabricated and Cast Magnet Series are heavy duty magnets designed for production scrap handling.

- Sizes from 48" to 93" (1220 to 2362 mm) diameter
- Continuous duty cycle ratings
- Magnet options matched to excavator mechanical and hydraulic capacity
- Chain suspension standard, optional quick disconnect interface
- Optional abrasion resistant surfaces for pole shoe wear protection

## POW-R-LITE™

The POW-R-LITE™ Series of magnets are fabricated magnets designed for rail, construction, and material handling – a smart choice for light duty scrap and general steel plate handling.

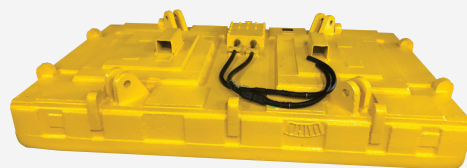
- Sizes 20" to 45" (508 to 1143 mm) diameter
- Powerful, lightweight, portable for smaller equipment and factory overhead cranes
- Chain suspension standard, optional quick disconnect interface

*POW-R-LITE can also be used for steel handling applications.*

## CUSTOM FABRICATED MAGNETS

Ohio Magnetics engineering team will work with you to design a magnet specific for your needs. Our custom magnets are ideal for use in production scrap, mill duty, slag and drop ball applications.

- Options for high impact, wear resistance, increased duty cycles and hot work applications
- Underwater operation available



# CONTROLLERS, POWER SUPPLIES AND AUXILIARY EQUIPMENT

In addition to manufacturing high-quality, heavy duty magnets, Ohio Magnetics provides equipment to power, control and enhance safe magnet operation.

Our power systems are designed to properly match every magnet selection, to provide energy efficient operation with precision lift release controls.

## MAGNET CONTROLLERS

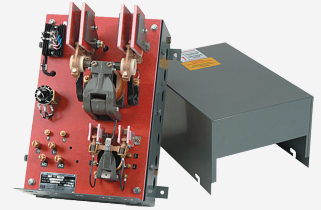
These reliable controllers include automatic drop and manual drop functionality to energize and de-energize the magnet. There are six models available from 5 amps to 200 amps DC with adjustable release controls.

## DC POWER SUPPLIES - RECTIFIERS

We manufacture high quality DC power supplies with fixed voltage output (115 VDC or 230 VDC) and variable voltage output (0-230 VDC or 0-300 VDC) available for 2 KW to 100 KW magnet systems. Emergency battery back-up systems also available.

## AUXILIARY EQUIPMENT

We offer a full line of lifting magnet equipment for the safety and reliability of your operation. Turnkey product and service support includes spreader beams, power sources, control panels, disconnect switches, battery back-ups, monitoring systems, alarms and more.



OHIO MAGNETICS, INC.  
5400 DUNHAM RD | MAPLE HEIGHTS, OH | 44317-3687  
TEL: (216) 662-8484 | [sales@ohiomagnetics.com](mailto:sales@ohiomagnetics.com)  
© 2023 OHIO MAGNETICS, INC.

All trademarks in this material are the property of the HBD Industries, Inc., or its subsidiaries. The HBD and HBD brands logotype, are trademarks of HBD Industries, Inc. All rights reserved.

100 YEARS

