

Material Handling Magnets



Puritan offers a wide range of permanent and electro type magnets, components, and devices for holding, lifting, conveying, and other material handling applications. Puritan's magnetic equipment is available in standard sizes and strengths. Special designs, and engineering assistance are always available for difficult applications.

Puritan's magnetic designs will always deliver optimum performance when properly used for the application. If you are in doubt selecting the proper magnet or it's use, please send us a sketch and available information on the application. Your request will receive our prompt attention.

A Partial List of Magnet applications

Holding
Positioning
Fixturing
Conveying Steel Products
Press Feed Mechanisms
Paint Racks
Loaders/Unloaders/Sorters
Separate (Fan) Steel Blanks
Hand Tools
Lift Applications
Door Closures
Magnetic Sweepers
Coolant Filters
Scrap Handling
Part Orientation and Control
Turnover Devices
Masking
Automation Systems
Medical Devices
Equipment and Product Protection

Quality Features of Puritan Material Handling Magnets

- Rare earth, alnico, ceramic, and electromagnetic designs
- Heavy duty construction to meet most application needs
 - Dependable performance for automation, conveying, supporting, stacking/de-stacking, and other handling systems
 - High magnetic "hold" contact surfaces
- Designs have been developed and proven in thousands of O.E.M. and production applications

Unlimited Warranty on Magnetic Strength

- Puritan's magnetic designs resist demagnetization
- Permanent magnetic designs will not turn off during a power failure
 - Little or no maintenance needed
- NOTE: Puritan magnets will retain their full magnetic strength unless subjected to extreme adverse conditions or used improperly. Contact Puritan for detailed information

Magnetic Materials used in Puritan Magnetic Devices

Rare Earth Magnets

- 10 times stronger than ceramic, and can have 25 times the holding value
- Designed magnetic circuit provides highest energy output
- Delivers optimum performance for size, thus allowing reduction in magnet weight and size
- Available in Neodymium-Iron-Boron and Samarium Cobalt

Alnico Magnets

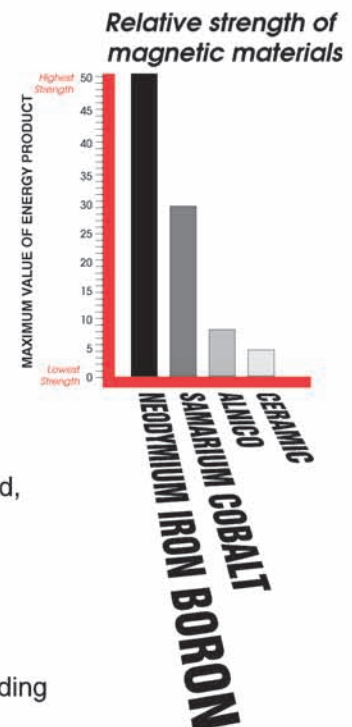
- Good magnetic "reach out"
- Can be effectively used up to 1000 degrees F

Ceramic Magnets

- Offer good design flexibility
- Can be provided in assemblies with drilled, tapped, and through holes
- Available with special tabs and mounting
- Hold their magnetic strength forever, resisting demagnetization

Electromagnets

- Low voltage, concentrated, maximum holding power at continuous duty cycle
- Responsive in automated applications
- Ruggedly constructed as a welded assembly and/or high temperature epoxy encapsulation
- Remote control or manually operated
- Ideal for specialized applications



Custom Magnetic Designs



Overhead / Inverted Convey Systems

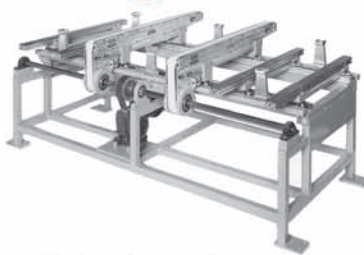


Table Top Conveying Systems



Automatic Ferrous Part Separator

Conveyors



Belt Conveyors



- Magnetic and non-magnetic designs
- Transfer scrap or parts to and from stamping presses
- Remove chips from metal working machinery
- Automate existing systems
- Available in belt and belt-free designs
- Custom configurations including horizontal, dogleg, incline, and low profile
- Ceramic and rare earth component options
- Stacking and destacking systems



Belt Free Conveyors

Conveying Components



Conveying Rail and Pulley



Electromagnetic Rail

- Modify existing systems
- Stabilize moving parts
- Automate systems
- Rails and pulleys available in various strengths
- Pulleys and rails are available in a wide range of lengths and diameters
- En masse conveying components also available
- Ceramic, rare earth, and electro magnetic options
- Tabletop, mat top, cable, and other special rail designs are available



Skate Rail



Magnetic Pulleys

Blank Fanners



Permanent Blank Fanners

- Separate oily, sticky blanks
- Improve employee safety in manual blank handling operations
- Eliminate double blanks
- Available in various strengths
- Custom sizes and configurations
- Ceramic and rare earth options
- Permanent magnet with on/off switch
- Electromagnetic fanners available

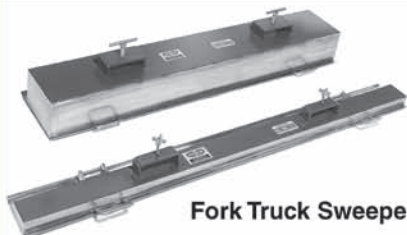
Pneumatic On / Off



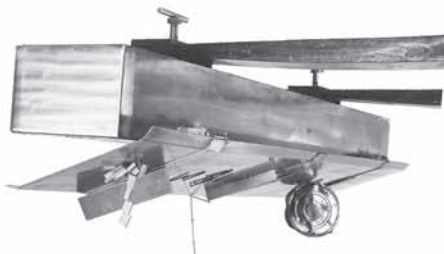
Manual On / Off



Floor and Road Sweepers



Fork Truck Sweepers



- Remove nails and other unwanted ferrous materials from floors, parking lots, roadways, and runways
- Various styles and strengths to choose from
- Fork truck mounted models
- Towable models
- Permanent and electromagnetic designs
- Simplified methods of cleaning



Electromagnetic Towable Sweepers



Electro Magnets

- Automated parts transfer
- Temporary holding and fixturing
- Power supplies provide quick cycling required for automated equipment
- Standard round, square, and rectangular sizes available
- Power supplies with various control options



Lift Magnets

- Pick and place steel objects
- Lift dies, molds, structural steel, and steel plates
- Permanent magnet requires no external power source
- Standard sizes available with lifting capabilities of 800-6000 lbs.
- Custom sizes and configurations available
- Battery powered and electric lifts available
- Remote control options available



Additional Products and Services

Holding and Fixturing Magnets

Magnetic Filters

Magnetic Hand Tools

Custom magnet designs to meet specific customer needs

Engineering and product testing

Custom sheet metal fabrications

Magnetic separation equipment to purify products and protect equipment

For technical assistance or to order

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Solutions To Your Magnetic Needs



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