

Self-Cleaning and Stationary Electro-Magnets



ENGINEERED PRODUCTS

Trio's air-cooled, self-cleaning electro-magnets are suspended overhead magnets designed for removing steel and other magnetic materials from aggregate, recyclable, and other materials during the crushing, screening and sorting processes. A conveyor belt travels around the magnet and carries the material that is drawn upward, away and into collecting hoppers or onto the ground. These units are typically installed either in-line with corresponding conveyors (as shown in top right photo), or in a cross-belt configuration (90° across the conveyor belt). They are ideal devices for removing both small and large metallic debris from crushed aggregate and recycled material. Their air-cooled design was developed for long-term, trouble free operation.



Specifications

Magnets equipped with heavy steel side plates
 Solid steel core
 Variable strengths and wattage depending on magnet size
 Screw take-ups on tail pulley
 Lagged head pulley
 Wound coils w/ class H insulation

Two year warranty against magnetic coil burnout
 NEMA 4 Terminal Box
 150 FPM belt speed (variable)
 Oil-based paint
 Stainless steel armored belting
 Four pulley design

Applications

Mixed Demolition Debris

Crushed or Broken Concrete

Hard Rock Crushing

Mixed Solids at MRF Facilities

Shredded Tires

Organic Composting

Models/Sizes

CR36 — 36" x 42"

CR42 — 42" x 48"

CR48 — 48" x 54"

CR54 — 54" x 60"

All sizes available with stationary extensions as well

Other Considerations

One Year Warranty

Quick Deliveries

Off-the-shelf parts

Nationwide distribution

Superior Quality

Low Price Guarantee

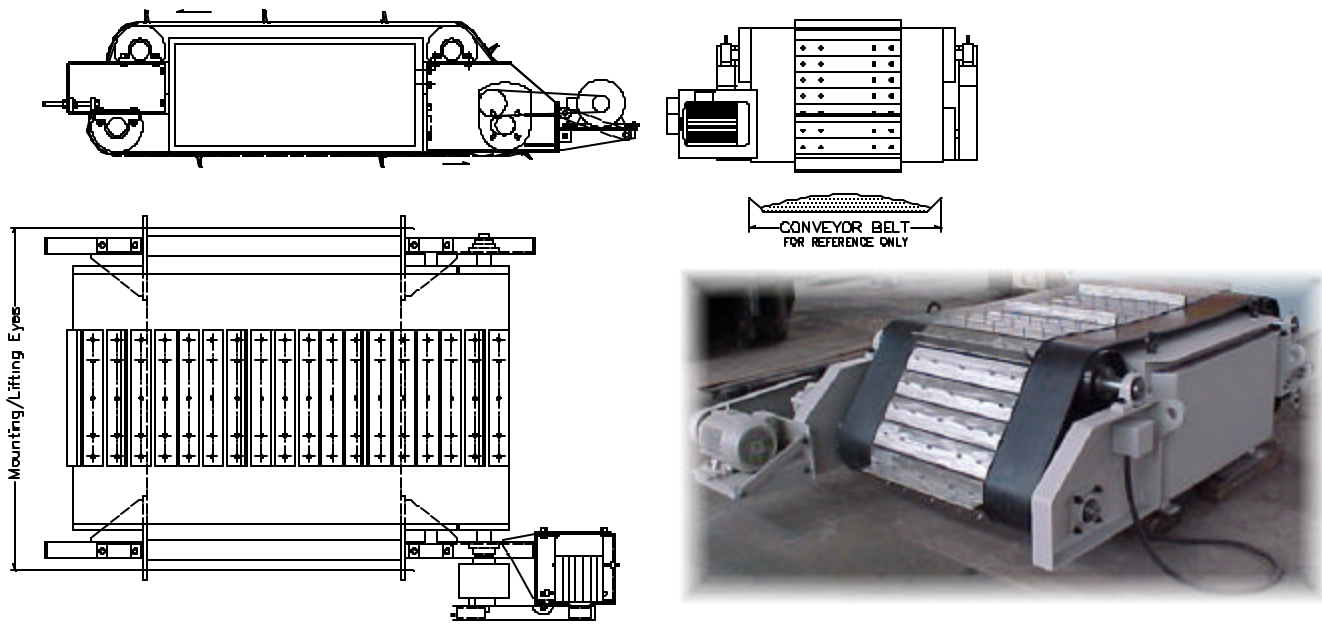
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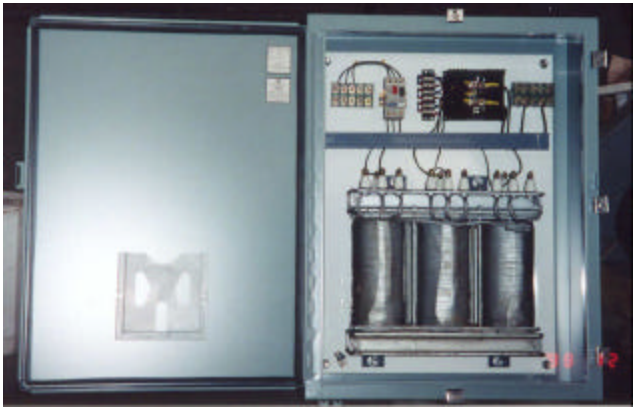
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Model	Magnet Size	Distance For 1/2" Nut	Power (Watts)	Magnetic Intensity (Gs)	Max Effective Height	Belt Speed (fpm)	Motor Size (HP)	Weight (lbs)
CR 36	36" x 42"	20"	5,400	760 @12"	20"	300	5	5,800
CRS 36	36" x 42"	20"	5,400	760 @12"	20"	NA	NA	4,200
CR 42	42" x 48"	22"	6,500	860 @12"	23"	300	5	6,200
CRS 42	42" x 48"	22"	6,500	860 @12"	23"	NA	NA	4,600
CR 48	48" x 54"	24"	8,400	960 @12"	24"	300	5	7,200
CRS 48	48" x 54"	24"	8,400	960 @12"	24"	NA	NA	5,400
CR 54	54" x 60"	26"	10,000	1,080 @12"	26"	300	5	8,800
CRS 54	54" x 60"	26"	10,000	1,080 @12"	26"	NA	NA	6,200

Trio's rectifiers provide electric power to electro-magnetic material separators by converting AC power to DC current. Each rectifier consists of a sealed cabinet with access door. Each cabinet contains an assortment of electrical components. Ratings and sizes of the various components are determined by the application. Rectifiers are sized in a range of wattages to correspond to the power requirements of each respective electro-magnet.



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