METALWORKING MAGNETS

AND MORE

MAG-MATE®

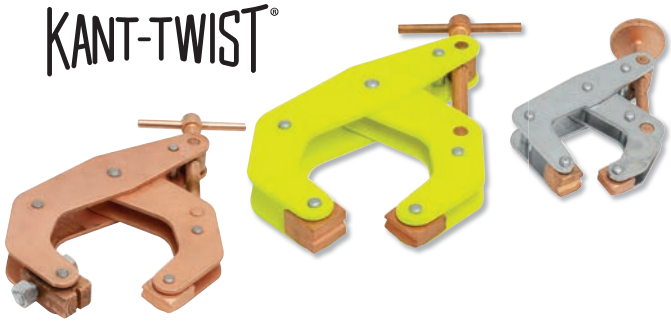
WALKER MAGNETICS

AUTOMATION

FX LIFT FXE LIFT

NO-MAR

KANT-TWIST®



Making Things Better®

MAGNETS, METALWORKING & MATERIAL HANDLING CATALOG - 101Y

WHO WE ARE

Industrial Magnetics, Inc. is an industry leader in providing both permanent magnets and electromagnets for work holding, lifting, fixturing, conveying and magnetic separation.

At IMI, our specialty is custom fabricating! We design, engineer and manufacture magnetic assemblies and magnetic separation devices for our customers' specific requirements, and take pride in the quality and performance of our products.

With worldwide distribution through a combination of a direct sales force and manufacturers representatives, we strive to provide personalized service and innovative solutions to meet the exact needs of your application.

THREE PRODUCT GROUPS, ONE GOAL...the right product for the application at the right time for our customer

IMI is proud to be a United States - based manufacturer of magnetic assemblies and our USA M.A.D.E™ logo is how we like to show it. You will find our USA M.A.D.E™ logo on any of our products that are **Manufactured • Assembled • Designed • Engineered** here, in the USA, at our facilities.

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MAGNET BASICS & SAFETY INFORMATION

MAGNET MATERIALS

Flexible magnetic strips are made of a Ferro-Magnetic powder with a polymer bonding. These **low** energy strips resist demagnetization and will not chip, crack or shatter. Flexible magnets form to any contour and are often used for labeling or advertising purposes. Flexible magnets can be cut, drilled or shaped. Maximum temperature 160°F (70°C).

Ceramic magnets are made of Strontium Ferrite (SrFe) in a sintering process. Ceramic magnets are staples in the electronic, automotive, medical, mining, oil industries, etc. Ceramic magnets are **medium strength** magnet material with a high resistance to demagnetization, long time stability (loses 0.5% of its magnetic strength in 100 years), brittle material that has to be cut with diamond tipped blades. Temperature rage -148°F (-60°C) to 480°F (249°C).

Alnico magnets are made of Aluminum, Nickel and Cobalt (AlNiCo) in either a casting or sintering process. Used in application environments that have **high heat**, Alnico magnets offer **medium strength** and the best temperature characteristics of any standard magnet material. Alnico magnets have a medium resistance to demagnetization and are very hard and brittle. Machining or drilling cannot be accomplished by ordinary means. Temperature range -167°F (-75°C) to 800°F (427°C).

Rare Earth Neodymium-Iron-Boron (NdFeB) magnets are made in sintered as well as bonded forms. Commonly referred to as Neo, this magnet material provides the **highest magnetic strength** of any magnet material, very high resistance to demagnetization and is ideal for applications requiring maximum strength in a limited area. Neo is usually coated or plated to prevent oxidization due to its high iron content and therefore grinding of Neo material must be avoided. Temperature range -302°F (-150°C) to 180°F (82°C).

Rare Earth Samarium Cobalt (SmCo) magnets are made in a sintering process. Samarium Cobalt has the **highest magnetic strength** combined with **high temperature range** making it ideal for applications requiring very high strength in hot environments. Temperature range -302°F (-150°C) to 392°F (200°C).

MAGNET SAFETY FACTORS

Our magnetic material meets Magnetic Materials Producers Association (MMPA) standards for physical quality and magnetic properties. Some magnetic material is brittle in nature and minor defects such as chips and hairline cracks are unavoidable.

When selecting a magnet for your application, consider the physical shape of the part (round, convex, concave, etc.) and the surface condition (rough, rusty, dirty, oily). Both can result in air gaps* between the contact points on the magnet and the work material, thereby reducing the magnetic power. These factors and the information in this catalog will aid in choosing the correct magnet for your application. If you have specific questions, our application experts can help you select the right magnet material for your application requirements.

- Work surface
- Temperature
- Direction of magnetization
- Finish
- Part size, thickness and weight
- Material - Ferrous or non-ferrous
- Gauss
- Contact area between magnet and part
- Continuous or intermittent operation
- Tolerance

*Air gap - The air, protective coating, paint, galvanizing, oil, rust, dirt, etc. between the magnet and the part.

LOSS OF MAGNETISM

Under normal use conditions, a permanent magnet can experience a decrease in its original holding value. The most common factors which can cause a loss of strength include:

- Every day wear and tear on the magnet face.
- Exposure to extreme temperatures outside the magnet's temperature range.
- Severe blow or shock to the magnet. Do not use a blunt instrument to position the magnet on the load.
- Exposure to electrical currents. Never place the magnet next to a large motor or generator. Never use the magnet as part of a welding ground circuit.
- Exposure to vibration.

LIFT MAGNET SAFETY FACTORS

Lift magnets can be effective even when the surfaces of the magnet and/or load have dirt, paint, scale or other debris on them. However, the best efficiency of any magnetic lift is achieved when these surfaces are clean and the poles of the lift (the surfaces in contact with the load) have good, uninterrupted contact with the load.

It is therefore recommended to:
Avoid setting down the lift magnet in places on the load that are dirty or have rough surface texture. Clear any foreign material from the load before setting the lift magnet on it. Occasionally check the mechanical condition of the magnetic poles to make sure they are flat and have not been damaged during use. After using the lift magnet, protect the pole surfaces with oil. This will keep the steel surface from rusting.

LIFT MAGNET BASICS & SAFETY INFORMATION

MATERIAL SURFACE & SAFE LIFTING CONDITIONS

Lifting ferrous items using a magnet requires a good look at the length, width and thickness of the item. Thin metals do not absorb as many of the magnetic flux lines (magnetic energy) as thicker metals. Thin metals also flex, causing the steel to peel-off the magnet. Equally important is the physical size, flatness, surface conditions and type of steel. The charts below illustrate how surface finish and Carbon content affect lifting value.

PERCENTAGE OF STATED LIFTING POWER BY MATERIAL

CARBON CONTENT	
LOW CARBON 0.05 - 0.29%	100%
MODERATE CARBON 0.30 - 0.59%	85%
HIGH CARBON 0.60 - 0.99%	75%
HIGHER CARBON = HIGHER RESIDUAL*	

PERCENTAGE OF STATED LIFTING POWER BY SURFACE FINISH

SURFACE FINISH	
GROUND SURFACE	100%
ROUGH MACHINED	100%
FOUNDRY FINISH	85%
ROUGH CAST	65%

*** HIGH CARBON STEEL (TOOL STEEL) WILL ABSORB MAGNETISM & MAY MAGNETICALLY STICK TO STEEL SURFACES, SUCH AS THE MAGNET, OR ATTRACT FERROUS PARTICLES.**

DESIGN FACTOR

Design Factor is the relation of the magnet's labeled Working Load Limit (WLL) compared to the magnet's maximum lifting value under ideal conditions. Ideal conditions are when a magnet is new and pulled off a newly machined, thick, low carbon steel plate. ***The pounds of pull it takes to break the magnet away from the steel surface is the "maximum" lifting value.***

> ⚠ **Unless otherwise noted, magnet working load limits are stated up to 50% of the actual value. These magnets may reach substantially higher holding values, but the surface condition of the part may affect the magnet's performance capabilities.**

Working Load Limit (de-rating) values are then determined by taking this maximum lifting value and dividing it by the manufacturer's design factor. Design factors are minimum 2:1 and most cases 3:1. This means a magnet with a 3:1 design factor and labeled with a working load limit of 1,000 lbs will have a break-a-way force minimum of 3,000 lbs. The labeled WLL is stated for the benefit and safety of the user, due to the fact that ideal conditions rarely exist in the field. The steel that you are lifting may have scale, rust, dirt, or coatings on its surface; or the surface of the magnet itself may be worn. Any of these conditions will cause lower lifting values. Pick a lift magnet that has a WLL value slightly higher than the weight of your part.

DO NOT ADD additional weight to your lifting requirements. If you have a 1,000 lb part and you buy a higher labeled 2,000 lb lift magnet, it will result in a magnet that is much heavier, harder to handle and cost more than needed since the 2,000 lb magnet should have a Design Factor of 2:1 or 3:1. **Under no circumstances should you lift ferrous objects that weigh more than the stated Working Load Limit value**.

ASME B30.20 LIFTING STANDARDS & ASME BTH-1 DESIGN STANDARD

The American Society of Mechanical Engineers (ASME) has established standards for Below-the-Hook Lifting Devices. These standards apply to the marking, construction, installation, inspection, testing, maintenance, and operation of all lifting magnets when used for single or multiple steel piece handling operations in which the operator of the lifting magnet is required to manually position the lifting magnet on the load and manually guide the load during its movement, or in close proximity to people.

Lifting devices designed to these Standards shall comply with ASME B30.20, Below-the-Hook Lifting Devices. Designed and manufactured to ASME BTH-1 Standard.

Industrial Magnetics, Inc. offers several lift magnet options that conform to the ASME B30.20 Standards

MAG-MATE® CUTTING TABLE TOOLS & RETRIEVERS

PART PICKER MAGNET

USA M.A.D.E.

This magnet is ideal for picking parts off cutting tables, retrieving fallen parts, or holding steel in place during other operations.

- Securely grips heavy or sharp parts
- Powerful, permanent, rare-earth magnet
- Solid, light-weight, aluminum handle
- Can be used on hot parts up to 180°F (82°C)

Hold - lbs (kg)	Diameter (in)	Length (in)	Weight (lbs)	Model No.
110 (49.90)	2.03	5-3/8	0.60	PP2004R

CUTTING TABLE TOOLS & RETRIEVERS

MAG-MATE®

RAPIDFIRE RETRIEVER®

Features
- Retrieve hot parts off cutting tables with speed & precision!
- Increase production while reducing the potential for injury
- Powerful Rare Earth Magnet holds part securely
- "On-Command" release with just a quick blast of shop air
- Actuate release with just one finger, it's as simple as the pull of a trigger

Lift - lbs (kg)	Dia. (in)	Length (in)	Weight (lbs)	Model No.
35.0 (15.88)	3	24	2.1	RFR2400
35.0 (15.88)	3	36	2.3	RFR3600
35.0 (15.88)	3	48	2.5	RFR4800
16.0 (7.40)	1.5	7	0.5	RFR7-15
35.0 (15.88)	3	7	0.8	RFR7-30

POWER GRIP

Features
- Effective holding against shear force
- Securely grips heavy parts
- Maximum Temp. 300°F (148°C)

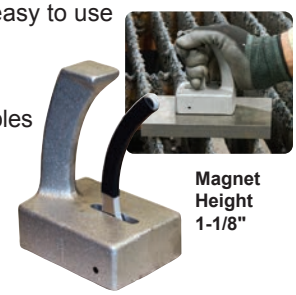
Magnet Height 1"

Lift - lbs (kg)	Ht. (in)	Wd. (in)	Ln. (in)	Poles	Wt. (lbs)	Model No.
25.0 (11.34)	2	3/4	2-1/8	2	0.40	AC2100WLH
51.5 (23.36)	2-1/4	3/4	4	2	0.75	AC2200WLH
92.5 (41.96)	2-3/4	1-7/8	5-1/4	4	1.80	AC2201WLH

MAGNETIC TRIGGERLIFT®

Hand held lift grips parts with an easy to use trigger release.

Features
- Retrieve hot parts from cutting tables
- One handed operation
- Permanent magnet
- Move parts faster and easier
- Aluminum housing
- Maximum Temp. 300°F (148°C)



Magnet Height 1-1/8"

Lift - lbs (kg)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
50.0 (22.68)	4-13/16	2-3/8	3-3/8	1.50	B090

GRIP STICK RETRIEVER

Features
- Reduce employee injury by keeping hands out of press
- Magnet & Grip ends are interchangeable.
- Retrieve hot parts
- 10° angled handle

Lift - lbs (kg)	Type	Ht. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Model No.
12.5 (5.67)	Low Profile	7/8	1-3/8	14	0.65	IMPL2100
43.5 (19.73)	Low Profile	7/8	1-3/8	14	0.65	IMPL2104
40.0 (18.14)	Heavy Duty	1-7/8	7/8	14	0.90	IMPL3040
60.0 (27.21)	Heavy Duty	1-7/8	1-7/8	14	1.05	IMPL3060

POWER GRIP PLUS

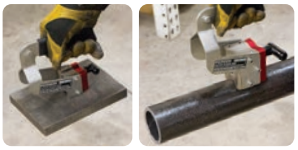
Features
- Securely grips heavy/hot/sharp parts
- Lightweight, non-conductive nylon handle
- Easy side-roll release
- Maximum Temp: Ceramic 300°F (148°C), Neodymium 180°F (82°C), Samarium Cobalt 392°F (200°C)

Note: Magnet Length 6", Magnet Width 0.56"

Lift - lbs (kg)	Magnet Type	Ht. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Model No.
50 (22.68)	Ceramic	5	2.17	7.5	2.6	PG2050C
180 (81.65)	Neodymium	5	2.17	7.5	2.6	PG2180N
110 (49.90)	Samarium	5	2.17	7.5	2.6	PG2110S

ON/OFF POWER GRIP

Features
- Switchable Rare Earth Magnet
- Securely grips heavy parts
- Works on flat or pipe
- Max. Temp. 180°F (82°C)
- Locking On/Off Handle
- Comfort Grip



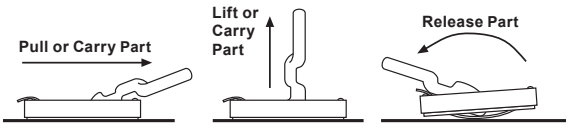
Flat Lift - lbs (kg)	Round Lift - lbs (kg)	Ht. (in)	Wd. (in)	Ln (in)	Magnet Wd. (in)	Magnet Ln (in)	Wt. (lbs)	Model No.
60 (27.22)	30 (13.61)	5	2	6	1-1/2	1-1/4	1.65	PG3060N
100 (45.36)	50 (22.68)	7-3/4	3-3/8	7-1/2	2-1/2	2	5.65	PG3100N

Lift value on pipe varies based on diameter and wall thickness.

MAGNETIC SHEET HANDLERS

Features
- Lift or move sheets, plates, hot or oily parts
- Handle sheets stacked horizontally or vertically
- Protect workers from cuts, slivers, nicks & burns
- Increase productivity

Note: Not intended to be used with a crane



Lift - lbs (kg)	Th. (in)	Wd. (in)	Handle Ln. (in)	Overall. Ln. (in)	Mag. Ln. (in)	Mag. Th. (in)	Wt. (lbs)	Max. Penetration (in)	No. of Poles	Model No.
50.0 (22.6)	4	3-5/8	8	11-1/2	6-1/8	1-3/8	3.75	3/16	4	B100
125.0 (56.7)	4	7-1/4	8	11-1/2	6-1/8	1-3/8	6.25	5/16	6	B250
200.0 (90.7)	4	7-1/4	8	11-1/2	6-1/8	1-3/8	7.25	5/16	8	B400
300.0 (136.0)	4	7-1/4	8	11-1/2	6-1/8	1-3/8	8.25	5/16	10	B600

MAG-MATE® PERMANENT CERAMIC MAGNETIC LIFTS

BASICLIFT™ MAGNETS

The BasicLift™ is a powerful, no frills permanent ceramic lift magnet perfect for basic flat steel lifting, angle iron, square tubes, etc. Featuring a lightweight and durable Stainless Steel design, the BasicLift™ has a full width cam to release the magnet from the steel surface and a tall lift lug for easy use with crane hooks and slings.

The BasicLift™ offers a good value for your dollar with strong lifting capacity and basic lifting features.

Features
- Lightweight Design
- Durable Stainless Steel Casing
- Large Lift Lug
- Full Width Cam Release
- Heat resistant up to 300°F (148°C)
- 2:1 Design Factor

	WLL		Overall				Magnet				Bail Opening			
Model No.	LBS	KG	Height (in)	Width (in)	Length (in)	Handle Length (in)	Height (in)	Width (in)	Length (in)	No. of Poles	Thickness (in)	Height (in)	Width (in)	Weight (lbs)
BL0400	400	181	5-1/2	5-5/8	7-1/2	12	1-5/8	4-1/2	3	4	1/4	2-3/4	2-3/4	11
BL1000	1000	453	5-1/2	5-5/8	11	12	1-5/8	4-1/2	6-1/2	8	1/4	2-3/4	2-3/4	17
BL1500	1500	680	5-1/2	5-5/8	14-1/2	12	1-5/8	4-1/2	10	12	1/4	2-3/4	2-3/4	24

Working Load Limit (WLL) in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use							
Model No.	3/16" (6' Length)	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	3" (10' Length)
BL0400	375 (170)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)
BL1000	725 (328)	800 (362)	875 (396)	975 (442)	1000 (453)	1000 (453)	1000 (453)
BL1500	875 (396)	1000 (453)	1400 (635)	1400 (635)	1500 (680)	1500 (680)	1500 (680)

NOTE: Working Load Limit (WLL) lifting values for the BasicLift™ Magnets are stated at 50% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. *These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part.

CREATIVE LIFT® MAGNETS

Permanent lift magnets are ideal for handling steel plates, die castings, forgings, etc. They eliminate the need for clamping devices, slings or chains. One person can perform operations previously calling for two or more people.

Features
- The original Non-Marring Roller Cam Release will easily release parts without gouging your valuable materials
- Spring return handle
- Less torque required to release load
- "Jack Screw", Secondary Release
- RFID Enabled
- Lift capacity clearly stated on magnet
- Durable Stainless Steel Casing
- Heat Resistant up to 300°F (148°C)
- 3:1 Design Factor
- **ASME B30.20 BTH-1 Design Category B Service Class 3**

	WLL		Overall				Magnet				Bail Opening			
Model No.	LBS	KG	Height (in)	Width (in)	Length (in)	Handle Length (in)	Height (in)	Width (in)	Length (in)	No. of Poles	Thickness (in)	Height (in)	Width (in)	Weight (lbs)
CL0400	400	181	6-3/4	7-1/4	7-3/4	16	2-1/2	6-1/2	4	4	3/8	2-7/8	3	21
CL1000	1000	453	6-3/4	7-1/4	10-3/4	16	2-1/2	6-1/2	7	8	3/8	2-7/8	3	33
CL1500	1500	680	6-3/4	7-1/4	14-3/4	16	2-1/2	6-1/2	10-1/2	12	3/8	2-7/8	3	46
CL2200	2200	998	7	10-1/2	15	16	2-1/2	9-3/4	11-1/4	12	3/8	2-7/8	3	69
CL3000	3000	1360	7	10-1/2	19-1/4	16	2-1/2	9-3/4	15-1/4	17	3/8	2-7/8	3	92

Working Load Limit (WLL) in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use							
Model No.	3/16" (6' Length)	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	3" (10' Length)
CL0400	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)	400 (181)
CL1000	600 (272)	900 (408)	1000 (453)	1000 (453)	1000 (453)	1000 (453)	1000 (453)
CL1500	800 (362)	1000 (453)	1500 (680)	1500 (680)	1500 (680)	1500 (680)	1500 (680)
CL2200	800 (362)	1064 (482)	1725 (782)	2000 (907)	2200 (998)	2200 (998)	2200 (998)
CL3000	800 (362)	1100 (498)	1800 (816)	2700 (1224)	3000 (1360)	3000 (1360)	3000 (1360)

NOTE: Working Load Limit (WLL) lifting values for the Creative Lift® Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. *These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part.

Order Online At **www.magnetics.com** Or Email Us At **imi@magnetics.com**

POWERLIFT® MAGNETS

These compact switchable Rare Earth permanent lift magnets can be used on flat or round surfaces and contain an internal release On/Off device that does not contact or damage the surface of the part being lifted. Permanent magnetic lifts eliminate the fear of dropping the load being lifted due to power failures.

The locking system is performed by first pulling on the handle to release the lock pin, then rotating the handle to the desired position. The locking feature prevents the handle from being bumped partially "On" and avoids giving the operator a false feeling that the magnet is holding safely.

Features

- On/Off Rare Earth Permanent Magnet
- Handle locks in both On and Off position
- Lifts flat or round loads (see chart below)
- Easy internal manual release does not contact the load
- RFID Enabled
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- **ASME B30.20 BTH-1 Design Category B Service Class 3**

Picture above: A customized version of IMI's Vertical Lift Adaptor featuring two PowerLift® magnets, designed to lift ferrous metal from horizontal to vertical orientation or vise versa. Adjustable for various widths, thicknesses and shapes. Ask for Tech Sheet MG-02G for specifications.

	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Height (in)	Length (in)	Height (in)	Width (in)	Length (in)	Length (in)	Thickness (in)	Height (in)	Width (in)	Weight (lbs)
PNL0250	250	113	6-5/8	5	2-5/8	2-5/8	3-5/8	4	3/16	1-3/8	1-1/2	6
PNL0800	800	363	8-7/8	7-7/8	3-7/8	3-5/8	6-3/8	8	1/2	2-3/8	1-3/4	21
PNL1600	1600	726	8-7/8	10-3/4	4-3/4	4-7/8	9-1/8	9	5/8	3-1/2	2-1/4	51
PNL2500	2500	1134	13-3/8	12-5/8	6-1/2	7-1/8	10-5/8	10-3/4	3/4	4-3/4	3-3/4	122
PNL5000	5000	2268	18	16-1/2	8-3/8	9-1/4	14-7/8	16-3/4	7/8	6	4-3/4	288
PNL6600	6600	2993	22-1/4	20	10-1/4	11-1/4	18-1/16	20-5/8	1-7/16	7-1/4	5-3/4	485

Working Load Limit (WLL) in lbs (kg) & *Max Sheet Length Due To Sag For Material Thickness For Single Magnet Use								Round Lifting Applications		
Model No.	1/4" (6' Ln)	3/8" (8' Ln)	1/2" (8' Ln)	3/4" (8' Ln)	1" (10' Ln)	2" (10' Ln)	3" (10' Ln Length)	WLL - lbs (kg)	Min. Dia. (in)	Min. Th. (in)
PNL0250	180 (81)	250 (113)	250 (113)	250 (113)	250 (113)	250 (113)	250 (113)	125 (57)	2	1/2
PNL0800	270 (122)	500 (226)	615 (279)	800 (362)	800 (363)	800 (363)	800 (362)	400 (181)	3	1/2
PNL1600	NA	CF	800 (362)	1600 (726)	1600 (726)	1600 (726)	1600 (726)	800 (362)	4	1
PNL2500	NA	NA	CF	CF	1490 (675)	2500 (1134)	2500 (1134)	1250 (567)	5	2
PNL5000	NA	NA	NA	NA	CF	2625 (1190)	5000 (2268)	2500 (1134)	14	4
PNL6600	NA	NA	NA	NA	NA	NA	6600 (2993)	3300 (1496)	CF	CF

NOTE: Working Load Limit (WLL) lifting values for the PowerLift® Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Item Lifting Values are based on ideal conditions. Pipe length, wall thickness, diameter and surface condition can all affect the magnet's performance. Please consult the factory before specifying these magnets for use on round materials. *These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part. **CF = Consult Factory NA = Not Applicable (Magnets listed will not turn "ON" on specified material thicknesses.)**

MAG-MATE® PERMANENT RARE EARTH MAGNETIC LIFTS

VERSALIFT™ MAGNETS

Compact switchable Rare Earth permanent lift magnet for use on flat or round surfaces. Contains an internal On/Off release device that does not contact or damage the surface of the part. Locking On/Off handle prevents the handle from being bumped “On” or “Off”, combined with a permanent magnetic lift, eliminates the fear of dropping the load. More features than other lifts and manufactured in the USA (USA M.A.D.E.™).

Features
- Rare Earth Permanent Magnet
- Vertical Lift Capable using the optional Lift Lug attachment
- RFID Enabled - Embedded RFID Chip
- Locking On/Off handle & Test load feature
- Supports custom pole shoes (4, 1/4”-20 Tapped Holes, 1/2” deep)
- Lifts flat or round loads (see chart below)
- Stationary Lift Lug(s)
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- **ASME B30.20 BTH-1 Design Category B Service Class 3**

To operate Test Feature, pull spring loaded handle out and rotate it to the “TEST” position. Lift load approximately 2-3” to verify the magnet has the capacity to lift your load. Once verified, place load back down and turn the handle to the “ON” position. **Never complete entire lift operation in “TEST” position.**

	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
VL0600	600	272	6-1/2	7	3-3/4	5	5-5/8	6	3/4	2-1/4	1-3/4	20
VL0600W/LUG	600	272	6-1/2	11-5/16	3-3/4	5	5-5/8	6	3/4	2-1/4	1-3/4	21.15
VL1200	1200	544	6-1/2	11	3-3/4	5	10	6	3/4	2-1/4	1-3/4	27
VL1200W/LUG	1200	544	6-1/2	15-5/16	3-3/4	5	10	6	3/4	2-1/4	1-3/4	28.15
VLLUG1	-	-	3-1/2	4-5/16	-	-	-	-	-	-	-	1.15

Horizontal Part Working Load Limit in lbs (kg) & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use							
Model No.	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	2" (10' Length)	3" (10' Length)
VL0600	260 (117)	435 (197)	525 (238)	550 (249)	600 (272)	600 (272)	600 (272)
VL1200	NA	755 (342)	960 (435)	1165 (528)	1200 (544)	1200 (544)	1200 (544)

	Horizontal Part Round Lifting Applications			Vertical Part Lift (Flat Only)	
Model No.	Maximum WLL - lbs (kg)	Maximum WLL at Minimum	Diameter / Thickness	WLL - lbs (kg)	Minimum Thickness
VL0600	300 (136)	130 (58)	2.00 In. / 0.12 In.	150 (68)	1.00 In.
VL1200	600 (272)	600 (272)	4.00 In. / 0.50 In.	300 (136)	1.00 In.

NOTE: Lifting Values for the VersaLift™ Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8’, use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Lifting Values are based on ideal conditions. Consult the factory before specifying these magnets for use on round materials. *Max. sheet lengths are selected due to sag characteristics of specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part. **NA = Not Applicable (Magnets will not turn “ON” with stated thicknesses.)**

DYNAMICLIFT™ MAGNETS

These lightweight switchable Rare Earth permanent lift magnets can be used on flat or round surfaces and contain an internal release On/Off device.

Features
- Top rotating On/Off actuated Rare Earth permanent magnet
- Lifts flat or round loads horizontally and flat loads vertically
- Locking On/Off handle
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- **ASME B30.20 BTH-1 Design Category B Service Class 3**

	Working Load Limit		Overall		Magnet			Handle	Bail			
Model No.	WLL (lbs)	WLL (kg)	Height (in)	Length (in)	Height (in)	Width (in)	Length (in)	Length (in)	Thick. (in)	Height (in)	Width (in)	Weight (lbs)
DL0150	150	68.04	10	5	2-3/4	2-1/2	3	2-1/2	1/4	2-1/4	3	6.1
DL0334	334	151.50	10-7/16	6-1/2	3	4	4-1/4	2-1/2	1/4	2-1/4	4	13.3

Horizontal Flat Part WLL in lbs (kg), Min. Steel Thickness & *Max. Length Due To Sag For Single Magnet								Vertical Part Lift (Flat Only)	
Model No.	1/4" (6' Ln)	3/8" (8' Ln)	1/2" (8' Ln)	3/4" (8' Ln)	1" (10' Ln)	2" (10' Ln)	3" (10' Ln)	WLL - lbs (kg)	Min. Thickness
DL0150	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	150 (68.04)	40 (17.01)	0.25 In.
DL0334	275 (124.73)	320 (145.15)	334(151.49)	334(151.49)	334(151.49)	334(151.49)	334(151.49)	75 (37.88)	0.37 In.

Horizontal Round Part Round Lifting Applications				
Model No.	Maximum WLL - lbs (kg)	Minimum Diameter	Minimum Wall Thickness	Maximum WLL at Min. Diameter & Min. Thickness
DL0150	75 (34.02)	2	1/8	65 (29.48)
DL0334	167 (75.75)	4	1/8	100 (45.36)

NOTE: Lifting Values for the DynamicLift™ Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8’, use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Consult the factory before specifying these magnets for use on round materials. Round Item Lifting Values are based on ideal conditions. Length, wall thickness, diameter and surface can all affect the magnet’s performance. *Maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release.

ADVANTAGELIFT™ MAGNETS

The AdvantageLift™ has many advantages over other lift magnets on the market. This On/Off Permanent Rare Earth Lift magnet built to last in a heavy-duty industrial work environment while providing all the safety features that protect workers and equipment. First, the handle operation is by far the best and most ergonomic feature of the magnet. Handle moves laterally in and out instead of pulling the handle or pressing a release button or lever. While other magnets are not equipped to use a "cheater bar" to turn the magnet On and Off, we encourage the use with this lift magnet. No need to bend over to turn the magnet On and Off. Use a pipe "cheater bar" to side over the handle to turn the magnet On/Off when lifting steel off pallets or floor. Second, the lifting bail is the "lock-out" feature for this magnet. When magnet is under load, the lifting bail lock-out prevents the handle from being rotated to the Off position. This feature works on the vertical lifting bail as well.

Features

- On/Off Permanent Rare Earth Magnet
- Handle moves laterally instead of pulling, pressing buttons or levers
- Locking lifting bail(s) prevents accidental load release during lift
- Recessed (protected) labels for extended life
- Lifts flats both horizontally and vertically with Vertical Lift Bail
- RFID Enabled. Embedded RFID Chip
- Supports custom pole shoes (1/4"-20 Tapped Holes, ½" deep)
- Stationary Lift Bail(s)
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- ASME B30.20 BTH-1 Design Category B Service Class 3

	WLL		Overall			Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Wd. (in)	Ln. (in)	Ht. (in)	Wd.(in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
AL0500	500	227	8	5-7/16	10-1/8	4-5/8	3-3/8	6-3/16	10-1/8	1/2	1-7/8	1-1/2	33
AL1000	1000	454	8	5-7/16	13-1/4	4-5/8	3-3/8	9-3/16	10-1/8	1/2	1-7/8	1-1/2	46
AL1500	1500	680	10	6-7/8	13-5/16	6	4-3/8	9-3/16	11-7/16	5/8	2-7/32	1-3/4	80
AL2000	2000	907	10	6-7/8	16-5-/1/6	6	4-3/8	12-3/16	11-7/16	5/8	2-7/32	1-3/4	102
ALLUG1	-	-	3-9/16	4-3/8	4-11/16	-	-	-	-	1/2	1-7/8	1-1/2	4
ALLUG2	-	-	4-3/4	5-3/4	5-3/4	-	-	-	-	5/8	2-7/32	1-3/4	6

Working Load Limit (WLL) in lbs (kg) & *Max Sheet Length Due To Sag For Material Thickness For Single Magnet Use						Round Lifting Applications			WLL Vertical Flat Only				
Model No.	1/4" (6' Ln)	3/8" (8' Ln)	1/2" (8' Ln)	3/4" (8' Ln)	1" (10' Ln)	2" (10' Ln)	WLL- lbs (KG) 8"O.D. 1" Th	Min. Dia. (in)	Min. Th. (in)	Model No.	Lbs*	KG*	Length (in)	Weight (lbs)
AL0500	220 (100)	410 (186)	480 (218)	500 (227)	500 (227)	500 (227)	250 (113)	2	1/2	AL0500LUG	125	57	14-7/8	37
AL1000	290 (132)	590 (268)	670 (304)	1000 (454)	1000 (454)	1000 (454)	500 (226)	3	1/2	AL1000LUG	250	113	17-15/16	50
AL1500	340 (154)	670 (304)	770 (349)	1350 (612)	1500 (680)	1500 (680)	750 (340	4	1	AL1500LUG	375	170	18	86
AL2000	NA	NA	NA	1720 (780)	2000 (907)	2000 (907)	NA	5	2	AL2000LUG	500	227	22	108

*Note: Lift Capacity Based On 1" Minimum Material Thickness

NOTE: Working Load Limit (WLL) lifting values for the PowerLift® Magnets are stated at 33% of the actual value. We recommend when lifting sheets over 8', use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. Round Item Lifting Values are based on ideal conditions. Pipe length, wall thickness, diameter and surface condition can all affect the magnet's performance. Please consult the factory before specifying these magnets for use on round materials. *These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the

FX SERIES LIFTING MAGNETS

FX UNIVERSAL PERMANENT LIFTING MAGNETS FOR FLATS AND ROUND

The FX universal, On/Off permanent lift magnets are ideal for a variety of manufacturing applications where you're mostly lifting flat material, but occasionally need to lift rounds.

- On/off, Rare-Earth Permanent Magnet
- On/off handle only requires 90° rotation and locks at both on/off positions
- Durable, recessed metal name plates, not stickers
- Corrosion resistant, plated-magnet surface
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

Vertical Lift Lug Optional

	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
FX0330	330	150	4.9	6.3	2.3	2.5	4.75	5.3	0.4	1.6	1	8
FX0660	660	300	6.2	8	3	3.4	6.2	7.5	0.5	2	1.6	19
FX1320	1320	600	7.4	11.3	3.7	4.4	9.4	9	0.6	2.4	2	42
FX2200	2200	1000	9.4	14.2	4.7	6	12	10.2	0.8	3	2.3	93
FX4400	4400	2000	12.3	18.5	6.6	9	15.7	16.1	1	3.5	2.6	254
FX6600	6600	3000	12.3	25.5	6.6	9	22.7	21	1	3.5	2.6	366

Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due To Sag For Material Thickness For Single Magnet Use								Round Lifting Applications			Vertical Part Flat
Model No.	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	2 (10')	3 (10')	WLL RD	Min/Max Dia	Min Thk	WLL
FX0330	142 (65)	330 (150)	330 (150)	330 (150)	330 (150)	330 (150)	330 (150)	165 (75)	2 - 8	5/16	66 (30)
FX0660	355 (152)	507 (230)	580 (263)	660 (300)	660 (300)	660 (300)	660 (300)	330 (150)	2 - 12	1/2	132 (60)
FX1320	331(150)	661 (300)	965 (438)	1320 (599)	1320 (599)	1320 (599)	1320 (599)	660 (300)	4 - 16	5/8	264 (120)
FX2200	NA	772 (350)	1160 (526)	1984 (900)	2200 (998)	2200 (998)	2200 (998)	1100 (500)	4 - 18	3/4	440 (200)
FX4400	NA	NA	965 (438)	2200 (998)	2646 (1200)	4400 (1996)	4400 (1996)	2200 (998)	6 - 24	1-1/2	NA
FX6600	NA	NA	NA	3850 (1746)	3968 (1800)	6600 (2994)	6600 (2994)	3300 (1497)	6 - 24	1-1/2	NA

FXP PERMANENT LIFTING MAGNETS FOR THIN SHEETS AND PIPE

Ideal for thin sheets or parts, tanks/containers and thin-walled pipe that normally can't be lifted with a permanent, On/Off magnet. The magnetic field on the FXP is concentrated and shallow to drive the strength into thin material.

- On/off Rare Earth Permanent Magnet
- On/off handle only requires 90° rotation and locks at both on/off positions
- Recessed metal name plates, not stickers
- Corrosion resistant, plated-magnet surface
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

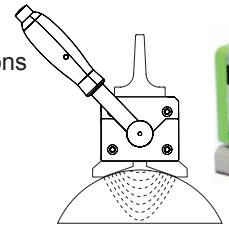
	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht.(in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
FXP0375	375	170	5.3	7.7	2.7	2.5	6.8	5.3	0.4	1.6	1	12
FXP0725	725	330	6.7	10.4	3.5	3.4	9.4	7.5	0.5	2	1.6	28
FXP1450	1450	650	8	13.8	4.2	4.4	12.6	9	0.6	2.4	2	58

Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due To Sag For Material Thickness For Single Magnet Use								Round Lifting Applications		
Model No.	9 ga (6')	3/16 (6')	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	WLL RD	Min/Max Dia	Min Thk
FXP0375	176 (80)	200 (91)	265 (120)	375 (170)	375 (170)	375 (170)	375 (170)	330 (150)	1 - 4	5/16
FXP0725	220 (100)	275 (125)	353 (160)	725 (329)	725 (329)	725 (329)	725 (329)	660 (300)	2 - 6.5	1/2
FXP1450	353 (160)	375 (170)	441 (200)	1060 (481)	1125 (510)	1450 (658)	1450 (658)	1210 (550)	3 - 9	5/8

FX SERIES LIFTING MAGNETS

FXR PERMANENT LIFTING MAGNETS FOR ROUND MATERIAL

We recommend the FXR for when you're mostly lifting round/curved surfaces such as shafts, thick walled pipe, or billet, but occasionally need to lift flat material. Specially designed pole shoes provide a deep penetrating magnetic field and part stability.



- On/off, Rare-Earth Permanent Magnet
- On/off handle only requires 90° rotation and locks at both on/off positions
- Durable, recessed metal name plates, not stickers
- Corrosion resistant, plated-magnet surface
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt.(lbs)
FXR0220	220	100	5.2	6.3	2.7	2.7	5.4	5.3	0.4	1.6	1	9
FXR0500	500	225	6.7	8	3.5	3.8	7.2	7.5	0.5	2	1.6	21
FXR1000	1000	450	8.1	11.3	4.4	4.9	10.2	9	0.6	2.4	2	49
FXR1650	1650	750	10.3	14.2	5.6	6.7	13	10.2	0.8	3	2.3	108
FXR2650	2650	1200	13.1	18.5	7.5	9.7	18.2	16.1	1	3.5	2.6	280
FXR4000	4000	1800	13.1	25.5	7.5	9.7	24.1	21	1	3.5	2.6	402

Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due To Sag For Material Thickness For Single Magnet Use								Round Lifting Applications		
Model No.	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	2 (10')	3 (10')	WLL RD	Min/Max Dia	Min Thk
FXR0220	154 (70)	220 (100)	220 (100)	220 (100)	220 (100)	220 (100)	220 (100)	220 (100)	1 - 6	5/16
FXR0500	310 (141)	500 (227)	500 (227)	500 (227)	500 (227)	500 (227)	500 (227)	500 (225)	2 - 8	3/8
FXR1000	331 (150)	661 (300)	780 (354)	1000 (454)	1000 (454)	1000 (454)	1000 (454)	1000 (450)	2 - 11	3/4
FXR1650	NA	882 (400)	1200 (544)	1650 (748)	1650 (748)	1650 (748)	1650 (748)	1650 (750)	3 - 15	3/4
FXR2650	NA	450 (204)	900 (408)	1764 (800)	2205 (1000)	2650 (1202)	2650 (1202)	2650 (1200)	5 - 22	1-1/2
FXR4000	NA	NA	1250 (567)	2646 (1200)	3307 (1500)	4000 (1814)	4000 (1814)	4000 (1800)	5 - 22	1-1/2

FXV PERMANENT LIFTING MAGNETS FOR BEAMS, ANGLE IRON (90*) AND HOT PARTS

The FXV On/Off permanent lift magnets are ideal for handling 90° shapes like angle iron, square tubing, and hot parts. Also works extremely well for inside webbing of I-beams where you need higher handle rotation. The on/off handle only requires 90° rotation and locks at both on/off positions. Durable construction with recessed metal name plates and corrosion-resistant plated magnet surface. Features a 3:1 design factor and meets 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3.

Hot part Handling: contact time and cooling times

302°F (150°C) = 100%
392°F (200°C) = 50%, Max. 4 minutes contact, 4 minutes cooling time
482°F (250°C) = 33%, Max. 4 minutes contact, 8 minutes cooling time
(Note: WLL reduces as temperature raises)

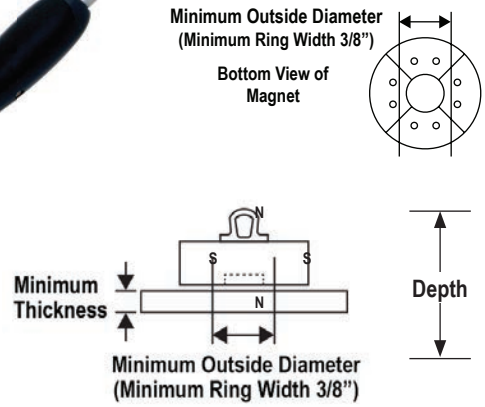
	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
FXV0440	440	220	5.5	7.7	3	2.5	6.8	5.3	0.4	1.6	1	12
FXV0880	880	440	6.9	10.4	3.8	3.4	9.4	7.5	0.5	2	1.6	29
FXV1775	1775	800	8.3	13.5	4.5	4.4	12.6	9	0.6	2.4	2	62

FLAT SURFACES						ANGLE IRON LEGS DOWN (^) ANGLE LEGS UP (v)									
Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due To Sag For Material Thickness For Single Magnet Use							^	v	^	v	^	v	^	v	^	v
Model No.	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	Model No.	1/4 (6')	1/4 (6')	3/8 (8')	3/8 (8')	1/2 (8')	1/2 (8')	3/4 (8')	3/4 (8')	1 (14')	1 (14')
FXV0440	270 (125)	415 (190)	440 (200)	440 (200)	440 (200)	FXV0440	260 (120)	100 (50)	260 (120)	175 (80)	260 (120)	220 (100)	260 (120)	220 (100)	260 (120)	220 (100)
FXV0880	440 (200)	695 (320)	810 (370)	880 (400)	880 (400)	FXV0880	440 (200)	270 (125)	495 (225)	275 (125)	550 (250)	385 (175)	550 (250)	440 (200)	550 (250)	440 (200)
FXV1775	440 (200)	935 (450)	1150 (550)	1775 (800)	1775 (800)	FXV1775	485 (220)	300 (140)	650 (300)	325 (150)	815 (375)	500 (230)	870 (400)	650 (300)	870 (400)	650 (300)

FX SERIES LIFTING MAGNETS

FXC PERMANENT LIFTING MAGNETS FOR FLAT, CIRCULAR PARTS

The FXC lift magnets have a round, multi-pole magnetic field designed for lifting flat, circular-shaped parts such as rings, sleeves, bearing housings, flange plates and end of billet/pipe/shaft pieces. The on/off handle only requires 90° rotation and locks at both on/off positions. Durable construction with metal name plates and corrosion-resistant plated magnet surface. Features a 3:1 design factor and meets 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3.



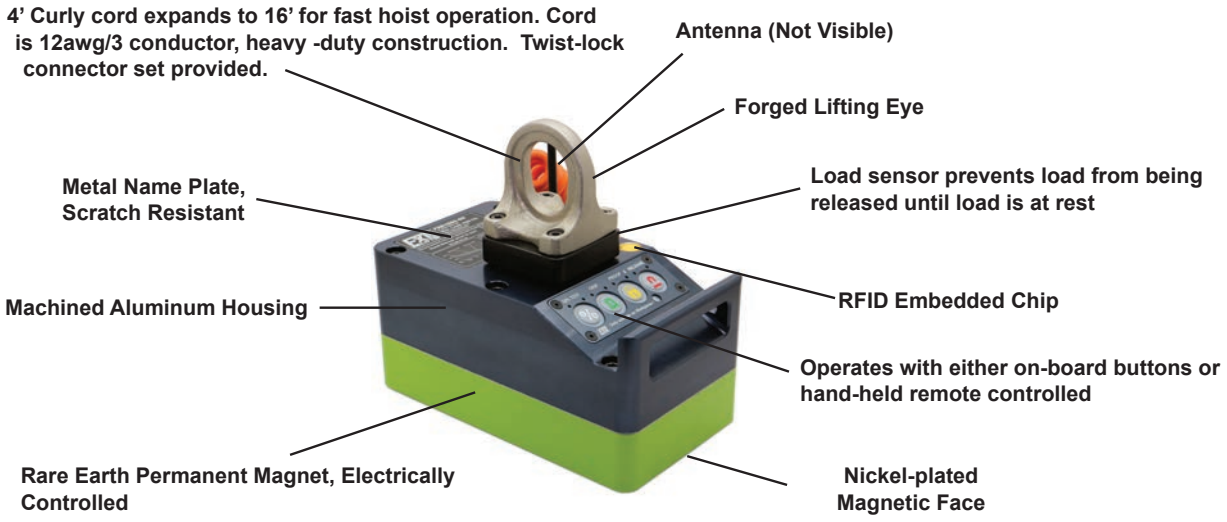
	WLL		WLL	WLL	Overall		Depth	Magnet		Handle	Bail			
Model No.	LBS	KG	Min Thk (in)	Min Dia (in)	Ht. (in)	Dia. (in)	Ht. (in)	Ht. (in)	Dia. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
FXC0385	385	175	0.39	2.4	8.3	4.7	5	5.1	4.5	7.5	0.5	2	1.6	17
FXC0550	550	250	0.47	3.3	9.5	6.3	5.8	5.7	6	7.5	0.6	2.4	2	33
FXC0990	990	450	0.59	4.7	11.2	9.4	6.5	6.1	9.3	9	0.8	3	2.3	77

FXC PERMANENT LIFTING MAGNETS ELECTRONICALLY CONTROLLED

FXE lift magnets allow the operator to pick-up ferrous metal sheets/parts and safely release with the push of a button. Combining the cost-efficiency and safety of a permanent magnet for load handling with the controlled-release capability of an electromagnet, the FXE uses virtually no energy and does not require a battery backup system. A built-in load sensor prevents the load from being released until it's at rest, and the fail-safe permanent magnet design securely holds the load in the event power is lost. Ideal for lifting applications that require fast cycle times without the operator touching the load. Grip and release functions can be performed by using the wireless remote control or can be activated directly from the magnet's on-board control buttons. All labels and controls are on top of the magnet allowing the magnet to fit into tight spots and limit damage to critical equipment. Temperature Range: 180°F (82°C)

Quick Reference

50 Series: Smooth surfaces • Smaller parts • Cutting table loading/unloading • Thinner metals
50L Series: Smooth Surfaces • Long narrow parts • C channel • I-Beam • Square tubbing
80 Series: Hot rolled steel • Black material • Flame cut • Shipyards • Thicker metals than 50 Series
100 Series: Rough surfaces • Casting • Forging • Slabs • Thick, heavy, large metals



FXE SERIES LIFTING MAGNETS

FXE LIFTING MAGNET • 50 SERIES

The FXE50 Series Permanent Lifting Magnet is designed with the strength and reach-out required for lifting thinner, smooth-surfaced material in applications such as the loading and unloading of cutting tables. Ideal for smaller part handling in repetitive lifting applications, this durable magnet is constructed for many years of industrial use. **480 VAC single phase power supply required @ up to 7.5 amps, 0.8 second pulse**

• 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

FXE0660-50

FXE1650-50

FXE3525-50

50 Series	WLL		Magnet		Overall			Poles	Bail Opening			Weight
Model No.	LBS	KG	Ln. (in)	Wd. (in)	Ln. (in)	Wd. (in)	Ht. (in)	No. of Poles	Th. (in)	Ht. (in)	Wd. (in)	lbs (kg)
FXE0660-50	660	300	4.6	4.6	6.5	6.5	16.5	4	0.6	1.7	1.3	51 (23)
FXE1650-50	1650	750	9.6	4.6	11.7	6.5	9.8	8	0.6	3	2.4	60 (27)
FXE3525-50	3525	1600	22.2	4.6	24.4	6.5	10.6	18	0.8	3	2.4	124 (56)

Working Load Limit (WLL) in lbs (kg) & Max sheet size Due To Sag For Material Thickness For Single Magnet Use										
Model No.	5/32 (4mm)	Sheet LxW	1/4 (6mm)	Sheet LxW	5/16 (8mm)	Sheet LxW	3/8 (10mm)	Sheet LxW	1/2 (15mm)	Sheet LxW
FXE0660-50	154 (70)	71" x 59"	309 (140)	79" x 59"	440 (200)	79" x 59"	617 (280)	79" x 59"	660 (299)	79" x 59"
FXE1650-50	330 (150)	71" x 59"	551 (250)	79" x 59"	882 (400)	79" x 59"	1323 (600)	79" x 59"	1650 (748)	79" x 59"
FXE3525-50	661 (300)	118" x 59"	1102 (500)	118" x 59"	1764 (800)	118" x 59"	3087 (1400)	118" x 59"	3525 (1599)	118" x 59"

FXE LIFTING MAGNET • 50L SERIES

The FXE50L Series Permanent Lifting Magnet is designed with the strength and reach-out required for lifting thinner, smooth-surfaced material in applications lifting long narrow products such as C-Channel, I-Beams or square tubing. Ideal for smaller/narrow part handling in repetitive lifting applications. Can use the side of the magnet to rotate or tip parts to the ideal lifting surface or orientation. **480 VAC single phase power supply required @ up to 7.5 amps, 0.8 second pulse**

• 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

FXE0880-50L

FXE1320-50L

FXE2200-50L

80 Series	WLL		Magnet		Overall			Poles	Bail Opening			Weight
Model No.	LBS	KG	Ln. (in)	Wd. (in)	Ln. (in)	Wd. (in)	Ht. (in)	No. of Poles	Th. (in)	Ht. (in)	Wd. (in)	lbs (kg)
FXE0880-50L	880	400	9.5	2	11.5	3.75	17.75	4				51 (23)
FXE1320-50L	1320	6000	14.6	2	16.5	3.75	17.75	8				68 (31)
FXE2200-50L	2200	1000	24.7	2	26.8	3.75	17.75	10				97 (44)

Working Load Limit (WLL) in lbs (kg) & Max sheet size Due To Sag For Material Thickness For Single Magnet Use										
Model No.	5/16 (8mm)	Sheet LxW	3/8 (10mm)	Sheet LxW	1/2 (15mm)	Sheet LxW	3/4 (20mm)	Sheet LxW	1 (25mm)	Sheet LxW
FXE0880-50L	154 (70)	71" x 39"	309 (140)	79" x 59"	440 (200)	79" x 39"	550 (250)	98" x 39"	880 (400)	118" x 39"
FXE1320-50L	220 (100)	79" x 39"	440 (200)	98" x 39"	660 (300)	98" x 39"	770 (350)	118" x 39"	1320 (600)	157" x 39"
FXE2200-50L	330 (150)	98" x 59"	660 (300)	118" x 59"	880 (400)	118" x 39"	1100 (500)	157" x 59"	2200 (1000)	196" x 59"

FXE SERIES LIFTING MAGNETS

FXE LIFTING MAGNET • 80 SERIES

The FXE80 Series Permanent Lifting Magnet has great strength for lifting heavier material in applications typically seen in shipyard or heavy equipment manufacturing. Ideal for handling black material, flame-cut, or hot-rolled steel, this durable magnet is constructed for many years of industrial use. **480 VAC single phase power supply required @ up to 10 amps, 0.8 second pulse**

- 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

FXE2200-80

FXE5500-80

FXE8800-80

80 Series	WLL		Magnet		Overall			Poles	Bail Opening			Weight
Model No.	LBS	KG	Ln. (in)	Wd. (in)	Ln. (in)	Wd. (in)	Ht. (in)	No. of Poles	Th. (in)	Ht. (in)	Wd. (in)	lbs (kg)
FXE2200-80	2200	1000	6.8	6.8	9	9.0	11.6	4	1.2	3	2.4	86 (39)
FXE5500-80	5500	2500	17.6	6.8	20	9.0	11.6	10	1.2	3.5	2.7	170 (77)
FXE8800-80	8800	4000	28.5	6.8	30.8	9.0	11.6	16	0.9	7.9	5.5	291 (132)

Working Load Limit (WLL) in lbs (kg) & Max sheet size Due To Sag For Material Thickness For Single Magnet Use										
Model No.	5/16 (8mm)	Sheet LxW	3/8 (10mm)	Sheet LxW	1/2 (15mm)	Sheet LxW	3/4 (20mm)	Sheet LxW	1 (25mm)	Sheet LxW
FXE2200-80	440 (200)	79" x 59"	660 (300)	79" x 59"	1320 (600)	79" x 59"	1760 (800)	79" x 59"	2200 (1000)	79" x 59"
FXE5500-80	1100 (500)	79" x 59"	1650 (750)	118" x 59"	3300 (1500)	118" x 59"	4400 (2000)	118" x 59"	5500 (2495)	118" x 59"
FXE8800-80	1765 (800)	118" x 59"	2650 (1200)	118" x 59"	5290 (2400)	118" x 59"	6600 (3000)	157" x 59"	8800 (3992)	157" x 59"

FXE LIFTING MAGNET • 100 SERIES

The 100 Series Permanent Lifting Magnet has tremendous strength and reach-out for lifting heavier, rough material. Ideal for handling foundry-made or rough-surfaced parts, such as castings, forgings or large slab steel. Durable construction for many years of industrial use. **480 VAC single phase power supply required @ up to 33 amps, 0.8 second pulse**

- 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

FXE3525-100

FXE7000-100

FXE10600-100

100 Series	WLL		Magnet		Overall			Poles	Bail Opening			Weight
Model No.	LBS	KG	Ln. (in)	Wd. (in)	Ln. (in)	Wd. (in)	Ht. (in)	No. of Poles	Th. (in)	Ht. (in)	Wd. (in)	lbs (kg)
FXE3525-100	3525	1600	8.7	8.7	11.7	11.7	13.6	4	1.2	3.5	2.7	181 (82)
FXE7000-100	7000	3200	18.1	8.7	21.1	11.7	13.2	8	1.2	3.5	2.7	340 (154)
FXE10600-100	10600	4800	27.6	8.7	30.6	11.7	15.8	12	0.9	7.9	5.5	445 (202)

Working Load Limit (WLL) in lbs (kg) & Max sheet size Due To Sag For Material Thickness For Single Magnet Use										
Model No.	3/8 (10mm)	Sheet LxW	1/2 (15mm)	Sheet LxW	3/4 (20mm)	Sheet LxW	1 (25mm)	Sheet LxW	1-3/8 (35mm)	Sheet LxW
FXE3525-100	880 (400)	79" x 59"	1650 (750)	79" x 59"	2200 (1000)	79" x 59"	3300 (1500)	118" x 59"	3527 (1600)	118" x 59"
FXE7000-100	1760 (800)	118" x 59"	3200 (1470)	118" x 59"	4850 (2200)	118" x 79"	6125 (2780)	118" x 79"	7000 (3200)	157" x 98"
FXE10600-100	2650 (1200)	118" x 59"	4850 (2200)	157" x 79"	6600 (3000)	158" x 79"	9250 (4200)	157" x 79"	10,600 (4800)	157" x 79"

WALKER LIFTING MAGNETS

BUXF BATTERY LIFT MAGNET

For Flat Material

Hold - lbs	Length (in)	Width (in)	Weight (lbs)	Model No.
3000	16.3	8.5	200	BUXF03000
5500	21	9.6	290	BUXF05500
8000	48	9.6	580	BUXF08000
11000	60	12	700	BUXF11000

BUXR BATTERY LIFT MAGNET

For Flat, Round and Shaped Material

Rated Lift* (lbs)					
Plate	Rounds	Length (in)	Width (in)	Weight (lbs)	Model No.
1665	1665	18.5	9.5	410	BUXR01665
3330	3330	30	10.5	775	BUXR03330

Consult Operator's Manual, Safety Instructions & Lifting Guidelines for detailed ratings

NEO SERIES LIFT MAGNET

Rated Lift* (lbs)			
Plate	Rounds	Weight (lbs)	Model No.
275	50	6	NEO-125
550	275	22	NEO-250
1100	550	42	NEO-500
2200	1100	80	NEO-1000
3300	1640	148	NEO-1500
4400	2200	198	NEO-2000

*Performance ratings on AISI 1020 steel

CER ELECTRIC LIFT MAGNET

Rated Lift* (lbs)	Watts	Weight (lbs)	Model No.
600	92	22	CER05
1200	135	41	CER07
2400	208	90	CER09
4000	420	140	CER12
7250	495	340	CER16
10500	1050	575	CER20

*Performance ratings on AISI 1020 steel.
Power required at 115/1/60 supply (watts)

NEO-HV SERIES

For vertical loading onto machining centers & lathes

Rated Lift (lbs)	Plate Width (in)	Plate Length (in)	Plate Th. (in)	Length (in)	Weight (lbs)	Model No.
550	11.8-31.5	8-60	.25-5.9	38	60	NEO-HV250
1100	11.8-39.4	12-72	.31-9.8	46	86	NEO-HV500
2200	11.8-39.4	12.5-79	.39-11.8	48	158	NEO-HV1000

MAG-MATE® iXTUR LIFTING MAGNET & LOAD CONTROL

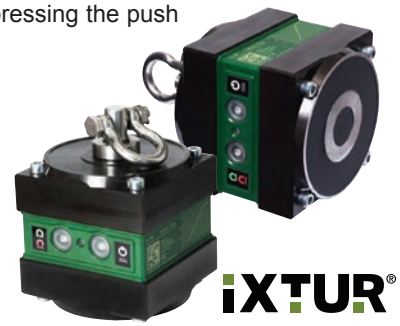
AUTOMATIC LIFTING MAGNET

Innovative, compact and user-friendly, this magnetic lifting equipment features a strong permanent magnet that is switched between the “ON” and “OFF” states with an electrical pulse.

This permanent lift magnet uses an electronic impulse ONLY to change the magnet from on to off and vice-versa. No electrical power is used during the lifting process. The result of this technology is safe and reliable lifting with long and efficient operation without interruption - over one thousand lifts with one complete, 2 hour battery charge!

The real beauty of this magnet is that it is fully automatic - no user interface is required to turn the magnet ON or OFF. The secret lies in the built-in load-sensing system. This unique feature utilizes a self-adjusting shaft that turns the magnet ON or OFF every time it completes a cycle. When the magnet is set down on a load, the shaft goes down, which engages the magnet. The magnet turns “ON” and stays "ON" until the load is set back down, whereby the shaft goes down and turns the magnet “OFF”. The operator also has the option to manually control the magnet by pressing the push buttons located on the side of the unit.

Features
- Rare Earth Permanent magnet
- Automatic controlled ON/OFF
- Operating Temp: 32°F to 122°F
- Internal chargeable battery for switching
- Fast cycle times
- Over one thousand lifts with one complete battery charge
- 3:1 design factor
- 3/8" or thicker does not double blank



	Working Load Limit (WLL)		Overall			Bail			
Model No.	WLL (lbs)	WLL (kg)	Height (in)	Width (in)	Length (in)	Thickness (in)	Height (in)	Width (in)	Weight (lbs)
LI-120ALM	265	120	7.87	4.92	4.92	3/8	1-1/4	1-1/4	14.3

Working Load Limit in lbs (kg) & *Max Sheet Length Due To Sag For Material Thickness For Single Magnet Use						
Model No.	3/16” (6’ Length)	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	1" (10' Length)	3" (10' Length)
LI-120ALM	78 (35)	111 (50)	232 (105)	265 (120)	265 (120)	265 (120)

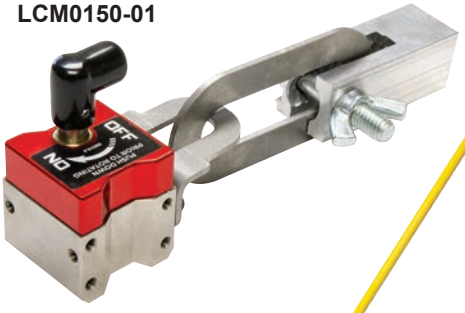
NOTE: Lifting Values for the Ixtur® Automatic Lift Magnet are stated at 33% of the actual value. We recommend when lifting sheets over 8’, use 2 or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once. *These maximum sheet lengths are selected due to the sag characteristics of the specified sheet. The item to be lifted must cover the entire length and width of the magnetic poles to properly engage and release the part.

LOAD CONTROL MAGNET

Stay safe. This extremely powerful On/Off Permanent Rare Earth magnet lets you guide loads into position without being in close proximity. Attach the On/Off permanent magnet to a corner or along the side of your load. As the load is lifted, the Load Control Magnet’s articulating connection to the lightweight telescoping pole allows you to control and position the load exactly where you want without endangering yourself, others or expensive equipment, should your lifting device fail.

Features
- Powerful On/Off Rare Earth Magnet
- Works on Flat and Pipe
- Pole telescopes from 6’ to 12’
- Buy the magnet separately, use your own pole

LCM0150-01



LCM0150-02

Hold - lbs (kg)	Pole Included	Length (in)	Extended Length (in)	Weight (lbs)	Model No.
150 (68.04)	No	7	N/A	1.20	LCM0150-01
150 (68.04)	Yes	80	147	2.70	LCM0150-02
450 (204.12)	No	8.50	N/A	4.70	LCM0450-01
450 (204.12)	Yes	83	150	6.20	LCM0450-02
1000 (453.60)	No	9.75	N/A	10.95	LCM1000-01
1000 (453.60)	Yes	87.25	151.25	12.45	LCM1000-02

Note: Magnet connector accepts a standard paint roller handle extension thread.

WALKER HEAVY LIFTING

COILMASTER STEEL MILL MAGNETS

- Eye-vertical and eye-horizontal coil handling

CUTTING TABLE MAGNETS

- Special material handling needs required in precision flame, plasma, and laser cutting table operations.
- Loading plate and then after cutting, unload cut parts and skeleton in one step.
- Parts can also be separated from the skeleton to improve the sorting process.

CE ELECTROMAGNETS

In-plant or outdoor handling of steel plate, flat stock, castings, forgings, or machined components in all types of industrial plants, machine shops, and steel warehouses.

RL RECTANGULAR MAGNETS

Walker Rectangular Lift RL Magnets are designed to lift plates of all sizes.Electro-permanent magnets, CE-Series, Cer-Series, NEO-Series, and WBM-Series are also available for plate lifting.

- Ship Yards
- Metal Working
- Service Centers
- Cutting Table Operations
- Shipping and Receiving
- Fabricating Areas

BI-POLAR SERIES LIFTING MAGNETS

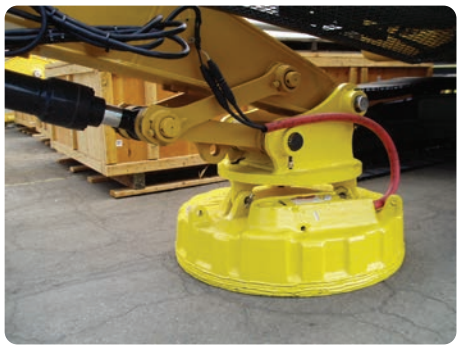
Handling of bundles of pipe, tubing, rebar, bar stock, plate, structural shapes, castings, forgings, and coiled strips

WALKER SCRAP MAGNETS

SCRAP MASTER D MAGNETS

- Steel Mill Operations
- Foundry Operations
- Scrap Yard Processing
- Waste Processing
- Crop Pit Applications
- Under Water Applications
- Burn Table Applications
- Manufacturing Scrap Waste Handling
- Fabrication Scrap Waste Handling
- Demolition Clean Up
- *Hot Works Available

LIFTMASTER MAGNETS



- Scrap Yard Processing
- Waste Processing
- Crop Pit Applications
- Under Water Applications
- Burn Table Applications
- Manufacturing Scrap Waste Handling
- Fabrication Scrap Waste Handling
- Demolition Clean Up

RLSD SERIES STEEL MILL MAGNETS

- Scrap Processing
- Rail Car loading/unloading
- Barge loading/unloading

R-SERIES (RADIATION DETECTION) MAGNETS

Detection of radiation within scrap materials

SPREADER BEAMS

When lifting large steel shapes, such as off-center loads, round, rectangular or long items (I-beams), one lift magnet may not be enough. IMI's Spreader Beams allow two magnets to be used at one time with only one lifting source. Magnets on a Spreader Beam keep your product level, reducing the height required to lift the load, providing a safer lift environment while reducing the time needed to move the load.

SBI Series Features
- Low cost spreader beams
- One-piece construction
- Fork lift pockets
- Multiple spreads plus center hole

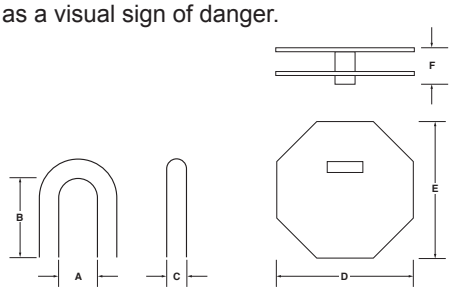
SBC Series Features
- Beams 3' to 4' have 2 spreads
- Beams 6' to 10' have 3 spreads
- Swivel hooks with latches
- Designed and manufactured to ASME B30.20

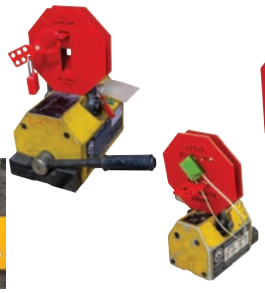
Request Tech Sheet MG-02F

LIFTING BAIL LOCK-OUT

Lifting bail lock-out prevents almost any lifting equipment from being used if it is deemed "out-of-service." This lock-out device fits around the lifting point to prevent a crane hook from entering. No more wire paper tag-outs that get ignored. Protect employees and equipment from lifting a below-the-hook lifting device deemed unsafe. Block the liting bail on magnets, spreader beams, pad eyes, hoist rings, clevis, bridle leg slings, chain slings, shackles, anything with a lift point. Use your own paddle lock, lock-out hasp or wire zip tie to secure the lock-out to the lift point. Shaped like a stop sign and powder coated red as a visual sign of danger.

LBL01





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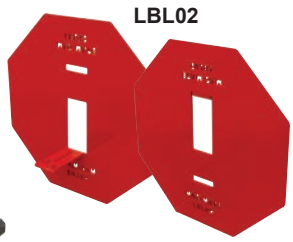
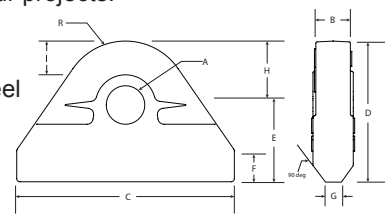


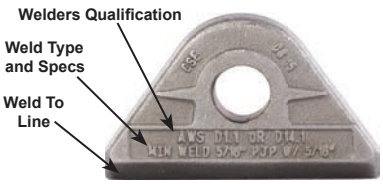
A		B		C	D	E	F		
Min/Max (in)		Min/Max (in)		Max (in)	Wd. (in)	Ht. (in)	Th. (in)	Wt. (lb)	Model No.
1	2-1/2	1-5/8	3-7/8	1-3/8	3-7/8	3-7/8	2	0.70	LBL01
1	5-7/8	5-7/8	8	2	8	8	2-3/8	3.10	LBL02

WELD-ON PADEYES

Engineered and certified to meet all ASME BTH-1 categories and classes. Eliminate the need and time to engineer, fabricate, machine and certify lifting padeyes. By purchasing these one-of-a-kind padeyes, you can have them on the shelf ready to weld and speed up delivery, testing and approval of your projects.

Features
- Hole is reamed to fit shackle pin/bolt ± 0.01"
- Weldable A36 Carbon Steel or 316 Stainless Steel
- Weld Spec and Weld Line on Padeye
- Date Coded
- Engineered and Certified





WLL (Tons)	Shackle Size (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)	R (in)	Weight (lbs)	Minimum Weld	Carbon Steel Model No.	Stainless Steel Model No.
1/2	1/4	21/64	11/32	2-7/64	1-3/8	3/4	5/16	N/A	5/8	7/16	5/8	0.20	0.188"	PE0050	PE0050S
1	3/8	15/32	9/16	2-7/16	1-5/8	7/8	3/8	N/A	3/4	1/2	3/4	0.40	1/4"	PE0100	PE0100S
1-1/2	7/16	17/32	5/8	2-3/4	1-9/16	7/8	1/4	7/32	11/16	13/32	11/16	0.40	3/16 PJP with 3/16" Fillet	PE0150	PE0150S
2	1/2	43/64	11/16	3-1/4	2-1/8	1-1/8	7/16	5/32	1	21/32	1	0.80	1/4 PJP with 1/4" Fillet	PE0200	PE0200S
4-3/4	3/4	15/16	1-1/8	4-7/16	2-5/8	1-7/16	1/2	15/32	1-1/4	25/32	1-1/4	2.20	5/16 PJP with 5/16" Fillet	PE0475	PE0475S
6-1/2	7/8	1-1/16	1-5/16	5-3/16	2-15/16	1-5/8	1/2	3/8	1-5/16	25/32	1-5/16	3.05	7/16 PJP with 7/16" Fillet	PE0650	PE0650S

WLL = Working Load Limit

Request Tech Sheet MG-08A

MANHOLE COVER LIFT DOLLY SYSTEM, MANHOLE COVER LIFT SYSTEM

USA M.A.D.E.

Easily move heavy manhole covers up to 400 lbs. without worrying about your fingers, toes and back. This cover lift system uses a unique adjustable four-position hook with a four-length retractable handle for terrific leverage, even in tight spots. The three angle positions (90°, 105° and 120°) let you adjust the system for any lifting situation. The safety latch hook makes grabbing the magnet or spreader bar a one-person job.

Choose from steel or aluminum manhole dollies. Dollies include your choice of heavy-duty 6", 10" or 12" diameter wheels. The dolly folds up and handle breaks down for easy storage. When fully extended, the handle length is 64"; when folded and collapsed down it is 41" long.

- Reduce lost time injuries caused by handling covers
- Minimize stress & strain on your body—system does the heavy work for you
- Retractable four-length handle gives maximum leverage from any angle
- Ideal for survey crews, handle breaks down for easy storage & transportation
- Makes moving covers fast, easy and a one-person operation

It doesn't matter if you are 5'6" or 6'5", the MCL Dolly can be adjusted to ergonomically accommodate any user.

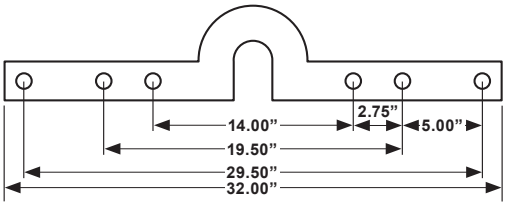
MCL3W06VL0600

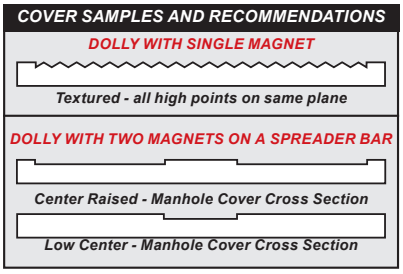
Several magnet and hook configurations are available for use with your dolly

Use each dolly with either a single magnet in the center of the manhole cover, or with two magnets and a spreader bar (magnets and spreader bar sold separately). When using two magnets on a spreader bar, the load is more balanced—ideal for large covers or heavily textured surfaces. The spreader bar has three location holes so you can place the magnets where you gain the best magnet-to-steel-ratio. A sample of common On/Off Locking Rare Earth magnet choices are listed in the table below. Contact us to for more information on other magnet options.

The optional cover lift Dolly Extension Hook lets you lift very large diameter manhole covers that might otherwise interfere with proper dolly operation. Use on covers up to 54" for 6" wheeled dollies, 50" for 10" wheeled dollies or 48" for 12" wheeled dollies.

Manhole Cover Lift Spreader Bar Specifications





Manhole Cover up to 26" dia. - Magnet & Dolly Combo		
Model No.	**Description**	**Weight (lbs)**
MCL2W06PNL0800	Steel Dolly with 6" Wheels and PowerLift Magnet	46 + 21
MCL2W12PNL0800	Steel Dolly with 12" Wheels and PowerLift Magnet	52 + 21
MCL3W06VL0600	Aluminum Dolly with 6" Wheels and VersaLift Magnet	29 + 20
MCL3W12VL0600	Aluminum Dolly with 12" Wheels and VersaLift Magnet	34 + 20
30"-35" dia. Manhole Covers & Trench Grates - Magnet & Dolly Combo		
MCL2W06PNL1600	Steel Dolly with 6" Wheels and PowerLift Magnet	46 + 51
MCL2W12PNL1600	Steel Dolly with 12" Wheels and PowerLift Magnet	52 + 51
MCL3W06VL1200	Aluminum Dolly with 6" Wheels and VersaLift Magnet	29 + 37
MCL3W12VL1200	Aluminum Dolly with 12" Wheels and VersaLift Magnet	34 + 37
For 36" and greater dia. Manhole Covers or Grates, Vented Lids, Heavily Textured Surfaces a Dolly, plus a Spreader Bar with (2) magnets from menu below, i.e. MCL200W06 + MCL660X2		
Dollies Only		
MCL2000W06	Dolly, Steel, 6" Wheels	46
MCL2000W10	Dolly, Steel, 10" Wheels	52
MCL2000W12	Dolly, Steel, 12" All-Terrain Wheels	52
MCL3000W06	Dolly, Aluminum, 6" Wheels	29
MCL3000W10	Dolly, Aluminum, 10" Wheels	34
MCL3000W12	Dolly, Aluminum, 12" All-Terrain Wheels	34
Magnet Options		
MCL660X2	Spreader Bar with (2) PNL0800 Magnets	49
MCL600X2	Spreader Bar with (2) Premium VL0600 Magnets	47
PNL0800	Powerlift® Magnet only, 800 lbs Rating	21
PNL1600	Powerlift® Magnet only,1600 lbs Rating	51
VL0600	VersaLift™ Premium Lightweight Rare Earth Lift Magnet, 600 lb Rating	20
VL1200	VersaLift™ Premium Lightweight Rare Earth Lift Magnet, 1200 lb Rating	37
Accessories		
MCLWC18X16	Wheel Chocks 18" x 16"	17.5
MCLHOOKEXT	Dolly Hook Extension for Manhole Covers up to 48"	3

MCL3000W06 w/ PNL1600

MCL3000W06 w/ MCL660X2

MCL3000W06 w/ PNL1600

MANHOLE COVER LIFT PRODUCTS

HD MANHOLE COVER LIFT SYSTEM

The Heavy Duty (HD) manhole cover lift dolly and Magnet & Dolly Combination system take several key features of our regular manhole cover lift system and adds an extra telescoping handle, giving you more leverage when lifting manhole covers.

Description	Wt. (lbs)	Model No.
Steel dolly, 12” Wheels, Hook Extension, 3pc telescoping Handle	58	MCL2000W12HD
All the above plus a PNL1600 On/Off PowerLift® magnet	58 + 51	MCL2W12HDPNL16

COMPACT LID REMOVER

Magnetic lid remover offers a lightweight and compact, one-piece design that is easy to use, store and transport. Harnessing the forces of magnetism and leverage, users can easily remove and replace manhole lids up to 450 lbs. The bright yellow unit is easy to spot and features two powerful, Rare Earth permanent magnets.

To operate, remove the protective guard from the magnet, and carefully place the unit on the edge of the manhole cover. Make sure the leverage bar is on a solid surface (road). Push down on the handle to raise the lid from the manhole and pull backwards to clear the lid from the hole. The magnet is freed from the lid by moving the handle over the magnets in the opposite direction.

Features
- Powerful Rare Earth Magnets
- Durable Stainless/Aluminum Construction
- Rubber Grip T-Handle
- Magnet storage guard when not in use
- No assembly required

Description	Wt. (lbs)	Model No.
One-Piece, T-Handle, Two Magnets, 36" Tall, 12" Wide	25	MCL450

THE SPIDER MANHOLE COVER LIFT

Features
- Lifts up to 5' diameter/length
- Up to 2000 lbs. (908 kg) lifting capacity
- Folds up for storage
- Two stationary wheels and one steering

COMING SOON

MAG-MATE® MANHOLE COVER LIFT PRODUCTS

POWERARM™ - VEHICLE MOUNTED

The Manhole PowerArm™ makes lifting and replacing manhole covers the most ergonomic. Great for repetitive access like survey/cleaning crews. Electric Hoist: drive within 3 feet of the center of the lid and let the "Arm" adjust to your location. This "Arm" has a 3-foot, 180° swing radius that allows the positioning of the magnet to the center of the manhole cover. Manual Hoist: Use backup camara to get as close to center as possible. Both "Arms" have 400 lbs. lifting capacity, fit into a standard 2" square receiver hitch and are constructed of welded tubular steel. (Rare Earth Magnet sold separately).

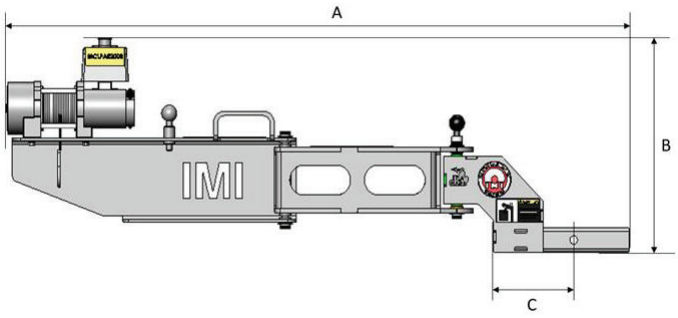
Use PowerArm™ to lower items such as camera tractors, large sewer nozzles, pipe plugs, etc.

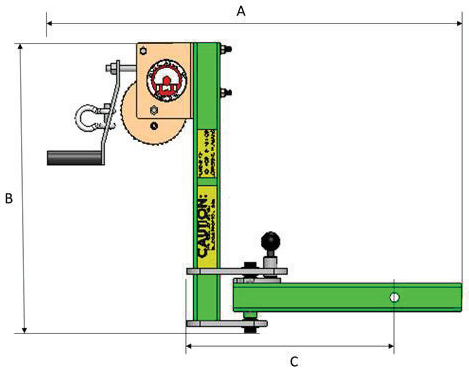
ELECTRIC HOIST SPECIFICATIONS:

- 55 AMP, 12 VDC with power-up & power-down control, removable
- 16' remote control cord and a 20' galvanized cable with latch hook
- Provided with a 2-Pole DC power connector, heavy-gauge 13' long lead to connect hoist to vehicle battery (+) positive terminal and 6' long ground cable to connect to vehicle frame

MANUAL HOIST SPECIFICATIONS:

- Worm Gear hoist that will hold load when handle is released
- Polyester strap with Zinc-plated hook & safety latch
- Remove hoist, insert sideways for tailgate access, storage, and travel





Winch Type	A (in)	B (in)	C (in)	Weight (lbs)	Model No.
Electric	56-3/8	17-13/16	7-1/4	87	MCLPAE2000
Manual	30-7/8	20-1/2	20-13/16	30	MCLPAM1000

ON/OFF MAGNETIC UTILITY LIFTER

Stop bending over to lift and remove cast iron utility and valve box covers!

Reduce finger and toe injuries with this lightweight deep reach switchable permanent magnetic lifter. The magnetic field penetrates textured surfaces of lids and allows the operator to ergonomically lift the casting out of the way.

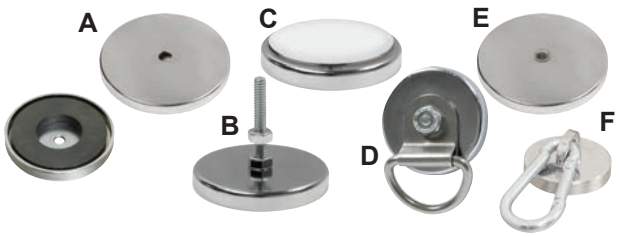
This Magnetic Utility Lifter has a locking On/Off handle for safety and makes removing covers quick and easy.

Lift - lbs (kg)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
50.0 (22.68)	28-1/2	5-1/2	3-1/2	7.65	MCLVB01
75.0 (34.02)	28-1/2	7	5	14.25	MCLVB02

PLATED CUP MAGNET ASSEMBLIES

Secure tarps, cables, wires, signs and more to any steel surface, including overhead beams, ceiling decks, drop ceiling channels and metal joists. These cup magnet assemblies are quickly installed and repositioned.

Note: **Ceramic** cup magnets are heat resistant < 300°F (148°C) ± .030" all dimensions. **Rare Earth** cup magnets are heat resistant up to < 180°F (82°C). Cup magnet (base) ±.015" diameter, ±.010" thickness, through holes ± .005". **MX0984R** ± .015" all dimensions.



Style	Max - lbs (kg)	Description	Magnet	O.D. (in)	Through Hole (in)	Rec. Mounting Screw	Magnet I.D. (in)	OAH (in)	Wt. (lbs)	Model No.
A	23.0 (10.43)	Low Profile Cup	Rare Earth	0.79	0.177	8-32	0.32	0.275	0.04	MX0787R
A	30.0 (13.69)	Low Profile Cup	Rare Earth	0.98	0.216	10-32	0.35	0.315	0.05	MX0984R
A	15.0 (6.80)	Low Profile Cup	Ceramic	1.24	0.156	6-32	0.25	0.188	0.03	MX1000
A	36.0 (16.33)	Low Profile Cup	Rare Earth	1.24	0.125	4-40	0.25	0.188	0.03	MX1000R
A	25.0 (11.34)	Low Profile Cup	Ceramic	1.41	0.188	8-32	0.375	0.281	0.05	MX1500
A	51.0 (23.13)	Low Profile Cup	Rare Earth	1.41	0.188	10-32	0.375	0.281	0.05	MX1500R
A	42.0 (19.05)	Low Profile Cup	Ceramic	2.03	0.188	10-32	0.859	0.313	0.15	MX2000
A	83.0 (37.65)	Low Profile Cup	Rare Earth	2.03	0.188	10-24	0.438	0.313	0.10	MX2002R
A	110.0 (49.90)	Low Profile Cup	Rare Earth	2.03	0.188	10-24	0.438	0.313	0.12	MX2004R
A	80.0 (36.29)	Low Profile Cup	Ceramic	2.63	0.281	1/4-20	1.00	0.375	0.30	MX2500
A	200.0 (90.72)	Low Profile Cup	Rare Earth	2.63	0.281	1/4-20	0.625	0.375	0.40	MX2508R
A	112.0 (50.80)	Low Profile Cup	Ceramic	2.88	0.270	1/4-20	1.00	0.375	0.35	MX2750
A	140.0 (63.5)	Low Profile Cup	Ceramic	3.18	0.281	1/4-20	1.203	0.438	0.53	MX3000
A	147 (66.68)	Low Profile Cup	Ceramic	3.87	0.38	5/16-32	1.28	0.510	0.95	MX3870
A	170.0 (77.11)	Low Profile Cup	Ceramic	4.90	0.500	3/8-16	1.75	0.5	1.50	MX5000
A	270.0 (122.47)	Low Profile Cup	Rare Earth	4.90	0.500	3/8-16	1.75	0.5	1.50	MX5000R
					Thread					
B	15.0 (6.80)	Cup w/ Bolt & Nuts	Ceramic	1.24	6-32	–	0.25	1.188	0.05	MX1000B
B	25.0 (11.34)	Cup w/ Bolt & Nuts	Ceramic	1.41	8-32	–	0.375	1.375	0.10	MX1500B
B	42.0 (19.05)	Cup w/ Bolt & Nuts	Ceramic	2.03	10-24	–	0.859	1.063	0.20	MX2000B
B	83.0 (37.65)	Cup w/ Bolt & Nuts	Rare Earth	2.03	10-24	–	0.438	1.566	0.20	MX2002RB
B	110.0 (49.90)	Cup w/ Bolt & Nuts	Rare Earth	2.03	10-24	–	0.438	1.566	0.22	MX2004RB
B	50.0 (22.68)	Cup w/ Bolt & Nuts	Ceramic	2.25	5/16-18	–	-	1.188	0.33	MX2250B
B	80.0 (36.29)	Cup w/ Bolt & Nuts	Ceramic	2.63	1/4-20	–	1.00	2.120	0.40	MX2500B
B	200.0 (90.72)	Cup w/ Bolt & Nuts	Rare Earth	2.63	1/4-20	–	0.625	2.120	0.50	MX2508RB
B	112.0 (50.80)	Cup w/ Bolt & Nuts	Ceramic	2.88	1/4-20	–	1.00	2.120	0.45	MX2750B
B	140.0 (63.5)	Cup w/ Bolt & Nuts	Ceramic	3.18	1/4-20	–	1.203	2.180	0.60	MX3000B
B	170.0 (77.11)	Cup w/ Bolt & Nuts	Ceramic	4.90	3/8-16	–	1.75	2.120	1.70	MX5000B
C	15.0 (6.80)	Cup w/ Adh. Back	Ceramic	1.24	Adhesive	–	0.25	0.188	0.03	MX1000ADH
C	25.0 (11.34)	Cup w/ Adh. Back	Ceramic	1.41	Adhesive	–	0.375	0.281	0.05	MX1500ADH
C	42.0 (19.05)	Cup w/ Adh.Back	Ceramic	2.03	Adhesive	–	0.859	0.313	0.10	MX2000ADH
					Opening (in)					
D	15.0 (6.80)	"D" Loop	Ceramic	1.24	0.43 x 0.75	–	0.25	0.375	0.05	MX1000DL
D	25.0 (11.34)	"D" Loop	Ceramic	1.41	0.43 x 0.75	–	0.375	0.50	0.10	MX1500DL
D	42.0 (19.05)	"D" Loop	Ceramic	2.03	0.43 x 0.75	–	0.859	0.5625	0.15	MX2000DL
					Thread (in)					
E	80.0 (36.29)	Threaded Hole	Ceramic	2.63	#10-32	–	1.00	0.375	0.30	MX2500TH
E	140.0 (63.5)	Threaded Hole	Ceramic	3.18	#10-32	–	1.203	0.438	0.53	MX3000TH
E	147 (66.68)	Threaded Hole	Ceramic	3.87	1/4-20	–	1.28	0.510	0.95	MX3870TH
					Carabiner Ln. (in)	**Carabiner Opening (in)**				
F	35 (15.9)	Carabiner Hook	Rare Earth	1.12	1.12	1/4	1-3/4	0.10	0.10	MX1125RCB

RUBBER PROTECTION BOOTS FOR CUP BASE MAGNETS

Ideal for protecting painted, plated, polished, etc. surfaces from scratches. Boots also increase resistance to shear forces. Rubber boots fit over the magnetic face of cup magnets. Note: Using a rubber boot on a cup magnet will reduce the magnet's holding power due to air gap. See holding power below.

Color	Air Gap (in)	Wt. (lbs)	Fits: MAX lbs (kg)	Model No.
Blue	0.032	0.001	MX1000: 2.3 (1.04); MX1000R: 11 (4.99)	MX10BB
Black	0.045	0.001	MX1500: 3.4 (1.54); MX1500R: 13.3 (6.03)	MX15BB
Blue	0.022	0.001	MX2000: 9.5 (14.31); MX2002R: 31.4 (14.24); MX2004R: 47.2 (21.41)	MX20BB
Black	0.042	0.020	MX2500: 18.3 (8.30); MX2508R: 70.0 (31.75)	MX25BB
Black	0.035	0.030	MX3000: 37.9 (17.91)	MX30BB
Blue	0.045	0.050	MX5000: 70.0 (31.75); MX5000R: 117.5 (53.30)	MX50BB

Secure cables and wires with these powerful magnets. Fast installation without drilling holes. Remove or reposition magnets when needed. Part number MX0560RZIP6 contains 6 one-piece galvanized steel zip tie.

Style	Max - lbs (kg)	Description	Magnet	O.D. (in)	Through Hole (in)	Magnet I.D. (in)	OAH (in)	Wt. (lbs)	Model No.
A	15.0 (6.80)	Black Plastic Zip Tie Holder	Ceramic	1.24	0.16 x 0.38	0.25	0.44	0.05	MX1000ZIP1
A	38.0 (22.29)	Black Plastic Zip Tie Holder	Rare Earth	1.24	0.16 x 0.38	0.25	0.44	0.05	MX1000RZIP1
B	15.0 (6.80)	Black Plastic Holder & Reusable Zip Tie	Ceramic	1.24	0.16 x 0.38	0.25	0.44	0.05	MX1000ZIP2
B	38.0 (22.29)	Black Plastic Holder & Reusable Zip Tie	Rare Earth	1.24	0.16 x 0.38	0.25	0.44	0.05	MX1000RZIP2
C	15.0 (6.80)	Black Plastic Cable Holder	Ceramic	1.24	0.44 – 1.00	0.25	0.75	0.05	MX1000CBL1
D	6.0 (2.72)	Galvanized Steel	Rare Earth	0.56	0.21 x 0.10	0.56	0.06	0.05	MX0560RZIP6

MAG-MATE® MAGNETS FOR HOLDING & STORAGE

PORTABLE MAGNETIC HOLDERS

Secure brooms, flashlights, spray cans, markers, etc. to any steel surface without drilling to install clips/holders. These powerful permanent magnets are quickly installed and repositioned when needed. Keep critical tools for the job handy.

Style	Max Hold - lbs (kg)	Description	Application	Magnet	O.D. (in)	Opening (in)	Magnet I.D. (in)	OAH (in)	Wt. (lbs)	Model No.
A	15.0 (6.80)	Nickel Plated Clamp	Spring Tension	Ceramic	1.24	0.19 – 0.38	0.25	0.88	0.05	MX1000NP01
A	25.0 (11.34)	Nickel Plated Clamp	Spring Tension	Ceramic	1.41	0.31 – 0.75	0.375	1.53	0.10	MX1500NP01
A	42.0 (19.05)	Nickel Plated Clamp	Spring Tension	Ceramic	2.03	0.63 – 1.25	0.859	2.31	0.19	MX2000NP01
A	80.0 (36.29)	Nickel Plated Clamp	Spring Tension	Ceramic	2.63	1.00 – 1.88	1.00	2.50	0.41	MX2500NP01
A	15.0 (6.80)	Stainless Steel Clamp	Spring Tension	Ceramic	1.24	0.38 – 0.50	0.25	1.09	0.05	MX1000SS01
A	25.0 (11.34)	Stainless Steel Clamp	Spring Tension	Ceramic	1.41	0.63 – 0.88	0.375	1.91	0.11	MX1500SS01
A	25.0 (11.34)	Stainless Steel Clamp	Spring Tension	Ceramic	1.41	0.88 – 1.13	0.375	2.03	0.10	MX1500SS02
A	25.0 (11.34)	White Plastic Coated Clamp	Spring Tension	Ceramic	1.41	0.31 – 0.75	0.375	1.66	0.10	MX1500WP03
A	25.0 (11.34)	White Plastic Coated Clamp	Spring Tension	Ceramic	1.41	0.56 – 0.88	0.375	1.28	0.09	MX1500WP01
A	42.0 (19.05)	White Plastic Coated Clamp	Spring Tension	Ceramic	2.03	0.63 – 1.25	0.859	2.31	0.19	MX2000WP01
A	80.0 (36.29)	White Plastic Coated Clamp	Spring Tension	Ceramic	2.63	1.00 – 1.88	1.00	2.88	0.41	MX2500WP01
B	42.0 (19.05)	Black Vinyl Coated Clamp	Flashlight	Ceramic	2.03	1.50 – 1.88	0.859	2.19	0.19	MX2000VB02
C	15.0 (6.80)	Zinc Plated Clamp	Spring Tension	Ceramic	1.24	0.38 – 0.63	0.25	1.13	0.06	MX1000ZP01
C	25.0 (11.34)	Zinc Plated Clamp	Spring Tension	Ceramic	1.41	0.75 – 1.13	0.375	1.53	0.13	MX1500ZP01
C	25.0 (11.34)	Zinc Plated Clamp	Spring Tension	Ceramic	1.41	1.00 – 1.50	0.375	1.53	0.19	MX1500ZP02
C	15.0 (6.80)	Black Vinyl Coated Clamp	Spring Tension	Ceramic	1.24	0.38 – 0.63	0.25	1.13	0.06	MX1000VB01
C	25.0 (11.34)	Black Vinyl Coated Clamp	Spring Tension	Ceramic	1.41	0.75 – 1.13	0.375	1.53	0.13	MX1500VB01
C	19.0 (8.62)	Black Vinyl Coated Clamp	Spring Tension	Ceramic	2.03	2.00 – 2.50	0.859	2.31	0.22	MX2000VB01
D	15.0 (6.80)	Black Plastic Clamp	Non-Conductive	Ceramic	1.24	0.87 – 1.13	0.25	0.98	0.05	MX1000BP01
D	25.0 (11.34)	Black Plastic Clamp	Non-Conductive	Ceramic	1.41	1.13 – 1.38	0.375	1.25	0.10	MX1500BP01
D	42.0 (19.05)	Black Plastic Clamp	Non-Conductive	Ceramic	2.03	1.87 – 2.13	0.859	2.06	0.20	MX2000BP01
E	42.0 (19.05)	Red Vinyl Hook	Broom Holder	Ceramic	2.03	1.38	0.859	4.50	0.20	MX2000RV01
F	80.0 (36.29)	Black Rubber Spring Clamp	Broom Holder	Ceramic	2.63	0.87 – 1.25	1.00	1.50	0.65	MX2500BH01
F	N/A	Black Rubber Spring Clamp	Broom Holder	N/A	N/A	0.87 – 1.25	2.62"L x 1.25"W x 1.50"H		0.20	981113

GRINDER TOOL HOLDER

Keep your grinder handy on top or side of steel work benches. Powerful permanent magnet holds up to 6" diameter grinder wheels in horizontal or vertical positions, regardless of trigger location.

Features
- Sturdy stainless steel holder
- Keep grinder protected and close at hand
- Magnetic base allows for quick placement and repositioning

Hold - lbs (kg)	Height (in)	Width (lbs)	Length (in)	Weight (in)	Model No.
56.0 (25.40)	6	4-3/8	9-1/8	1.20	GTH01

TWO LINE CLAMPS

Instantly install magnetic clamps on any steel surface. No drilling or other mounting hardware needed. Idea for pneumatic lines, PVC lines and electrical wires. Perfect for holding forklift battery cables and connector in place. Bright plated permanent magnet and black polypropylene holder withstand moisture. Temperature range is -20° to 190°F.

ID (in)	Hold - Lbs (kg)	Dia (in)	Projects (in)	Weight (lb)	Model No.
1/4	25 (11.34)	1.41	1-1/4	0.10	TLC0250M
3/8	42 (19.05)	2.03	1-1/4	0.15	TLC0375M
1/2	80 (36.29)	2.63	1-3/4	0.40	TLC0500M
5/8	80 (36.29)	2.63	1-3/4	0.40	TLC0625M

SPRAY GUN HOLDER

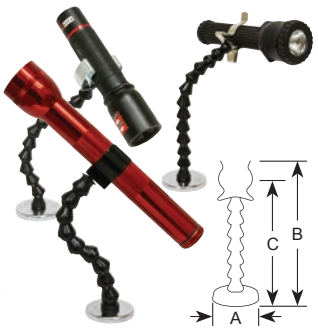
Keep your spray gun handy inside your paint booth! This magnetic Spray Gun Holder sticks through many layers of paint to hold your spray gun. Easily moved when necessary.

Features
- Sturdy Stainless Steel holder
- Plated Permanent Ceramic Cup Magnet

Holds - lbs (kg)	Height (in)	Width (in)	Projects (in)	Weight (lbs)	Model No.
95 (43.09)	4.9	4.9	5.5	1.75	SGH01

FLEXIBLE FLASHLIGHT HOLDER

When you need to use both hands and there is nobody to hold a light for you, these magnetic based flexible flashlight holders will come to the rescue. Strong magnetic hold is easily repositioned. Flexible neck lets you pinpoint the light right where you need it. MX25FLVB02 fits typical Mag-Lite® flashlights. Flashlights not included.



Hold - Lbs. (kg)	Open Range (in)	A (in)	B (in)	C (in)	Weight (lbs)	Model No.
42 (19.1)	0.62 - 1.25	2.03	8.50	7.87	0.25	MX20FLNP01
42 (19.1)	1.00 - 1.50	2.03	9.00	8.00	0.25	MX20FLZP02
80 (36.3)	1.50 - 1.87	2.63	10.75	9.75	0.55	MX25FLVB02

ON/OFF MAGNETIC HANGING HOOKS

On/Off Switchable Permanent Rare Earth Magnetic hanging hooks are perfect for temporary holding of lines, hoses, lights, tools and more. Quickly secure and hold just about anything, anywhere with unique fast hook technology.

Features
- Sides can hold nuts, bolts, screws etc. when magnet is turned "ON"
- Attaches to flat or round surfaces either one of two sides
- Unique hook design prevents lines and hoses from popping off
- Locking On/Off Handle

Hold - lbs (kg)	Projects (in)	Width (in)	Length (in)	Weight (lbs)	Inside Loop Length (in)	Inside Loop Width (in)	Model No.
35 (15.88)	2-3/4	1-3/4	5-3/4	0.95	1-5/8	1-1/8	HH035R
110 (49.90)	4-5/8	2-1/2	7-5/8	4.65	1-7/8	1-3/8	HH110R

MAGNETIC REVERSIBLE HOOK

Features
- Secures cables, wire, lights, garments and more to any flat steel surface.
- Magnet can be quickly installed and repositioned.
- Stainless steel hook can be used in the "open" position for quick access to store product.
- Move the hook to "closed" position to prevent products from being knocked off.
- Overall length 4.5"

Hold - lbs (kg)	Overall Ht. (in)	Magnet Dia. (in)	Hook Base Depth (in)	Hook Tip Ln. (in)	Hook Width (in)	Weight (lbs)	Model No.
19.0 (8.62)	1	2.03	3/4	3/4	1/4	0.20	MX2000HH

IMPACT WRENCH/HEAT GUN HOLDER

Ideal for holding heavy impact wrenches, heat guns or any similar shaped tools that need to be kept handy. Powerful permanent magnet holds extremely well on steel surfaces. The thicker the steel the better the hold.

Features
- Powerful Permanent Magnet
- Sturdy Stainless-Steel Holder
- Holds diameters up to 3-3/8"
- Heat resistant up 300°F (148°C)
- Lower loop is 2.35" diameter

Magnet Mount					
Hold - lbs (kg)	Height (in)	Width (in)	Projects (in)	Weight (lbs)	Model No.
140 (63.50)	3.18	4.25	4.5	0.85	IWH01M

Through Hole Mount					
Mounting Hole (in)	Height (in)	Width (in)	Projects (in)	Weight (lbs)	Model No.
0.27	3	4.25	4.10	0.40	IWH01

CAN/CUP HOLDERS

Hold your can, cup, bottle, lubricant spray, etc. where you want it. Take it with you from one machine to another or anywhere there is a metal surface. Holds well on ferrous metal surfaces, painted or plated surfaces.

Features
- Sturdy Stainless Steel holder
- Holds diameters up to 3-3/8" with or without a handle
- Available with magnets or through holes

Magnet Mount					
Hold - lbs (kg)	Height (in)	Width (in)	Projects (in)	Weight (lbs)	Model No.
41.0 (18.60)	3.5	4.25	4-1/4	0.85	CCH01
82.0 (37.2)	3.5	8.25	4-1/4	2.10	CCH02
82.0 (37.2)	3.5	12	4-1/4	2.95	CCH03

Through Hole Mount					
Mounting Hole (in)	Height (in)	Width (in)	Projects (in)	Weight (lbs)	Model No.
0.27	3.5	4.25	4	0.55	CCH11
0.27	3.5	8.25	4	1.40	CCH12
0.27	3.5	12	4	2.25	CCH13

UNIVERSAL J-HOOKS

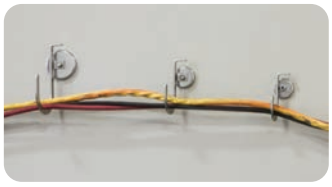
Use J-Hooks to hold cables, wires, tubing, etc. to steel walls, ceilings or beams. Powerful magnet can be mounted on the hook in either of two positions for wall or ceiling installation.

Features
- Magnet can be quickly installed and repositioned.
- Sturdy Stainless-Steel hook.

Use LC210RJH mostly for curved surfaces and also flat surfaces

LC210RJH

Magnet base on LC210RJH swivels.

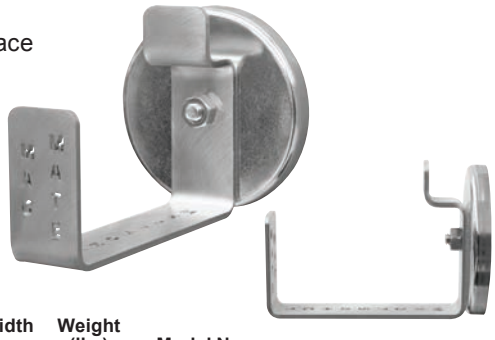


Hold - lbs (kg)	Dia. (in)	Overall Length (in)	Overall Projects (in)	Open Range (in)	Weight (lbs)	Model No.
15 (6.80)	1.24	3.12	2.00	1.0 x 1.0	0.10	MX1000JH
25 (11.34)	1.41	3.87	2.75	1.5 x 1.5	0.15	MX1500JH
42 (19.05)	2.03	5.00	3.25	2.0 x 2.0	0.25	MX2000JH
63 (28.57)	-	5.50	3.50	2.0 x 2.0	0.30	LC210RJH

MAG-MATE® MAGNETS FOR HOLDING & STORAGE

HOSE CORD HOOK/HOLDER

Features
- Secure hoses, cables, cords and more to any flat, steel surface
- Magnet can be quickly installed and repositioned
- Sturdy stainless steel hook
- Small holder secures ends of hose/cord from unravelling

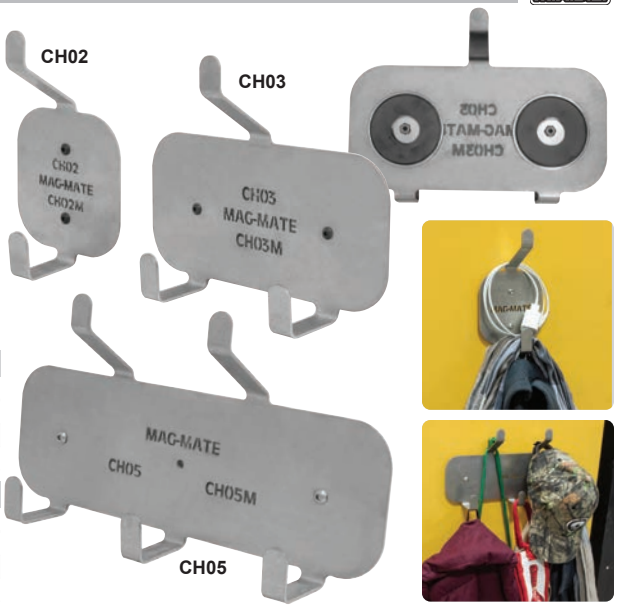


Hold - lbs (kg)	Projects (in)	Magnet Diameter (in)	Hook Base Depth (in)	Hook Tip Length (in)	Hook Width (in)	Weight (lbs)	Model No.
45 (20.41)	4-3/8	2.88	3-3/4	2	1	0.65	MX2750HC1

COAT HOOK HOLDERS

Referred to as "coat" hooks, these holders are used for many storage needs such as: coats/jackets, lanyards, key chains, umbrellas, etc. Sturdy stainless steel construction, these coat hooks are available with and without magnets for mounting. Use magnetic versions for mounting to steel surfaces like cabinets, doors, machinery, beams, etc. Use the through holes to mount to any non-ferrous surface.

Features
- Sturdy one-piece Stainless Steel construction
- Offset hooks on 3 & 5 hook models for easy use
- Powerful permanent magnets on models ending with "M"



Magnetic Mount					
Hold - lbs (kg)	Height (in)	Width (in)	Projects (in)	Weight (lbs)	Model No.
20.5 (9.30)	7.23	4.25	2.54	0.95	CH02M
43.5 (19.73)	7.23	9.00	2.59	2.05	CH03M
53.2 (24.13)	7.23	13.75	2.64	3.25	CH05M

Through Hole Mount					
Mounting Hole (in)	Height (in)	Width(in)	Projects (in)	Weight (lbs)	Model No.
0.20	7.23	4.25	2.23	0.65	CH02
0.27	7.23	9.00	2.23	1.35	CH03
0.27	7.23	13.75	2.23	2.10	CH05

TOOL STORAGE HOLDING TRAYS

These Tool Storage Holding Trays are used for holding tools, fasteners, spray cans, tape, etc. to the sides of tool boxes, walls, tables or any area where tools need to be within reach. The Magnetic Mount tray allows you to quickly remove the tray from your toolbox and take it wherever your tools are needed. No need to run back and forth to your toolbox. Most standard size tool boxes will hold two, ST0625 trays, side by side.

Features
- Sturdy one-piece Stainless Steel construction
- Direct Mount or Magnetic Mount option
- Tray depth one inch (1") on all models
- Direct mount models have 2 or 3 thru-holes

Magnetic Mount					
Hold - lbs (kg)	Height (in)	Length (in)	Projects (in)	Weight (lbs)	Model No.
20.5 (9.29)	4.25	6.25	2.75	1.25	ST0625M
43.5 (19.73)	4.25	11.50	2.75	2.30	ST1150M
43.5 (19.73)	4.25	14.00	2.75	2.45	ST1400M

Through Hole Mount					
Mounting Hole - in (mm)	Height (in)	Length (in)	Projects (in)	Weight (lbs)	Model No.
0.201 (5.11)	4.25	6.25	2.75	0.95	ST0625
0.201 (5.11)	4.25	11.50	2.75	1.70	ST1150
0.201 (5.11)	4.25	14.00	2.75	1.85	ST1400

SPRAY CAN RACK HOLDER

These stainless-steel racks are used for organizing and storing spray-paints, lubricants or other small, cylindrical cans right where you need them. Available in horizontal or vertical orientation, each rack holds up to 6 cans and can be ordered with either a magnetic mount or through-hole mounting style. Magnetic versions can be mounted to paint booths, metal storage cabinets, doors, machinery, or shelving and can be easily repositioned when needed. Use the through-hole version to mount to any non-ferrous surface. Vertical-style racks utilize a small magnet in each slot to securely hold the can in place in case of vibration or transport.

Horizontal Racks							
Hold – Lbs. (kg)	**Mounting Hole (in)**	**Height (in)**	**Width (in)**	**Projects (in)**	**Opening Dia. (in)**	**Weight (lb)**	**Model No.**
NA	0.27 (1/4 bolt)	4	20	3.75	3	3.06	PCRH06
18 (8.17)	NA	4	20	4	3	3.75	PCRH06M

Vertical Racks							
Hold – Lbs. (kg)	**Mounting Hole (in)**	**Height (in)**	**Width (in)**	**Projects (in)**	**Opening Slot (in)**	**Weight (lb)**	**Model No.**
NA	0.27 (1/4 bolt)	26	4.75	4	2.75	3.55	PCRVH06
26 (11.79)	NA	26	4.75	4.375	2.75	4.25	PCRV06M

ACCESSORY HOOK HOLDER

Accessory hooks/holders are used for many storage needs such as: shovels, brooms, rakes, tools, hammers, etc. Industrial strength, one-piece stainless steel construction, these hooks are available with and without magnets for mounting. Use magnetic versions for mounting to steel surfaces like metal storage cabinets, doors, machinery, beams, etc. Reposition when needed. Use the through holes to mount to any non-ferrous surface.

Magnet Mount							
Hold – Lbs. (kg)	**Ht. (in)**	**Wd. (in)**	**Projects (in)**	**Hook Tip Ln. (in)**	**Tip Gap (in)**	**Wt. (lb)**	**Model No.**
18 (8.17)	5	4	3-1/4	2-3/4	2	1.05	AH02M
50 (22.68)	8	6	4-1/2	3-3/4	3-1/2	2.50	AH03M

Through Hole Mount							
Mounting Hole (in)	**Ht. (in)**	**Wd. (in)**	**Projects (in)**	**Hook Tip Ln. (in)**	**Tip Gap (in)**	**Wt. (lb)**	**Model No.**
0.201 (#10 Bolt)	5	4	3	2-3/4	2	0.70	AH02
0.266 (1/4-20)	8	6	4	3-3/4	3-1/2	1.45	AH03

BAND STRAP HOLDER

Powerful magnets hold metal banding during the cutting process, preventing the cut ends from flying off and possibly injuring someone.

- (2) Powerful, permanent, Rare-Earth magnets
- Large loop allows for metal cutters to access the banding between the magnets
- Galvanized/Plated components can be use inside or outside

Hold - lbs (kg)	Magnet Dia. (in)	Ln. (in)	Wd. (in)	Ht. (in)	Wt. (lbs)	Model No.
36 (16.33)	0.98	5-3/8	0.98	2-5/8	0.20	BSH200R

ON/OFF MAGNETIC TIE-DOWNS

Switchable Magnetic Tie-Downs for holding of tarps, signs, banners, etc. No need to drill, bolt or weld mounting tabs to surfaces. Place magnet on clean steel, push the handle slightly down and rotate 180° to turn magnet “On.” Reverse steps to turn magnet “Off.”

Features

- On/Off Permanent Rare Earth Magnet
- Locking On/Off Handle
- 4:1 design factor
- Performs best when mounted on a clean, smooth, flat, metal surface that is at least 1/4” thick
- Works on flat and round ferrous surfaces

Hold - lbs (kg)	Round lbs (kg)	Height (in)	Width (in)	Length (in)	Loop Dia. (in)	Weight (lbs)	Model No.
35.0 (15.88)	19 (8.62)	2-3/4	1-13/16	4-1/8	1-1/8	0.90	MTD035R
110 (49.90)	57 (25.85)	4-3/4	2-3/4	5-3/4	1-1/8	4.50	MTD110R

MAG-MATE® TOOL STORAGE & SQUARING ARMS

AIR TOOL HOLDERS/RACK

Keep all your air tools organized, neat and handy with this one-piece sturdy rack. Available in three different lengths with slots for 1/4" or 3/8" air tool male couplers.

Features
- Sturdy all Stainless Steel construction
- Versatile mounting flange
- Beveled flange to keep tools from vibrating off
- Wide shelf for storage of other tools such as sockets

Coupler Size	Slot Width	Ht. (in)	Wd. (in)	Projects (in)	No. of Slots\ Holes	Wt. (lbs)	Model No.
1/4	.34	1-1/2	12	4	5-4	1.75	ATH12-025
3/8	.50	1-1/2	12	4	5-4	1.75	ATH12-038
1/4	.34	1-1/2	24	4	11-10	3.50	ATH24-025
3/8	.50	1-1/2	24	4	11-10	3.50	ATH24-038
1/4	.34	1-1/2	48	4	15-14	7.00	ATH48-025
3/8	.50	1-1/2	48	4	15-14	7.00	ATH48-038

MAGNETIC TOOL HOLDERS

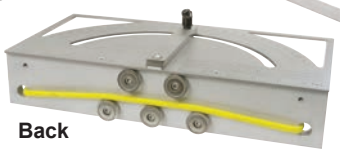
Features
- Industrial strength keeps tools close at hand and organized
- Mount to walls, work benches, ladders, etc.
- Versatile mounting flange with screws provided
- Durable stainless steel construction
- Holds a 10 Lb. Hammer!
- USA M.A.D.E.™

Hold - lbs (kg)	Projects (in)	Length (in)	Height (in)	Weight (lbs)	Model No.
120.0 (54.44)	2	12	2	2.00	TH1200
180.0 (81.65)	2	18	2	3.00	TH1800
240.0 (108.87)	2	24	2	4.00	TH2400

MAGNETIC SQUARING ARM FOR PRESS BRAKES

Perform 90 degree and angled bends faster, safer and more accurately. This squaring arm magnetically attaches to the flat surface of the die without tools. The Magnetic Squaring Arm for Press Brakes features an adjustable arm that can swing 140 degrees allowing for quick and easy part positioning on the left or right to accommodate part requirements.

This Magnetic Squaring Arm improves safety for press brake operators working with small parts. Sturdy platform and a magnetic arm holds parts, keeping operators fingers clear of the press.



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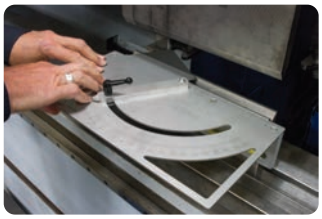


Features
- Powerful Rare Earth Magnets hold tight to die
- Arm swings from 90° to 20° in two directions allowing for 140° swing in total
- Arm is magnetic to hold small steel pieces, keep fingers away
- Adjustable handle secures arm at proper angle and moves out of the way
- Locator rule on leading edge helps locate squaring arm
- Stainless Steel/Aluminum construction
- Safety strap prevents squaring arm from falling off if accidentally knocked off die

Hold - lbs (kg)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
90 (40.82)	2-5/8	7-1/4	14	5	MSAP01

MAGNETIC SQUARING ARM FOR SHEARS

Maximize shear efficiency by utilizing the entire shear blade for uniform wear and perform angle cuts. On/Off magnets allow for fast setup with a standard framing square. For extra strength, an additional magnet can be added in the center. For short bed depths, one magnet can be moved to the center hole.

Features
- Powerful On/Off Permanent Rare Earth Magnets
- Adjustable magnet locations or add another magnet
- Stainless Steel construction

Hold - lbs (kg)	Overall Height (in)	Edge Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
300 (136.07)	2-5/8	3/4	2-1/4	12	2.25	MSAS01

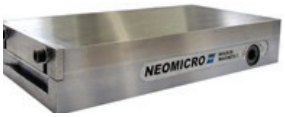
WORKHOLDING CHUCKS FOR GRINDING & TURNING

PERMANENT MAGNETIC CHUCK - GRINDING

C2 Fine Division Permanent Chuck for maximum holding power for general grinding and EDM applications.

Size (in)	Height (in)	Weight (lbs)	Model No.
6x12	2.79	57	CP0612C2
6x18	2.79	86	CP0618C2
8x18	2.79	114	CP0818C2
10x15	2.79	125	CP1015C2
12x18	2.79	172	CP1218C2
12x24	2.79	237	CP1224C2

Interloc chucks are designed to reliably hold a large range of workpiece sizes, from very small and thin up to large, for precision grinding jobs.



Width (in)	Length (in)	Height (in)	Weight (lbs)	Model No.
4"	10"	1.9"	22	CP0410MICRO
5"	10"	1.9"	22	CP0510MICRO
6"	6"	2.0"	19.8	CP0606MICRO
6"	10"	2.0"	33	CP0610MICRO
6"	12"	2.0"	39.6	CP0612MICRO
6"	14"	2.0"	48.4	CP0614MICRO
6"	17.7"	2.0"	61.6	CP0618MICRO
8"	15.74"	2.0"	72.6	CP0816MICRO
8"	17.7"	2.0"	81.4	CP0818MICRO
8"	24"	2.2"	107.8	CP0824MICRO
12"	24"	2.2"	178.2	CP1224MICRO

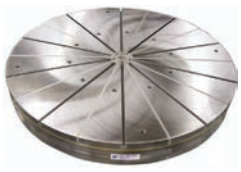
PERMANENT MAGNETIC CHUCK - MILLING

Neomill permanent magnetic chuck for milling. These permanent magnetic chucks are designed using Neodymium magnets for milling applications. The dual Neodymium magnet pack generates an exceptionally high holding force on workpieces with an uneven or rough contact surface.

Size	Height (lbs)	Weight (lbs)	Model No.
6x12	2.2	45	CP0612MIL
6x18	2.2	77	CP0618MIL
8x18	2.2	110	CP0818MIL
12x24	2.5	196	CP1224MIL

ROTARY & PERM-ELECTRO CHUCK

RP RADIAL - Rotary Electromagnetic and Electro-Permanent Chucks are made in radial, multi-coil design for use in hard turning and free state grinding. Ideal for holding circular workpieces, rings and discs.



Dia. (in)	Weight (lbs)	Model No.
4"	22	CE06RP
5"	22	CE08RP
6"	19.8	CE10RP
6"	33	CE12RP
6"	39.6	CE14RP
6"	48.4	CE16RP
6"	61.6	CE18RP

ELECTROMAGNETIC CHUCK - GRINDING

Fine division Long Bar Pole electromagnetic chuck ideal for surface grinding small to medium parts.

Size (in)	Watts	Height (in)	Weight (lbs)	Model No.	Recommended Control
4x8	26	2.88	22	CE0408LBP	SMART150WB
6x10	42	2.88	40	CE0610LBP	SMART150WB
6x12	50	2.88	46	CE0612LBP	SMART150WB
6x18	85	2.88	70	CE0618LBP	SMART150WB
8x15	95	2.88	80	CE0815LBP	SMART150WB
8x18	100	2.88	100	CE0818LBP	SMART150WB
8x20	125	2.88	95	CE0820LBP	SMART150WB
8x24	150	2.88	130	CE0824LBP	SMART150WB
10x15	82	2.88	130	CE1015LBP	SMART150WB
10x24	100	2.88	150	CE1024LBP	SMART300SB
12x24	141	3.13	185	CE1224LBP	SMART150WB
16x32	294	3.69	312	CE1632LBP	SMART300WB

Interloc workholding chuck offers maximum effective holding on the widest range of workpiece in grinding applications.

Size (in)	Watts	Height (in)	Weight (lbs)	Model No.	Recommended Control
12x12	192	3.5	275	CE1224LOC	SMART300WB
12x48	387	3.5	550	CE1236LOC	SMART500WB
18x36	431	3.5	625	CE1436LOC	SMART500WB
20x36	445	3.5	653	CE1836LOC	SMART500WB
24x48	717	3.5	1100	CE1632LOC	SMART1000WB

ELECTROMAGNETIC CHUCK CONTROLS

- SMART "B" series
  Automatic release up to 500W
- SMART C series
  A "B" series with current sensor
- SMART "D" series
  Automatic release wall mount
- Manual Release Control
  Variable holding up to 150W

ROTARY PERMANENT CHUCK

NEOSTAR - Radial pole chuck designed for holding rings and bearing races, as well as solid rounds.

NEOSTAR Specifications				
Size (mm)	Total Dia. (in)	Total Height (in)	Weight (lbs)	Model No.
150	5.9	2.24	18	CP06STAR
200	7.9	2.24	31	CP08STAR
250	9.84	2.76	60	CP10STAR
300	11.8	2.87	90	CP12STAR
350	13.8	2.95	121	CP14STAR
400	15.7	2.95	165	CP16STAR
500	19.7	2.95	260	CP20STAR
600	23.6	2.95	374	CP24STAR

Additional sizes available upon request.

MAGNETIC CLAMPING BLOCKS

MAGNETIC CLAMPING BLOCKS

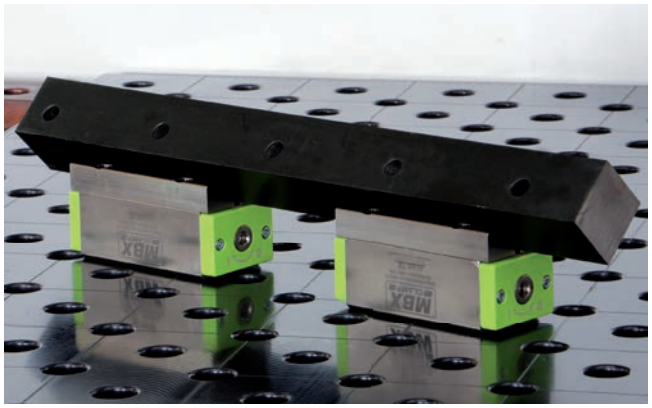
MBX magnetic clamping blocks have opposite clamping sides when turned ON. Designed to clamp workpieces to steel surfaces, such as machinery or worktables. Ideal for applications such as welding, deburring, tapping or machining operations. With two different shaped clamping surfaces, almost any workpiece geometry can be held such as: flat, round, square or custom profiles. Clamps allow machining on 5-sides, reducing the number of operations.

FEATURES

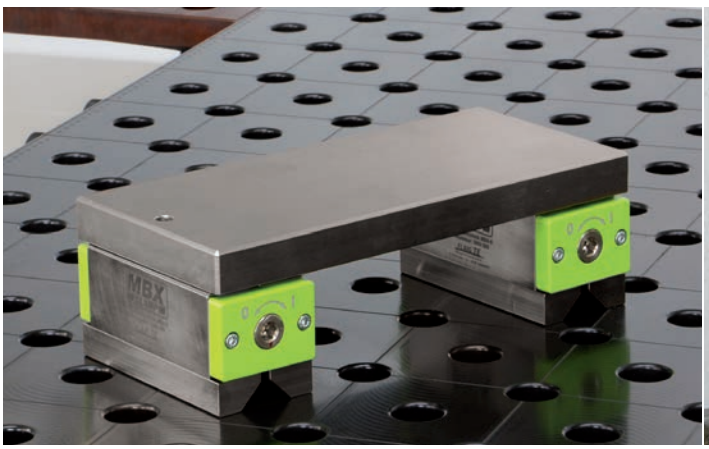
- Powerful ON/OFF Permanent 2-sided Magnet
- Holds Flats, Round, Square Workpiece Geometry
- 90° swing ON/OFF Activation
- Nickel-plated Housing
- 3rd Clamping Side for Vertical Holding
- Turns ON/OFF on Either End
- Use Hex Rod to Join Two Clamps (not included)
- Sold in Pairs

MBX CLAMP

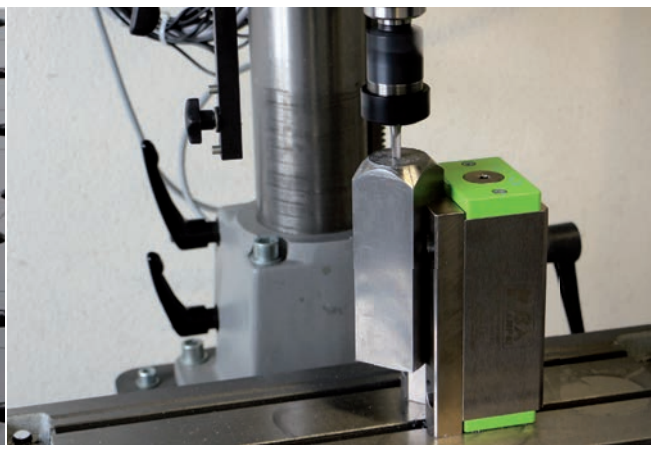
Round Material - Surface 1 & 2



Angle Material - Surface 2



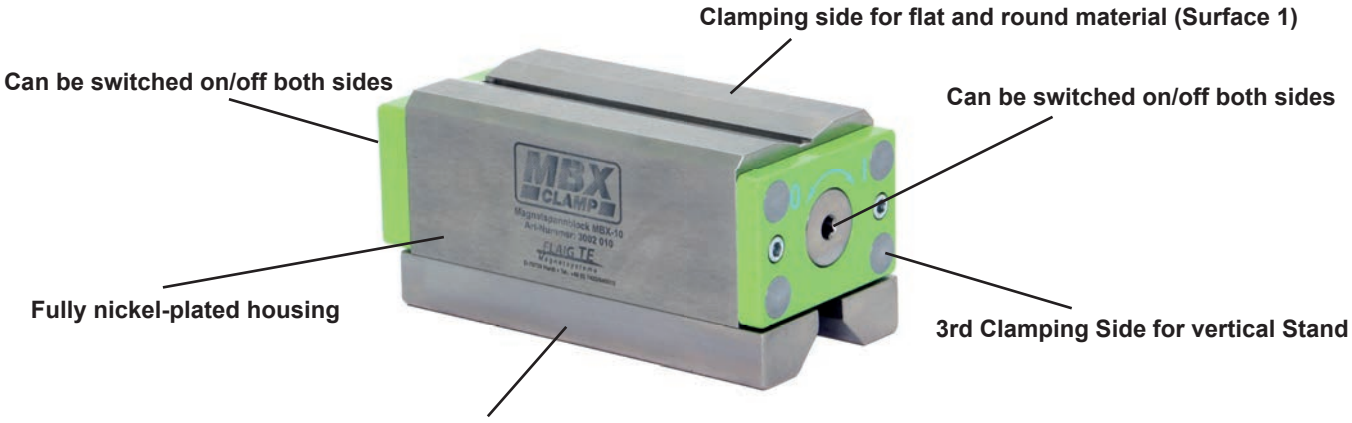
Flat Material - Surface 1

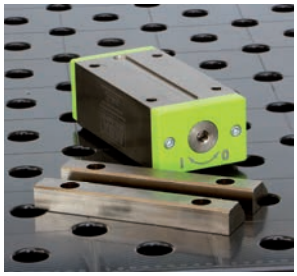


Vertical Drilling, Grinding, Welding 3rd side Hold

MAGNETIC CLAMPING BLOCKS

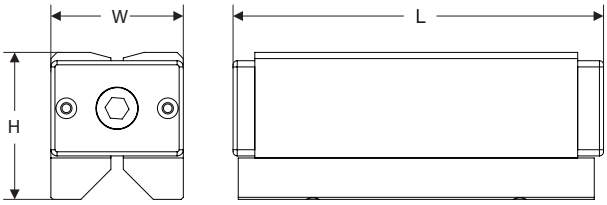
The MBX magnetic clamping block holds itself on the table and tension the workpiece



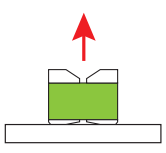
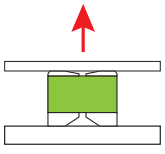
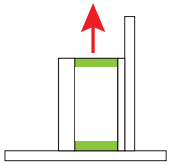
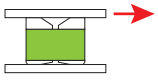
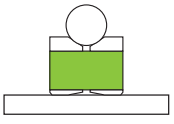


the 90° poles of the MBX can be replaced with workpiece-specific poles

Multiple MBX can be switched at the same time (Hex rod not included)



Model No.	Overall Dimensions L	W	H	Surface 1 Dimensions L	W	Dia. Min.	Surface 2 Dim. w/ 90° L	W	Dia. Min.	Weight (ea)
MBX05PK2	5.63"	2.52"	2.80"	4.72"	2.24"	2"	5.35"	2.5"	3/8"	8.6 lbs
	143 (mm)	64 (mm)	71 (mm)	120 (mm)	57 (mm)	50 (mm)	136 (mm)	64 (mm)	10 (mm)	3.9 Kg
MBX07PK2	7.01"	2.52"	2.80"	6.14"	2.24"	2"	6.77"	2.52"	3/8"	10.8 lbs
	178 (mm)	64 (mm)	71 (mm)	156 (mm)	57 (mm)	50 (mm)	172 (mm)	64 (mm)	10 (mm)	4.9 Kg
MBX10PK2	7.24"	3.43"	3.47"	6.38"	2.24"	2"	7.01"	2.99"	1"	19.40 lbs
	184 (mm)	87 (mm)	88 (mm)	162 (mm)	57 (mm)	50 (mm)	178 (mm)	76 (mm)	25 (mm)	8.8 Kg

	Breakaway Pull Pounds from Work Holding Face					
						
Model No.	Force to Breakaway from one surface	Force to Breakaway from either Top Plate (1" plate) or Bottom Plate (3" plate)	Force to Breakaway from Base Plate with 1" Plate on Either Pole Face	Sheer Force to Slide Plate on either Magnet Face	1.5" O.D. Bar Pulled from V-Pole w/Magnet on 3" Base Plate	1.5" O.D. Bar Pulled from Flat Pole w/ Magnet on 3" Base Plate
MBX05PK2	1125 lbs (510 Kg)	320 lbs (145 Kg)	120 lbs (54 Kg)	80 lbs (36 Kg)	180 lbs (81 Kg)	115 lbs (52 Kg)
MBX07PK2	1575 lbs (714 Kg)	370 lbs (167 Kg)	160 lbs (72 Kg)	100 lbs (45 Kg)	200 lbs (90 Kg)	130 lbs (58 Kg)
MBX10PK2	2250 lbs (1021 Kg)	600 lbs (272 Kg)	200 lbs (90 Kg)	190 lbs (86 Kg)	310 lbs (140 Kg)	280 lbs (127 Kg)

MAGNETIC WELDING SQUARES

USA M.A.D.E.

Features

- Ideal for welders that need fast set-up and accurate holding of steel at multiple angles
- Hold work pieces at multiple angles
- Finger hole(s) for safer and easier use
- 5/16” Mounting holes for fixturing
- Plated steel poles reduce rust
- WS420, WS810 & WS820 models feature “Breakaway Handle”*
- Weld spatter and fuzz iron resistant covers on certain models**

Hold - lbs (kg)	Description	Thickness (in)	Height (in)	Width (in)	Weight (lbs)	Zinc Model No.	Copper Model No.
55 (24.95)	Multi-Angle	3/4	3	4-3/8	1.00	WS11094	
110 (49.89)	Multi-Angle, Extra Power	1-9/16	3	4-3/8	2.00	WS11094X2	
40 (18.14)	Inside 90°, Outside 45°/90°	5/8	2-7/8	5-1/2	0.75	WS100	
60 (27.21)	Compact	3/4	3-3/4	3-3/4	1.00	WS300	WS300CP
60 (20.21)	Compact Multi-Angle	3/4	3-3/4	3-3/4	1.00	WS301	WS301CP
120 (54.43)	Adjustable	1-3/8	3-3/4	7-5/8	2.15	WS302	
75 (34.02)	Mid-Size	3/4	4-3/8	3-3/4	1.05	WS400	WS400CP
75 (34.02)	Mid-Size, Covered**	3/4	4-3/8	3-3/4	1.15	WS410	WS401CP
150 (68.04)	Mid-Size, Extra Power Covered**	1-1/2	4-3/8	3-3/4	2.30	WS420*	
160 (72.58)	Large, Covered**	3/4	8	8	3.90	WS810*	
325 (147.42)	Large, Extra Power Covered**	1-1/2	8	8	7.50	WS820*	

Magnetic Welding 3-Axis Holding

- Permanent Welding Square holds 3 pieces of metal at once
- Ideal for holding support brackets, gussets, etc.
- Third side has 42lb max hold
- WS410AX3 has weld splatter, fuzz iron resistant cover

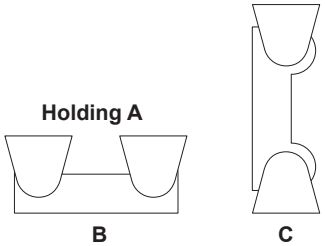
Hold - lbs (kg)	Description	Thickness (in)	Height (in)	Width (in)	Weight (lbs)	Model No.
55 (24.95)	Multi-Angle	1-1/8	3	4-3/8	1.00	WS11094AX3
60 (27.21)	Compact	1-1/8	3-3/4	3-3/4	1.00	WS300AX3
60 (20.21)	Compact Multi-Angle	1-1/8	3-3/4	3-3/4	1.00	WS301AX3
75 (34.02)	Mid-Size	1-1/8	4-3/8	3-3/4	1.05	WS400AX3
75 (34.02)	Mid-size Covered	1-1/8	4-3/8	3-3/4	1.20	WS410AX3

MULTI-POSITIONING MAGNETIC V-PAD CLAMPS

USA M.A.D.E.

One of the best tools a welder could have. These magnetic V pads hold steel in almost any angle. Each clamp has a pivoting pad at each end to hold workpiece at angles up to 180°.

- Powerful Rare Earth Magnets
- Each Pad contains 4 magnets
- Great for holding round stock
- Sold in set of 2 V-Pads



Holding Value - lbs (kg)			Dimension (in)			Weight (lbs)	
A	B	C	Length	Width	Height	Set	Model No.
15 (6.8)	8.5 (3.9)	6.3 (2.9)	2-1/4	1	1	0.30	WVP1PK2
29 (13.2)	8.5 (3.9)	15 (6.8)	2-1/2	1-1/2	1-1/8	0.60	WVP2PK2

MAG90™ ON/OFF MAGNETIC SQUARES

On/Off Switchable Permanent Rare Earth Magnetic Squares are extremely powerful and eliminate the need for tedious clamping. The Mag90™ squares offer fast work-holding on multiple sides for flat or round steel. Features pre-tapped holes on all sides for mounting and a locking On/Off handle for safety.

Max Hold - lbs (kg)			Overall							
Flat Steel	Round Steel	Min. Diameter (in)	Height (in)	Height (in)	Width (in)	Length (in)	Tap	Tap Depth (in)	Weight (lbs)	Model No.
150 (68.04)	75 (34.02)	1-1/2	2-3/4	1-1/8	1-1/2	1-1/2	#8-32	0.330	0.80	WS0150R
450 (204.12)	225 (102.06)	2	4-5/8	2-3/4	2-1/2	3	1/4-20	0.500	4.30	WS0450R
1000 (453.60)	500 (226.79)	4	4-3/4	3	4	4-1/4	3/8-16	0.625	10.45	WS1000R

ON/OFF MAGNETIC WELDING ANGLES

On/Off Switchable, Permanent Rare Earth Magnetic Welding Angles. Welders set up, weld and quickly move on to the next project. Simply place on work surface, turn on and start welding. On/Off magnets easily allows debris to fall away. Can be used on flat or round steel or cast iron. Non-marring hold. Stainless steel construction.

Features

- WSP0150R pivots to angles ranging from 22° to 270°, with locking handle and detents. Hold on 3 sides.
- WSF0150R & WSF0450R have slots allowing for quick-slide adjustment or addition of more magnetic bases. Reversible for inside or outside hold.
- WSF275X3 ON/OFF holds 3 sides.

Hold - lbs (kg)	Angle Type	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
150 (68.04)	Pivoting	9-5/8	2-1/8	9-5/8	4.30	WSP0150R
150 (68.04)	90°	8-1/4	2-7/8	8-1/4	3.60	WSF0150R
450 (204.12)	90°	12-1/4	3-7/8	12-1/4	6.80	WSF0450R
275 (124.74)	90°	7-1/4	1-5/8	7-1/4	5.00	WSF275X3

ON/OFF SWITCHABLE MAGNETIC WELDING SQUARES

Features

- 5 common angles: 45, 75, 90, 105 & 135 degrees
- WSM0150RG is a dual purpose tool, utilizing multi-angle weld square and a 300 AMP welding ground all in one. Fits 1/2 inch bolt.
- Stays clean and chips fall off easily when magnet is turned off
- Heat resistant up to 180°F (82°C)

Hold - lbs (kg)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
80 (36.28)	3-1/2	1-15/16	3-1/2	1.45	WSM0150R
150 (68.04)	3-3/4	1-15/16	4	1.60	WSM0150RG

BUTT WELD MAGNETIC CLAMP SET

Unlike other butt weld clamps, these clamps utilize two powerful Rare Earth magnets to securely hold work pieces during setting up. Magnetic feet swivel for curved surface. Ideal for automotive body panel repairs, tanks/containers, or flat welding. Standard ¼" clamp bar is replaceable with custom bars to match contours.

Features

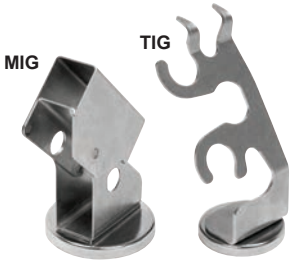
- Gap between panels, 0.03"
- Works with materials up to 3/8" thick
- Sold in set of 2 clamps

Hold Each - lbs (kg)	Length (in)	Magnet Height (in)	Overall Height (in)	Width (in)	Weight (lbs)	Model No.
6.3 (2.9)	2-1/4	1	2-1/4	1	0.45	WBC1PK2

WELD TORCH HOLDERS

Features

- Securely and neatly hold welding torch in place on the top, side or underside of work bench or nearby steel structure
- Stainless steel holder, plated steel magnetic base
- Magnetic base allows for quick and easy repositioning



Hold - lbs (kg)	Magnet Diameter (in)	Torch Type	Height (in)	Width (in)	Weight (lbs)	Model No.
41 (18.59)	2.63	TIG	6-3/4	3-1/8	0.75	WTHT01
47.5 (21.54)	3.18	MIG	5-3/4	4	0.90	WTHM01

MAG-MATE® WELDING SQUARES, GROUNDS & TOOLS

MAGNETIC WELDING GROUNDS

Features
- Powerful magnet attaches securely to steel work surfaces
- Spring-loaded 1/2" Diameter stud assures constant electrical ground contact
- Release handle

Hold - lbs (kg)	Dia. (in)	Height (in)	Amps	Stud	Weight (lbs)	Model No.
35 (15.88)	3-1/2	2-1/4	250	Brass	1.50	WG250
35 (15.88)	3-1/2	2-1/4	800	Copper	1.50	WG800

ON/OFF MAGNETIC WELD GROUNDS

On/Off Switchable Permanent Rare Earth Magnetic Grounds let welders set up, weld and quickly move on to the next project. Makes welding quicker and easier than ever before. Will work on flat or pipe.

Bolt: 1/2-13 x 1-1/4" Long

Hold - lbs (kg)	Height (in)	Width (in)	Length (in)	Amps	Weight (lbs)	Model No.
150 (68.04)	2-3/4	1-13/16	2-7/8	200	0.90	WG200R
150 (68.04)	2-3/4	1-15/16	2-7/8	300	0.95	WG300R
450 (204.12)	4-5/8	3	5	800	4.90	WG800R

ON/OFF MAGPRY™

Strong, easy to use, On/Off switchable magnetic pry bar for material leveling and alignment also known as mismatch or high/low allowing for rapid and easy plate matching for seamless welds on flat and pipe. Perfect for all plate and seam work, under foot, on vertical surfaces, even overhead. The Mag-Pry™ eliminates need for welded tabs. Up to 100 times faster than dogs and wedges saving you time and money, pays for itself in days. Non-marring.

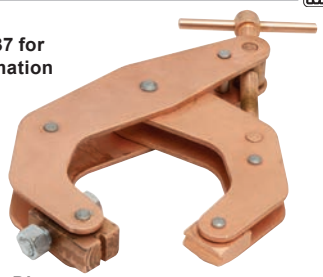
Hold - lbs (kg)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
1000 (453.60)	3-1/2	5-7/8	19	10.0	PB1000R

KANT-TWIST® WELDING GROUND CLAMP

USA M.A.D.E.

Features
- Dual-purpose workpiece clamp and welding ground
- Contains a 400 AMP weld ground connection
- No-twist clamp secures workpiece without twisting or "walk-off-center"
- Copper plated clamp prevents weld spatter from sticking
- Clamp jaws are beveled to hold both flat or round surfaces
- Deep reach jaw allows for deep clamping of material

See page 37 for more information



Jaw Capacity (in)	Throat Depth Open (in)	Throat Depth Closed (in)	Overall Length (in)	Width Open (in)	Thickness (in)	Max Clamp Force (lbs)	Handle Diameter & Length (in)	Handle Dia. & Length w/ Weaver Grip (in)	Weight (lbs)	Model No.	Model No. With Weaver Grip
4 1/2	2 3/8	2 5/8	7 1/2	7	1 1/8	1700	1/4 x 3	7/8 x 4	1.91	K045TGD	K045TGDW

MAGNETIC WELDING WIND BLOCK

USA M.A.D.E.

Features
- Powerful permanent magnets
- Prevents loss of gas coverage
- Stainless steel with flat black finish
- Reduces arc flash
- Spring load holds tight to surface, horizontally, vertically or inverted

Hold - lbs (kg)	Overall Height (in)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
50 (22.68)	8.33	7.09	2.88	24	2.50	WWB24
50 (22.68)	8.33	7.09	2.88	36	3.00	WWB36

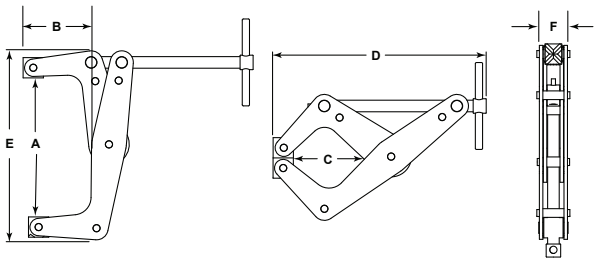
CANTILEVER CLAMPS

KANT-TWIST®

KANT-TWIST® CANTILEVER CLAMPS

Features

- Will not "walk-off-center"
- Eliminates distorting and twisting action of C-clamps
- Cantilever design provides 4:1 clamp ratio
- Three different gripping surfaces
- Built-in "V" block for round stock
- Free floating jaws adjust to uneven surfaces
- Copper plated jaws, screw and handle are ideal for welding

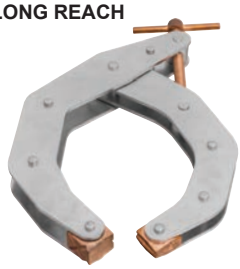


STANDARD T-HANDLE

ROUND HANDLE

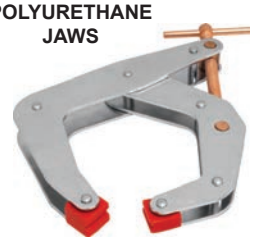
DEEP REACH W/ WEAVER-GRIP™

LONG REACH



STAINLESS STEEL

POLYURETHANE JAWS



NO-MAR® ROUND FLAT PAD

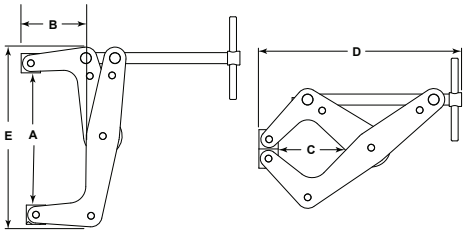
3 POINT HOLD

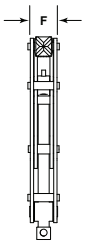
Jaw Capacity A (in)	Throat Depth Open B (in)	Throat Depth Closed C (in)	Overall Length D (in)	Width Open E (in)	Thickness F (in)	Max Clamp Force (lbs)	Handle Diameter & Length (in)	Handle Dia & Length w/Weaver-Grip™ (in)	Weight (lbs)	Model No.	Model No. With Weaver-Grip™
Round Handle. Ideal for "fine tuning" clamping force											
3/4	3/8	3/8	1-3/4	1-3/8	7/16	200	5/8	N/A	0.06	K007R	N/A
1	1/2	1/2	2-1/4	1-7/8	1/2	350	3/4	N/A	0.1	K010R	N/A
1-1/2	1	1	3-3/4	3-1/8	5/8	600	1-1/8	N/A	0.29	K015R	N/A
2	1-1/4	1-1/4	4	3-1/4	7/8	800	1-1/8	N/A	0.46	K020R	N/A
2-1/2	1-3/4	1-13/16	4-1/2	4-1/16	7/8	700	1-1/8	N/A	0.51	K025RD	N/A
Standard T-Handle											
1	1/2	1/2	2-1/8	1-7/8	1/2	350	1/8 x 1	1/2 x 1-1/2	0.09	K010T	K010TW
2	1-1/4	1-1/4	4	3-3/8	7/8	800	1/8 x 1-3/4	11/16 x 2-1/2	0.42	K020T	K020TW
3	1-3/4	1-1/2	6-1/4	5-1/4	1-1/8	1500	1/4 x 3	7/8 x 4	1.15	K030T	K030TW
6	2-1/8	3	9-1/4	8-1/2	1-3/8	2000	5/16 x 3-3/4	1-1/8 x 5	2.78	K060T	K060TW
9	3-3/4	4-3/4	14-1/2	13	1-5/8	2500	3/8 x 6	N/A	7.15	K090T	N/A
12	5-1/2	6-1/2	17-3/4	16	2	6000	3/8 x 6	N/A	13.9	K120T	N/A
Deep Reach - Extended Reach T-Handle. Reach farther onto material											
2-1/2	1-3/4	1-13/16	4-1/2	4-1/16	7/8	700	1/8 x 1 3/4	11/16 x 2-1/2	.51	K025TD	K025TDW
4-1/2	2-3/8	2-5/8	7-1/2	7	1-1/8	1700	1/4 x 3	7/8 x 4	1.75	K045TD	K045TDW
6	5	5	11-1/2	10	1-3/8	2000	5/16 x 3 3/4	1-1/8 x 5	3.75	K060TD	K060TDW
10	6-1/2	7	17	15	1-3/4	3500	3/8 x 6	N/A	11.35	K100TD	N/A
Long Reach T-Handle - Reaches approximately 3" farther than Deep Reach											
4-1/2	5-5/8	5-1/8	9-7/8	8-1/2	1-7/32	680	1/4 x 3	7/8 x 4	2.33	K045TL	K045TLW
6-1/2	8-5/8	8-3/4	13-5/16	12-3/4	1-7/16	845	5/16 x 3 3/4	1-1/8 x 5	4.45	K060TL	K060TLW
Stainless Steel T-Handle. Ideal for use in corrosive, sanitary or magnetic applications											
2	1-1/4	1-1/4	4	3-1/4	7/8	700	1/8 x 1-3/4	11/16 x 2-1/2	.42	K020TS	K020TSW
3	1-1/4	1-1/2	6-1/4	5-1/4	1-1/8	1200	1/4 x 3	7/8 x 4	1.14	K030TS	K030TSW
4-1/2	2-3/8	2-1/2	7-1/2	6-3/4	1-1/8	1500	1/4 x 3	7/8 x 4	1.74	K045TSD	K045TSDW
6	5	5	11-1/2	10	1-3/8	2000	5/16 x 3 3/4	1-1/8 x 5	3.75	K060TSD	K060TSDW
No-Mar® Round Flat Pad Jaw, T-Handle. Wood, plastics, aluminum or polished metals											
3/4	1/2	1/2	2-1/2	1-3/4	1/2	350	1/8 x 1	1/2 x 1-1/2	0.1	K010TP	K010TPW
1-3/4	1-1/8	1-1/4	4-1/2	3-1/4	1-3/8	800	1/8 x 1-3/4	11/16 x 2-1/2	0.46	K020TP	K020TPW
2-1/4	1-3/4	1-13/16	4-1/2	4-1/16	1-3/8	700	1/8 x 1-3/4	11/16 x 2-1/2	.51	K025TPD	K025TPDW
2-3/4	1-1/4	1-3/4	6-3/4	5	1-7/8	1500	1/4 x 3	7/8 x 4	1.26	K030TP	K030TPW
4-1/8	2-1/4	2-1/2	8-1/4	6-3/4	1-7/8	1700	1/4 x 3	7/8 x 4	1.87	K045TPD	K045TPDW
Polyurethane Jaws, T-Handle. Ideal for holding polished or finished materials. Jaws are 65 to 75 on Shore Hardness D Scale. (70 D± 5)											
3	1-1/4	1-3/4	6-3/4	5	1-1/8	1125	1/4 x 3	7/8 x 4	1	K030TU	K030TUW
4-1/2	2-1/4	3-13/16	8-1/4	7	1-1/8	1275	1/4 x 3	7/8 x 4	1.61	K045TUD	K045TUDW
6	4-1/2	5-1/2	11- 1/2	10	1-3/8	1500	5/16 x 3-3/4	1-1/8 x 5	3.58	K060TUD	K060TUDW
Double Spindle T-Handle. 3 point hold, 2 directional pressure like a third hand. Great for welding or gluing											
6	5	5-1/2	11-1/2	10	1-3/8	2000	5/16 x 3-3/4	1-1/8 x 5	4.27	K060TD3	N/A

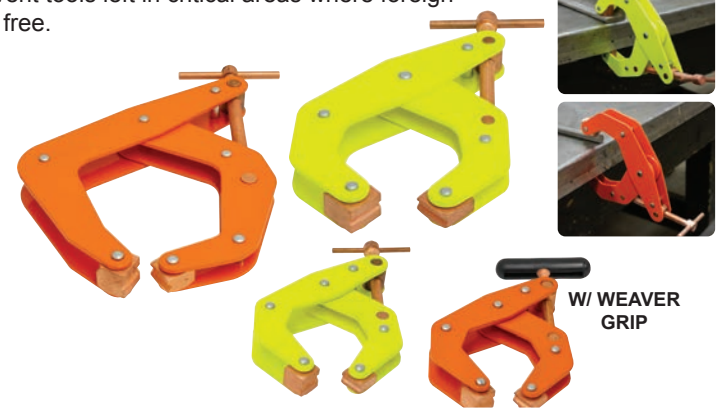
KANT-TWIST® CANTILEVER CLAMPS

DEEP REACH CLAMPS IN HIGHLY VISUAL COLORS

Easily see clamps in action or find them quickly. Helps prevent tools left in critical areas where foreign objects cannot be left behind. FOD (Foreign Object Debris) free.



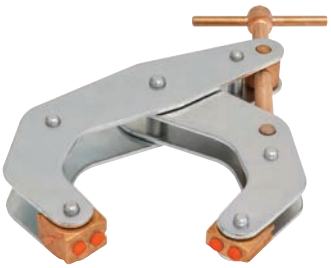


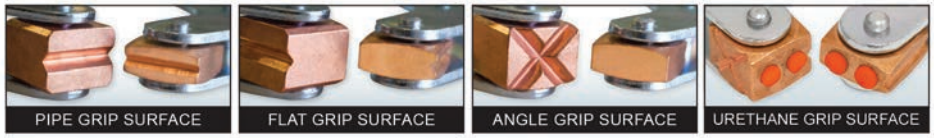


Jaw Capacity A (in)	Throat Depth Open B (in)	Throat Depth Closed C (in)	Overall Length D (in)	Width Open E (in)	Thickness F (in)	Max Clamp Force (lbs)	Handle Diameter & Length (in)	Handle Dia & Length w/Weaver-Grip™ (in)	Weight (lbs)	Model No.	Model No. With Weaver-Grip™
2-1/2	1-3/4	1-13/16	4-1/2	4-1/16	7/8	700	1/8 x 1 3/4	11/16 x 2-1/2	.51	K025TDHVO	K025TDHVOW
4-1/2	2-3/8	2-5/8	7-1/2	7	1-1/8	1700	1/4 x 3	7/8 x 4	1.75	K045TDHVO	K045TDHVOW
6	5	5	11-1/2	10	1-3/8	2000	5/16 x 3 3/4	1-1/8 x 5	3.75	K060TDHVO	K060TDHVOW
2-1/2	1-3/4	1-13/16	4-1/2	4-1/16	7/8	700	1/8 x 1 3/4	11/16 x 2-1/2	.51	K025TDHVY	K025TDHVYW
4-1/2	2-3/8	2-5/8	7-1/2	7	1-1/8	1700	1/4 x 3	7/8 x 4	1.75	K045TDHVY	K045TDHVYW
6	5	5	11-1/2	10	1-3/8	2000	5/16 x 3 3/4	1-1/8 x 5	3.75	K060TDHVY	K060TDHVYW

4-IN-1, "MULTIPLE-JAW" DEEP REACH CLAMPS

Each deep-reaching, Multiple-Jaw clamp offers four clamping options to accommodate the different surfaces of your work pieces: flat, pipe, angled or non-marring. Simply rotate the clamp's jaws to match the surface style of your part. The polyurethane grip option can be used on polished or painted metals, wood, plastic, aluminum, or any soft material.

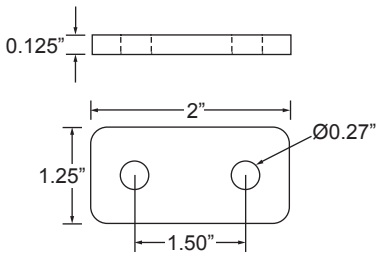




Jaw Capacity A (in)	Throat Depth Open B (in)	Throat Depth Closed C (in)	Overall Length D (in)	Width Open E (in)	Thickness F (in)	Max Clamp Force (lbs)	Handle Diameter & Length (in)	Handle Dia & Length w/Weaver-Grip™ (in)	Weight (lbs)	Model No.	Model No. With Weaver-Grip™
4-1/2	2-3/8	2-5/8	7-1/2	7	1-1/8	1700	1/4 x 3	7/8 x 4	1.75	K045TMD	K045TMDW
6	5	5	11-1/2	10	1-3/8	2000	5/16 x 3 3/4	1-1/8 x 5	3.75	K060TMD	K060TMDW

ADAPTABLE "WIDE FOOT JAW" DEEP REACH CLAMPS

Ideal for clamping material end-to-end or any clamping requirement needing a larger clamping surface. Feet contain mounting holes that adapt to special bracketry needed to hold your work piece, whether it is larger flat brackets or brackets designed to hold odd shaped parts.



Jaw Capacity A (in)	Throat Depth Open B (in)	Throat Depth Closed C (in)	Overall Length D (in)	Width Open E (in)	Thickness F (in)	Max Clamp Force (lbs)	Handle Diameter & Length (in)	Handle Dia & Length w/Weaver-Grip™ (in)	Weight (lbs)	Model No.	Model No. With Weaver-Grip™
4-1/4	2-3/8	2-5/8	8	7	1-1/4	1700	1/4 x 3	7/8 x 4	1.85	K045TFD	K045TFDW
5-3/4	5	5	12	10	1-1/4	2000	5/16 x 3 3/4	1-1/8 x 5	3.85	K060TFD	K060TFDW

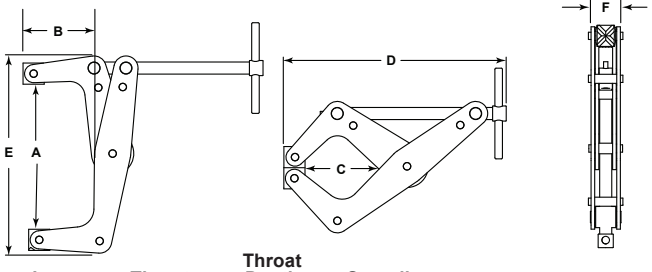
CANTILEVER CLAMPS

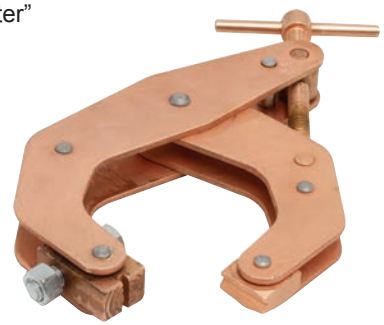
KANT-TWIST®

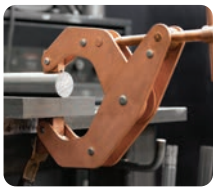
DEEP REACH WELDING GROUND CLAMP

Features

- Dual-purpose workpiece clamp and welding ground
- Contains a 400 AMP weld ground connection
- No-twist clamp secures workpiece without twisting or “walk-off-center”
- Copper plated clamp prevents weld spatter from sticking
- Clamp jaws are beveled to hold both flat or round surfaces
- Deep reach jaw allows for deep clamping of material
- USA M.A.D.E.™





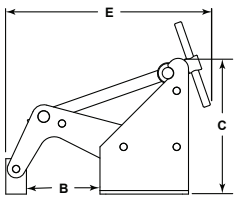


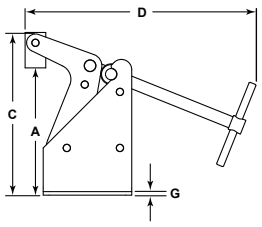
Jaw Capacity A (in)	Throat Depth Open B (in)	Throat Depth Closed C (in)	Overall Length D (in)	Width Open E (in)	Thickness F (in)	Max Clamp Force (lbs)	Handle Diameter & Length (in)	Handle Dia. & Length w/ Weaver Grip (in)	Weight (lbs)	Model No.	Model No. w/ Weaver-Grip™
4-1/2	2-3/8	2-5/8	7-1/2	7	1-1/8	1700	1/4 x 3	7/8 x 4	1.91	K045TGD	K045TGDW

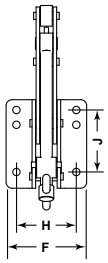
QUICK-ACTING HOLD DOWN CLAMPS ALSO WITH NO-MAR® PADS

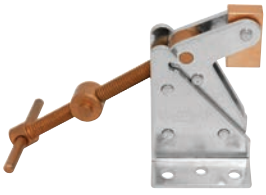
Features

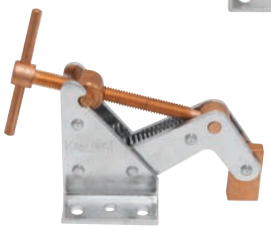
- Quick Acting Hold Down Clamp
- More clamping power than ordinary Toggle Clamps
- Ideal for Drill Presses and Machining Centers
- Best for holding where thickness and surface are not exact from part to part
- Spring tension jaw moves quickly out of the way
- USA M.A.D.E™











Jaw Opening A (in)	Throat Depth Open B (in)	Height Closed C (in)	Height Open C (in)	Overall Length Open D (in)	Overall Length Closed E (in)	Flange Width F (in)	Flange Thick. G (in)	Bolt Hole Width H (in)	Bolt Hole Length J (in)	Max Clamp Force (lbs)	Handle Diameter & Length (in)	Handle Dia. & Length w/ Weaver-Grip™ (in)	Weight (lbs)	Model No.	Model No. w/ Weaver-Grip™
3	1-1/2	3-1/2	4	6	5-1/2	2-3/4	1/8	2	1-1/2	1500	1/4 x 3	7/8 x 4	1.15	K030TQ	K030TQW
6	3	6	7	9	8-1/2	3-3/16	3/8	3	2-5/8	3200	5/16 x 3-3/4	1-1/8 x 5	3.7	K060TQ	K060TQW
2-3/4	1-1/2	3-1/2	4	6	5-1/2	2-3/4	1/8	2	1-1/2	1500	1/4 x 3	7/8 x 4	1.15	K030TQP	K030TQPW
5-3/4	3	6	7	9	8-1/2	3-3/16	3/8	3	2-5/8	3200	5/16 x 3-3/4	1-1/8 x 5	3.7	K060TQP	K060TQPW

WEAVER-GRIPS™

Features

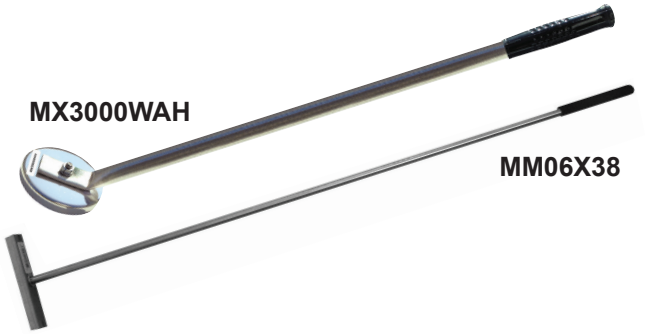
- Weaver-Grip™ - A High Quality Handle Accessory for Kant-Twist® T-Handle Clamps
- Comfortable Grip for ease of use
- Makes repetitive use much easier
- Apply maximum pressure with less effort
- Very durable high quality ABS plastic
- Taps easily On and Off
- USA M.A.D.E.™

Fits Clamps with Jaw Capacity (in)	Fits Clamps with T-Handle Length (in)	Diameter (in)	Length (in)	Weight (lbs)	Model No.
1	1	1/2	1-1/2	0.01	WG010
2	1-3/4	11/16	2-1/2	0.02	WG020
3 & 4-1/2	3	7/8	4	0.05	WG034
6	3-3/4	1-1/8	5	0.15	WG060

MAG-MATE® MAGNETIC RETRIEVERS & INSPECTION MIRRORS

LONG REACH RETRIEVERS

Ideal for reaching behind, underneath or around machinery and/or difficult to reach areas. These tools have a maximum temperature of 300°F (148°C). The MX3000WAH lightweight long reach retriever has a round magnet at a 45 degree angle. The MM06X38 is a long retriever for narrow areas with a rectangular magnet.



Lift - lbs (kg)	Magnet (in)	Length (in)	Weight (lbs)	Model No.
47.5 (21.55)	3-1/4 Diameter	38	1.70	MX3000WAH
8.0 (3.63)	1-3/8 x 6	40	3.00	MM06X38

ON/OFF MAGNETIC UTILITY LIFTER

Stop bending over to lift and move steel pieces and scrap.

Reduce finger and toe injuries with this lightweight deep reach permanent magnetic lifter.

This Magnetic Utility Lifter has a locking On/Off handle for safety and makes moving steel quick and easy.

Lift - lbs (kg)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
50.0 (22.68)	28-1/2	5-1/2	3-1/2	7.65	MCLVB01
75.0 (34.02)	28-1/2	7	5	14.35	MCLVB02

INSPECTION MIRRORS - HI-VIS ORANGE

These telescoping mirrors have a slim profile, joints that can swivel and/or rotate and have highly visual orange grips and/or heads. Never leave a tool behind! 301G240HVO had a retrieving magnet at the opposite end that can lift 2 lbs and has a handy pocket clip. IMS123HVO contains a stainless steel mirror for use in critical areas where foreign objects cannot be left behind. FOD (Foreign Object Debris) free. Handles are nonslip, solvent resistant cushion grips.

Style	Mirror (in)	Mirror	Shaft Material	Length (in)	Ext. Length (in)	Weight (lbs)	Model No.
A	2 x 1	Glass	Stainless Steel	6-1/2	36	0.17	315HVO
B	2 x 2	Glass	Chrome Plated Brass	6-1/4	28	0.10	301G240HVO
C	3-1/2 x 2-1/2	Glass	Stainless Steel	7-1/4	37	0.21	318HVO
D1	2-1/4 Dia	Glass	Stainless Steel	7	36-1/2	0.20	309S1HVO
D2	2-1/4 Dia	Stainless	Stainless Steel	7	36	0.15	IMS123HVO
E	2 x 2	Acrylic	Stainless Steel	7	35-1/2	0.21	312AHVO

LIGHTED INSPECTION MIRROR

This telescoping glass mirror contains 3 LED lights that pivot to shine the light exactly where you need it. Mirror is on a double ball joint. Batteries included.
Replacement batteries: 2pc CR2032 Lithium

Mirror (in)	Mirror	Shaft Material	Handle/Grip Feature	Length (in)	Extended Length (in)	Weight (lbs)	Model No.
2-3/4 x 1-7/8	Glass	Stainless Steel	Non-slip, Solvent Resistant	7-1/2	35	0.25	IMG238L

INSPECTION TOOL KITS

Best of both worlds when you package a telescoping mirror or magnifier with a telescoping Rare Earth magnetic retriever in a foam-lined snap-lock case. These tools have a nonslip, solvent-resistent grip.

Note: MMK200 is Non-telescoping, Non-conductive (Nylon construction, including the grip), and does not come in a case. MMK301 contains a Lighted Magnetic Pick-up Tool, 4-Jaw, 7/16" dia., 8-3/4" Mechanical Finger retriever and a Round Magnifying Inspection Mirror.

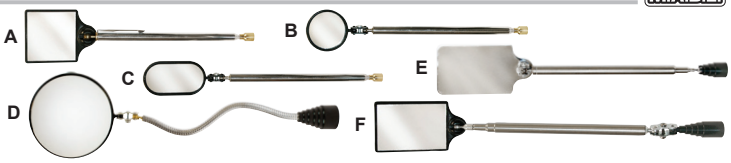
Mirror / Magnifier (in.)	Mirror	Lift - lbs (kg)	Shaft Material	Mirror / Magnifier Length (in)	Magnet Diameter (in)	Magnet Head	Magnet Length (in)	Weight (lbs)	Model No.
1-1/2 dia.	Glass	1 (0.45)	Nylon	8-1/4	5/16	Swivel	8-1/4	0.05	MMK200
1-3/4 x 2-1/2	Acrylic	14 (6.35)	Stainless	7-1/2 – 34	5/8	Fixed	7-1/2 – 34	0.60	MMK201
1-3/4 x 2-1/2	Acrylic	14 (6.35)	Stainless	7-1/2 – 34	5/8	Swivel	7-1/2 – 34	0.60	MMK203
1-3/4 x 2-1/2	3X Glass Magnifier	14 (6.35)	Stainless	7-1/2 – 34	5/8	Swivel	7-1/2 – 34	0.60	MMK204
2-1/2 dia.	3X Glass	22 (9.97)	Stainless	7 – 36	11/16	Lighted/Fixed	7-1/2 – 32	0.90	MMK301

Order Online At **www.magnetics.com** Or Email Us At **imi@magnetics.com**

INSPECTION MIRRORS

INSPECTION MIRROR & RETRIEVING MAGNET COMBINATION TOOLS

Mirror/Magnet combos have a Mirror and a powerful Rare Earth magnet on opposite ends. Use the magnet to retrieve metal items or as a magnetic base to hold the inspection mirror in place. 301G240 has a handy pocket clip. 375G990 has a flexible arm for mirror positioning.



Style	Mirror (in.)	Mirror	Lift - lbs (kg)	Magnet (in)	Shaft Material	Length (in)	Ext. Ln. (in)	Weight (lbs)	Model No.	Replacement Mirror
A	2 x 2	Glass	2.0 (0.908)	5/16 Dia.	Chrome Plated Brass	6-1/4	28	0.10	301G240	301RG
B	1-1/2 Dia.	Glass	2.0 (0.908)	5/16 Dia.	Chrome Plated Brass	6	23-1/2	0.10	306G240	306RG
C	2 x 1-1/4	Glass	2.0 (0.908)	5/16 Dia.	Chrome Plated Brass	6	24-1/4	0.10	315G240	315RG
D	3-7/8 Dia.	Glass	20.0 (9.072)	1-1/8 Dia.	Chrome Plated Steel	14-1/4	—	0.24	375G990	375RG
E	3 x 2	Stainless	7.0 (3.176)	5/8 Dia.	Stainless Steel	8-1/4	38	0.20	314S925	314SS-RH
F	2-1/2 x 1-7/8	Acrylic	12.0 (5.444)	1/2 Dia.	Stainless Steel	7-3/4	34-1/2	0.25	321A931	321RA

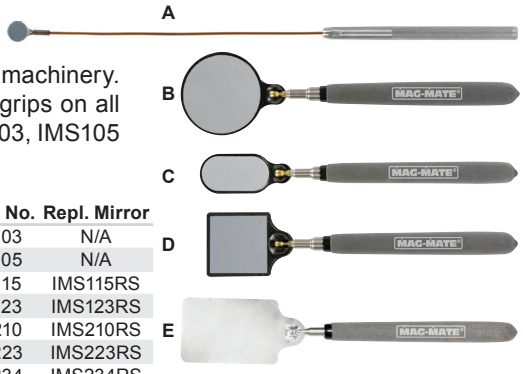
INSPECTION MIRRORS

These Mirrors telescope or bend, have a slim profile and have joints that can swivel and/or rotate. Models 311 & 317 have a locking hinged mirror that allows for 180° of positioning. 321S-A can be bent to a permanent position or the inside stiffening wire can be removed to snake it into position. The 3714SW is a large dolly mounted inspection mirror with swivel wheels, 3" clearance and a flashlight clip.

Style	Mirror (in.)	Mirror	Shaft Material	Handle/Grip Feature	Length (in)	Ext. Ln. (in)	Weight (lbs)	Model No.	Repl. Mirror
A	7/8 Dia.	Glass	Nylon	Nylon	8	—	0.01	302	302RG
B	1-1/2 Dia.	Glass	Chrome Plated Brass	Pocket Clip	4-1/2	24	0.07	306TR	306RG
C1	2-1/4 Dia.	Glass	Stainless Steel	Vinyl Grip-Black	7-3/4	14-1/2	0.25	309TR	309RG
C2	2-1/4 Dia.	Glass	Stainless Steel	Non-slip, solvent-resistant	7	36-1/2	0.20	309S1	309RG
D1	2 x 1-1/4	Glass	Stainless Steel	Plunger/Spring	11	—	0.18	311	311RG
D2	2-3/4 x 1-3/4	Glass	Stainless Steel	Plunger/Spring	16-1/4	—	0.20	317	317RG
E	2 x 1	Glass	Stainless Steel	Non-slip, solvent-resistant	6-1/2	36	0.17	315	315RG
F	2-3/4 x 2-1/4	Glass	Stainless Steel	Non-slip, solvent-resistant	7-1/2	36-1/2	0.15	316	316RG
G	3-1/2 x 2-1/2	Glass	Stainless Steel	Non-slip, solvent-resistant	7-1/4	37	0.21	318	318RG
H	3-7/8 Dia.	Glass	Steel	Non-slip, solvent-resistant	15-3/4	32-1/2	0.51	375	375RG
I	7 x 14	Glass	Aluminum	Vinyl bicycle grip	49	74	5.25	3714SW	3714RG
J	3-1/2 x 2	3x Glass Magnifier	Stainless Steel	Non-slip, solvent-resistant	7-1/4	36-1/2	0.18	316M	316MRG
K	2 x 2	Acrylic	Stainless Steel	Non-slip, solvent-resistant	7	35-1/2	0.21	312A	312RA
L	2-1/2 x 1-7/8	Acrylic	Stainless Steel	Non-slip, solvent-resistant	25	—	0.35	321S-A	321RA

STAINLESS STEEL INSPECTION MIRRORS

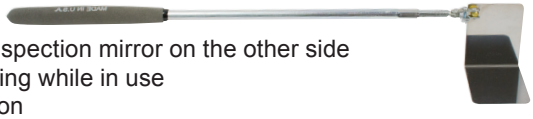
Stainless Steel Mirrors are ideal for use in critical areas where foreign objects cannot be left behind. FOD (Foreign Object Debris) free. No worries about glass mirrors breaking in sensitive areas such as engines, fuel lines and machinery. Great for high heat areas. Telescoping shafts and nonslip, solvent resistant grips on all except IMS103 & IMS105 that have Knurled Handles & bendable shafts. IMS103, IMS105 & IMS234 are non-framed and can be used in liquid/solvent applications.



Style	Mirror (in)	Shaft	Handle Grip/Feature	Ln.(in)	Ext. Ln. (in)	Wt. (lbs)	Model No.	Repl. Mirror
A1	3/8 Dia.	Copper	Knurled Aluminum	11-1/2	—	0.02	IMS103	N/A
A2	1/2 Dia.	Copper	Knurled Aluminum	12	—	0.02	IMS105	N/A
B1	1-1/4 Dia.	Stain. Steel	Non-slip, solvent-resistant	7	35	0.15	IMS115	IMS115RS
B2	2-1/4 Dia.	Stain. Steel	Non-slip, solvent-resistant	7	36	0.15	IMS123	IMS123RS
C	2 x 1	Stain. Steel	Non-slip, solvent-resistant	7	36	0.15	IMS210	IMS210RS
D	2 x 2	Stain. Steel	Non-slip, solvent-resistant	7	35-1/2	0.15	IMS223	IMS223RS
E	3 x 2	Stain. Steel	Non-slip, solvent-resistant	7	37	0.18	IMS234	IMS234RS

READ RITE™ INSPECTION MIRROR

The Read Rite™ Inspection Mirror shows the numbers, letters and more as they would appear if they were visually accessible by the eye (non-inverted), eliminating deciphering or transcription errors and providing the utmost accuracy in observation. Using a typical inspection mirror to read important numbers can lead to uncertainty or inaccuracy due to the inverted appearance of the image.



- Stainless Steel Mirror - No glass to break
- Dual-sided: Read Rite™ mirror on one side, regular inspection mirror on the other side
- Telescoping Hex rod shaft prevents mirror from swinging while in use
- Double Ball Hinge with adjustable tension, 360° rotation

Mirror (in)	Mirror	Shaft	Handle/Grip Type	Length (in)	Extended Length (in)	Weight (lbs)	Model No.	Replacement Mirror
3-1/2 x 2	Stainless Steel	Zinc Plated	Non-slip, solvent-resistant	15-1/2	28-1/2	0.50	390SS	390RS

MAG-MATE® MAGNETIC RETRIEVERS & MECHANICAL FINGERS

POCKET TOOLS & RETRIEVERS

Ideal for reaching behind, underneath or around machinery and/or difficult to reach areas. The Fixed Shaft and Telescoping Shaft Magnetic Retrievers feature several Magnet Head styles that include the Fixed Head, Single Ball Swivel Head and the Double Ball Swivel Hinge Head that allow for more control and functionality. Powerful Rare Earth magnet material, except where noted. All Rare Earth tools have a maximum temperature of 180°F (82°C).

Fixed Head

Single Ball

Double Ball

	Fixed Shaft Retrievers & Tools Description	Lift - lbs (kg)	Shaft	Dia. (in)	Ln. (in)	Wt. (lbs)	Model No.
A	Key chain retriever. Powerful Rare Earth magnet encased in an Aluminum Rod.	4.0 (1.814)	AL	3/8	2	0.03	KCR375
B	Pen sized magnetic tool. Sturdy clip holds magnet firmly in pocket.	2.5 (1.134)	AL	5/16	6	0.06	906
C	Double Ball Swivel Hinge Head. Non-conductive Nylon handle.	1.0 (0.454)	NY	5/16	8-1/4	0.05	909
D	Precision ground carbide tip scribe is reversible with magnet on the opposite end.	2.5 (1.134)	AL	5/16	5	0.05	92CLP

	Telescoping Shaft Retrievers & Tools Description	Lift - lbs (kg)	Shaft	Dia. (in)	Ln. (in)	Ext. (in)	Wt. (lbs)	Model No.
E	Stainless steel Pen-size pilot lighter with match holding alligator clip.	N/A	SS	1/4	7-1/2	25-1/2	0.07	PLO1
F	Double Ball Swivel Hinge Head. Hex rod prevents magnet from swinging while in use.	7.5 (3.402)	ZP	1/2	17	26-1/2	0.36	927
G	Double Ball Swivel Hinge Head. Hex rod prevents magnet from swinging while in use.	12.0 (5.443)	ZP	1/2	13	26	0.44	931
H	Stainless steel Pen-size tool for tiny jobs. Comes with pocket clip.	2.0 (0.907)	CP	5/16	5-1/2	25-1/2	0.07	240N
I1	Magnetic retriever with Single Ball swivel head & nonslip solvent-resistant comfort grip.	7.0 (3.175)	SS	5/8	8	35	0.19	925
I2	Same as Model No. 925 in Hi-Vis orange.	7.0 (3.175)	SS	5/8	8	35	0.19	925HVO
J1	Magnetic retriever with fixed head and nonslip solvent-resistant comfort grip.	5.0 (2.268)	SS	3/8	6-1/2	32	0.14	923
J2	Same as Model No. 923 in Hi-Vis orange.	5.0 (2.268)	SS	3/8	6-1/2	32	0.14	923HVO
J1	Magnetic retriever with fixed head and nonslip solvent-resistant comfort grip.	7.0 (3.175)	SS	5/8	6-1/2	32	0.18	924
J2	Same as Model No. 924 in Hi-Vis orange.	7.0 (3.175)	SS	5/8	6-1/2	32	0.18	924HVO
J1	Magnetic retriever with fixed head and nonslip solvent-resistant comfort grip.	20.0 (9.072)	ZP	1-1/8	16-1/2	29	0.65	990SM
J1	Extra-long, heavy duty, retriever magnet with fixed head & nonslip solvent-resistant comfort grip.	14.0 (6.350)	ZP/SS	5/8	23-1/2	50	0.42	926

	Flexible/Bendable Shaft Retrievers & Tools Description	Lift - lbs (kg)	Shaft	Dia. (in)	Ln. (in)	Wt. (lbs)	Model No.
K	Rigid retrieving tool that becomes flexible by removing wire rod from the shaft.	1.5 (0.680)	ZP	5/16	18	0.18	918F
L	Flexible retriever with fixed head and nonslip solvent-resistant comfort grip	8.0 (3.629)	ZP	1/2	21	0.25	921
M1	Flexible, dual purpose allows you to get in and around awkward spots. Bend shaft to a permanent position or remove inside wire to snake into position.	3.0 (1.361)	ZP	3/8	20	0.31	928S
M2	Flexible, dual purpose allows you to get in and around awkward spots. Bend shaft to a permanent position or remove inside wire to snake into position.	7.0 (3.175)	ZP	5/8	20	0.35	929S
N	Bendable retriever that holds its shape. Magnet is retracted until the button is pushed.	2.0 (0.907)	ZP	5/16	17	0.26	915RM
O	Flexible retriever has a spring shaft that allows it to snake through tight areas. The magnet is retracted until the button is pushed.	2.0 (0.907)	ZP	3/8	24	0.29	922RM
P1	Bendable copper shaft magnetic retriever. Fits into tight spots. Knurled aluminum handle.	3.0 (1.361)	CO	5/16	25	0.11	900WF
P2	Bendable copper shaft magnetic retriever. Fits into tight spots. Knurled aluminum handle.	0.5 (0.227)	CO	0.175	20	0.08	900WFT

	Mechanical Finger Retrievers & Tools Description	Lift - lbs (kg)	Shaft	Dia. (in)	Ln. (in)	Wt. (lbs)	Model No.
Q	Flexible 2-jaw Mechanical Finger with spring/plunger handle control. Finger span of 1".	12.0 (5.443)	ZP	3/8	17	0.25	715CF
R1	Flexible 4-jaw Mechanical Finger with spring/plunger handle control. Finger span of 1".	10 (4.536)	ZP	1/2	13-1/2	0.20	612
R2	Flexible 4-jaw Mechanical Finger with spring/plunger handle control. Finger span of 1".	10	ZP	1/2	23-1/2	0.30	622
S1	Rigid 2-jaw Mechanical Finger with spring/plunger handle control. Finger span of 1".	12.0 (5.443)	ZP	3/16	8	0.15	708
S2	Rigid 2-jaw Mechanical Finger with spring/plunger handle control. Finger span of 1".	12.0 (5.443)	ZP	3/16	12	0.22	712

Shaft Material: AL = Aluminum, CO = Copper, CP = Chrome Plated Steel, NY = Nylon, SS = Stainless Steel & ZP = Zinc Plated Steel.

LIGHTED MAGNETIC PICK-UP TOOL

Rare Earth, telescoping, magnetic retriever with built in light. Uses 3 LR44 watch-type batteries (included).

Description	Lift - lbs (kg)	Shaft	Magnet (in)	Magnet Head	Length (in)	Weight (lbs)	Model No.
Lighted	22 (9.98)	Stainless Steel	11/16	Fixed	7-1/2 – 32	0.20	MRT910L

NO-MAR® NO BOUNCE SAFETY POLYURETHANE HAMMER

Features

- True Safety Hammer (No Steel, Non-Sparking)
- High Performance Urethane Head. Shore A70
- Fiberglass Handle with Ergonomic Grip
- Absorbs Recoil Shock

Head Face Dia. (in)	Head Length (in)	Handle Length (in)	OAL (in)	Weight (lbs)	Model No.
1-5/8	2-15/16	9-1/4	11-1/4	0.625	HU162
1-7/8	3-1/8	12-1/2	14-1/2	1	HU187
2-1/16	4	12	14-1/4	1.38	HU206
2-5/8	5-1/8	12-1/2	14-1/4	2	HU262

NO-MAR® LEAD HAMMER

Features

- Genuine 4% Antimonial Lead
- Head Secured by Locking Pin
- Designed for NO-RECOIL and NO-MAR Blows with Max Impact
- Vinyl Grip for More Comfort & Less Fatigue
- Conforms to ASME B107.400 - 2018

Head Face Dia. (in)	Head Length (in)	Handle Length (in)	OAL (in)	Weight (lbs)	Model No.
3/4	2-5/8	9	10	1	HL075-01
1-1/8	2-5/8	8-1/2	10	2	HL112-02
1-9/16	3-1/8	8-3/4	10-1/2	3	HL156-03
1-5/8	3-3/4	9	11	5	HL162-05

NO-MAR® BRASS SAFETY HAMMER

Features

- High Purity Brass Head
- Non-Sparking & Non-Magnetic
- Exceptional Long Life Head
- Fiberglass Handle with Ergonomic Grip
- Conforms to ASME B107.400 - 2018

Head Face Dia (in)	Head Length (in)	Handle Length (in)	OAL (in)	Weight (lbs)	Model No.
7/8	1-7/8	11	12	0.5	HB087-00
1	2-5/8	12-1/2	14	1	HB100-01
1-1/4	3-5/8	12-1/2	14	2	HB125-02
1-1/2	3-3/4	12	14	3	HB150-03
1-3/4	4-3/8	12	14	4	HB175-04
1-7/8	3-3/4	12	14	5	HB187-05
2	7	18-1/2	21	10	HB200-10

NO-MAR® PRESS-ON TIP HAMMER

Features

- Designed for Recoilless Blow With Max Impact
- Replaceable Polyurethane Press-On Tips
- Red Tip Shore D45 Durometer, Cream Tip Shore D65 Durometer
- Fiberglass Handle with Ergonomic Grip
- Non-Rusting, Precision Balanced, Machined Steel Head

Head Face Dia. (in)	Head Length (in)	Handle Length (in)	OAL (in)	Weight (oz)	Model No.
5/8	2-1/4	10	10-3/4	3.75	HP062
3/4	2-1/2	10-1/2	11-1/4	4.5	HP075
1	3-1/4	11	12-1/4	8	HP100
1-1/4	3-1/4	11	12-1/2	12	HP125
1-1/2	4	12	14-1/2	20	HP150

FRUGG DUAL PURPOSE HAMMER

Features

- Hard Face and Soft Face In One Hammer
- Precision Machined Head for Excellent Balance
- Durable, Replaceable No-Mar® Urethane Shore D45 Durometer Tip
- Steel Head is Heat-Treated
- Brass Head is Non-Sparking Safety Hammer
- Conforms to ASME B107.400 - 2018

Head Type	Head Dia. (in)	Head Length (in)	Handle Length (in)	OAL (in)	Weight (lbs)	Model No.
Steel	1-1/4	4 1/4	11	12-1/4	1.15	HF125US
Brass	1-1/4	4 1/4	11	12-1/4	1.2	HF125UB

MAG-MATE® LATCHES, BUMPERS & DOOR HOLDERS/STOPS

MAGNETIC DOOR LATCHES

These extremely powerful Rare Earth magnetic latches have a very thin profile. Ideal for door & cabinet applications or for mounting panels, signs, pictures, etc. Plated magnet, washers and screws reduce corrosion. Washers are recessed to allow the screw head to set below the contact area.

Features
- ML050 uses 3M VHB Adhesive on the magnet
- Screw(s) included are #6 x 5/8" long

	Magnet			Strike Plate				
Hold - lbs (kg)	O.D. (in)	Depth (in)	I.D. (in)	O.D. (in)	Depth (in)	I.D. (in)	Weight (lbs)	Model No.
2 (0.91)	0.50	0.06	N/A	0.56	0.070	0.221	0.0001	ML050
13 (5.90)	0.75	0.12	0.18	0.70	0.070	0.221	0.01	ML075
37 (16.78)	0.98	0.31	0.21	1.00	0.070	0.221	0.05	ML098

MAGNETIC RUBBER BUMPERS

Adding a rubber bumper is faster than ever with a magnetic attachment. No more drilling/tapping holes to mount a bumper. Simply attach the magnetic bumper to a steel surface, slide it to the exact location and you are done.

Features
- Incredibly strong Rare Earth magnetic hold
- Abrasion-resistant SBR rubber
- Durometer is 65A to 80A
- Temperature range is 0° to 180°F
- Indoor use only

B705W5006

B727W5006

B755W7506

B116W7506

Hold - lbs (kg)	Diameter (in)	Length (in)	Weight (lbs)	Model No.
5.0 (2.27)	1/2	3/8	0.01	B705W5006
5.0 (2.27)	5/8	3/8	0.01	B727W5006
15.3 (6.94)	3/4	1/2	0.01	B755W7506
15.3 (6.94)	7/8	5/8	0.05	B116W7506
16.5 (7.48)	1-1/32	3/4	0.05	B785W10006

MAGNETIC DOOR HOLDERS/STOPS

CONNEX

Powerful Rare Earth magnetic connection systems can be used to hold doors & cabinets in the open position or to attach key rings, knives & tools in both indoor and outdoor applications. Ideal for workshops, home, office, garage, RV or marine settings. Magnets are embedded inside a non-marring housing and come with several different mounting options, including adhesive, screws or rivets.

D3X1BL

D3X1BLP

D3X2BL

Magnetic Connectors
- ABS plastic housing
- 3M adhesive backing

Trailer/Wall Mount Models
- Non-marring EPDM* rubber housing
- Mounting screws included

Floor Mount Models
- Non-marring EPDM* rubber housing
- Powder coated steel floor bracket
- Mounting screws included

D1BL

D1WH

D3X1BKT

D3X2BKT

Magnetic Connector Models (Black or White)							
Hold - lbs (kg)	Description	Flange Diameter (in)	Magnet Diameter (in)	Projects (in)	Weight (lbs)	Magnet Color	Model No.
5.5 (2.49)	2 Magnets	1-1/2	3/4	9/16	0.05	Black	D1BL
5.5 (2.49)	2 Magnets	1-1/2	3/4	9/16	0.05	White	D1WH

Trailer Mount Model							
Hold - lbs (kg)	Description	Flange Diameter (in)	Magnet Diameter (in)	Projects (in)	Weight (lbs)	Magnet Color	Model No.
27 (12.25)	1 Magnet, 1 Hardware	3-1/2	1-3/8	1-3/8	0.45	Black	D3X1BL
27 (12.25)	1 Magnet, 1 Plate, Hardware	3-1/2	1-3/8	1-3/8	0.65	Black	D3X1BLP
31 (14.06)	2 Magnets, Hardware	3-1/2	1-3/8	2-3/4 ea.	0.90	Black	D3X2BL

*Note: Models with 2 magnets project farther than most door knobs. *EPDM = Ethylene Propylene Diene Monomer (Type of Synthetic Rubber)*

Floor Mount Model							
Hold - lbs (kg)	Description	Flange Diameter (in)	Magnet Diameter (in)	Projects (in)	Weight (lbs)	Magnet Color	Model No.
27 (12.25)	1 Magnet, 1 Plate, 1 Bracket, Hardware	3-1/2	1-3/8	2-3/4	2.20	Orange	D3X1BKT
31 (14.06)	2 Magnets, 1 Plate, 1 Bracket, Hardware	3-1/2	1-3/8	2-3/4 ea	2.45	Orange/Black	D3X2BKT

*Note: Models with 2 magnets project farther than most door knobs. *EPDM = Ethylene Propylene Diene Monomer (Type of Synthetic Rubber)*

HANDS-FREE FOOT & ARM PULLS FOR DOORS

FOOT OPERATED, HANDS-FREE DOOR OPENERS

This hands-free device lets you gently pull or push open latch-less doors using the sole of your shoe - so users don't have to touch potentially contaminated surfaces and can help stop the further spread of germs and bacteria. Perfect for public restrooms and other swing-style doors. Prevents shoe damage and can be used with open toe shoes. Constructed from heavy-duty stainless-steel as a one piece, laser-cut and precision formed unit. Available with either magnetic mount for metal doors, which attaches in seconds and can be repositioned to the perfect spot, or direct through-hole mount for non-metal doors. Available in high-vis yellow.

Features
- Sturdy, one-piece, Stainless Steel construction
- Indoors or Outdoors
- USA M.A.D.E

Magnet Mount						
Hold – Lbs. (kg)	**Height (in)**	**Width (in)**	**Projects (in)**	**Weight (lb)**	**Color**	**Model No.**
80 (36.29)	5	2-1/2	4-3/8	1.5	Silver	FP01M
80 (36.29)	5	2-1/2	4-3/8	1.5	Yellow	FP01MHVY

Through Hole Mount						
Mounting Hole (in)	**Height (in)**	**Width (in)**	**Projects (in)**	**Weight (lb)**	**Color**	**Model No.**
0.2" (1/4-20)	5	2-1/2	4	0.9	Silver	FP01
0.2" (1/4-20)	5	2-1/2	4	0.9	Yellow	FP01HVY

ARM OPERATED, HANDS-FREE DOOR OPENERS

This hands-free device lets you gently pull or push open latch-less doors using your forearm, wrist or elbow - so users don't have to touch potentially contaminated surfaces and can help stop the further spread of germs and bacteria. Perfect for public restrooms and other swing-style doors. Constructed from heavy-duty stainless-steel as a one piece, laser-cut and precision formed unit. Available with either magnetic mount for metal doors, which attaches in seconds and can be repositioned to the perfect spot, or direct through-hole mount for non-metal doors. Mount on door approximately 40-45" from the floor. For hollow core doors, use through bolts

Features
- Sturdy, one-piece, Stainless Steel construction
- Position Arm Pull either pointing up, down or sideways.
- Indoors or Outdoors
- USA M.A.D.E

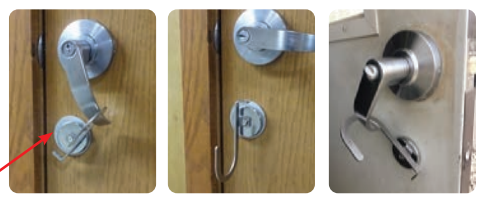
Magnet Mount					
Hold – Lbs. (kg)	**Height (in)**	**Width (in)**	**Projects (in)**	**Weight (lb)**	**Model No.**
80 (36.29)	5	2-1/2	5-11/16	2.02	AP01M

Through Hole Mount (hardware not included)					
Mounting Hole (in)	**Height (in)**	**Width (in)**	**Projects (in)**	**Weight (lb)**	**Model No.**
0.27" (1/4-20)	5	2-1/2	5-3/8	1.69	AP01

FOR LATCHED DOORS – HANDS-FREE DOOR OPENER

For latching doors with lever-style handles, our Universal J-Hook can be used to hold the door handle in the open position – converting it into a latchless-style door that can now be used in conjunction with the Foot or Arm Pull. The MX2000JH Universal Stainless Steel J-Hook attaches directly to steel doors. For non-steel doors, use in combination with our MX0870 Magnetic-Stainless Disk that you can mount to your door as an attachment base for the J-Hook.

Features
- USA M.A.D.E



Universal J-Hook Magnet				
Hold – Lbs. (kg)	**Magnet Dia (in)**	**Overall Length (in)**	**Weight (lb)**	**Model No.**
42 (19.05	2.03	5.00	0.25	MX2000JH

Magnetic Stainless-Steel Disk (hardware not included)				
Diameter (in)	**Thickness (in)**	**Mounting Hole (in)**	**Weight (lb)**	**Model No.**
2.5	0.10	0.19	0.14	MX0870

MAG-MATE® MAGNETIC SWEEPERS

MAGNETIC FLOOR & SHOP SWEEPERS

SS: Works on hard floors or carpeted areas. Clean shops, offices, retail stores right up to the edge of walls, machinery into corners with its unique wheel design.
FS/IS: Ideal for floors, parking lots and construction sites (IS is Self Cleaning).

Magnet Width (in)	Overall Width (in)	Depth (in)	Height (in)	Wheel Diameter (in)	Clearance (in)	Hold (lbs)*	Weight (lbs)	Model No.
19	19-1/2	3	52	1-1/4	3/4	30	7.0	SS1800
12	16-1/2	5	48	6	1-3/4	80	11.0	FS1200
24	28-1/2	5	48	6	1-3/4	160	22.0	FS2400
36	40	5	48	6	1-3/4	240	31.0	FS3600
								IS1400
24	29-1/2	7-1/2	49-1/2	6	1-3/4	400	46.0	IS2400

***Note:** Sweepers are designed for attracting ferrous metal pieces and debris and are not designed for lifting heavy objects. The Hold rating is measured by a vertical pull test from a 0.5" thick ground steel plate for purpose of magnetic strength comparisons only.

MAGNETIC SUSPENDED SWEEPERS

YS: Aluminum and stainless steel construction for outdoor use. Hang the sweeper from vehicles, utility equipment or skid-steers.

Magnet Width (in)	Overall Width (in)	Depth (in)	Height (in)	Wheel Diameter (in)	Clearance (in)	Hold (lbs)*	Weight (lbs)	Model No.
36	36-1/2	5	2-11/16	-	-	320	39.0	YS3600
48	48-1/2	5	2-11/16	-	-	426	52.0	YS4800
60	60-1/2	5	2-11/16	-	-	532	86.0	YS6000
84	84-1/2	5	2-11/16	-	-	745	91.0	YS8400

ROAD/TOWABLE ELECTROMAGNETIC SWEEPERS

A towable electromagnetic sweeper design that is supplied with wheels, pneumatic tires, adjustable towbar, and parking stand. Stand folds up into the towbar when not in use. All units can be supplied with a heavy duty 115volt AC generator mounted to the top. Generators are powered by a 4 stroke OHV gasoline engine and are energized and de-energized using the 115 VAC “ON” – “OFF” switch on the generator. A remote switch on 20ft of cable is available upon request.

Sweeping Width (in)	Overall Width (in)	Depth (in)	Height (in)	Adjustable Ground Clearance (in)	Hold (lbs)	Weight (lbs)	Model No.
60	73	20	32	4-10		2600	RSE060
72	84	20	39	4-10		3000	RSE072
96	108	20	39	4-10		3500	RSE096
120	132	20	39	4-10		3900	RSE120

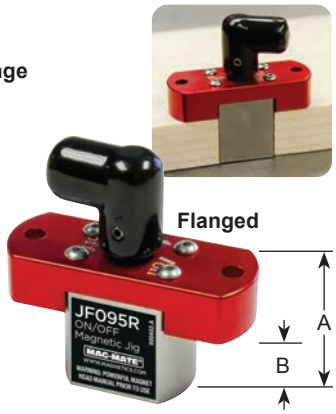
***Note:** Sweepers are designed for attracting ferrous metal pieces and debris and are not designed for lifting heavy objects. The Hold rating is measured by a vertical pull test from a 0.5" thick ground steel plate for purpose of magnetic strength comparisons only.

MAGNETIC JIGS, STRIPS & SHEETS

ON/OFF RARE EARTH JIG MAGNETS

Features
- Easy On/Off controls for fast, strong, and precise positioning
- Use at least two per fixture; add more for even greater holding force.
- Jigs flange 0.50” thick secured with two #8 screws (hole size 0.194) will mount flush on 3/4” board – Use 40mm Forstner bit for large Jigs & 30mm for small Jigs.
- Mounting hole spacing: JF095R 1.811", JF155R 2.205"

Non-Flange



Flanged

Hold - lbs (kg)	Description	Magnet Dia. (in)	Magnet Dia. (mm)	Overall Dimensions Height(in)	Overall Dimensions Width (in)	Overall Dimensions Length (in)	A Height (in)	B Depth (in)	Weight (lbs)	Model No.
95.0 (43.09)	Non-Flange	1.18	30	2.18	0.85	1.18	1.25	1.00	0.30	JP095R
155.0 (70.30)	Non-Flange	1.57	40	2.18	1.25	1.57	1.25	1.00	0.55	JP155R
95.0 (43.09)	Flanged	1.18	30	2.18	0.85	2.25	1.25	0.75	0.35	JF095R
155.0 (70.30)	Flanged	1.57	40	2.18	1.25	2.64	1.25	0.75	0.60	JF155R

FLEXIBLE MAGNETIC STRIPS

In general, the following tolerances apply to all Magnetic Strips: Thickness: ±0.005’’, Widths: 0’’ to 2’’ = ±0.015’’ or 2’’ to 3’’ = ±0.030’’, Lengths: ±1% or ±0.015’’ whichever is greater. Temperature Range: operating temperatures -15°F to 160°F (-26°C to 71°C).

Features
- Conforms to any contour
- Can be cut, drilled or shaped
- Available in plain or adhesive back

Plain Back

Adhesive Back

Hold - lbs (kg) per linear foot	Thickness (in)	Width (in)	Length (ft)	Weight (lbs)	Model No. Plain Back	Model No. Adhesive Back
2.0 (0.90)	1/32	1/2	25	0.58	MRN030X0050X025	MRA030X0050X025
2.0 (0.90)	1/32	1/2	50	1.15	MRN030X0050X050	MRA030X0050X050
2.0 (0.90)	1/32	1/2	100	2.3	MRN030X0050X100	MRA030X0050X100
2.0 (0.90)	1/32	1/2	200	4.6	MRN030X0050X200	MRA030X0050X200
3.0 (1.36)	1/32	3/4	50	1.7	MRN030X0075X050	MRA030X0075X050
3.0 (1.36)	1/32	3/4	100	3.4	MRN030X0075X100	MRA030X0075X100
3.0 (1.36)	1/32	3/4	200	6.8	MRN030X0075X200	MRA030X0075X200
4.0 (1.81)	1/32	1	25	1.15	MRN030X0100X025	MRA030X0100X025
4.0 (1.81)	1/32	1	50	2.3	MRN030X0100X050	MRA030X0100X050
4.0 (1.81)	1/32	1	100	4.6	MRN030X0100X100	MRA030X0100X100
4.0 (1.81)	1/32	1	200	9.2	MRN030X0100X200	MRA030X0100X200
12.0 (5.44)	1/32	3	25	3.75	MRN030X0300X025	N/A
12.0 (5.44)	1/32	3	50	7.5	MRN030X0300X050	N/A
12.0 (5.44)	1/32	3	100	15.0	MRN030X0300X100	N/A
12.0 (5.44)	1/32	3	200	30.0	MRN030X0300X200	N/A
3.0 (1.36)	1/16	1/2	25	1.1	MRN060X0050X025	MRA060X0050X025
3.0 (1.36)	1/16	1/2	50	2.2	MRN060X0050X050	MRA060X0050X050
3.0 (1.36)	1/16	1/2	100	4.4	MRN060X0050X100	MRA060X0050X100
5.0 (2.26)	1/16	3/4	25	1.65	MRN060X0075X025	MRA060X0075X025
5.0 (2.26)	1/16	3/4	50	3.3	MRN060X0075X050	MRA060X0075X050
5.0 (2.26)	1/16	3/4	100	6.6	MRN060X0075X100	MRA060X0075X100
6.0 (2.72)	1/16	1	25	2.2	MRN060X0100X025	MRA060X0100X025
6.0 (2.72)	1/16	1	50	4.4	MRN060X0100X050	MRA060X0100X050
6.0 (2.72)	1/16	1	100	8.8	MRN060X0100X100	MRA060X0100X100
18.0 (8.16)	1/16	3	100	30.0	MRN060X0300X100	MRA060X0300X100
4.0 (1.81)	1/8	1/2	50	5.0	MRN120X0050X050	MRA120X0050X050
4.0 (1.81)	1/8	1/2	100	10.0	MRN120X0050X100	MRA120X0050X100
6.0 (2.72)	1/8	3/4	50	7.0	MRN120X0075X050	MRA120X0075X050
6.0 (2.72)	1/8	3/4	100	14.0	MRN120X0075X100	MRA120X0075X100
8.0 (3.63)	1/8	1	50	9.5	MRN120X0100X050	MRA120X0100X050
8.0 (3.63)	1/8	1	100	19.0	MRN120X0100X100	MRA120X0100X100
24.0 (10.89)	1/8	3	50	38.0	MRN120X0300X050	MRA120X0300X050
24.0 (10.89)	1/8	3	100	56.0	MRN120X0300X100	MRA120X0300X100

WHITE MAGNETIC SHEETING

Use in your office, manufacturing, air vent covers or inventory for labeling applications or advertising.

Features
- Can be cut, drilled or shaped
- Conforms to any contour
- Can be written on
- 1/32” thick
- 24-3/8” width

Hold - lbs (kg) per square foot	Length (ft)	Weight (lbs)	Model No.
85.0 (38.55)	1	1.15	MRS030X2437X001
85.0 (38.55)	10	13	MRS030X2437X010
85.0 (38.55)	25	31	MRS030X2437X025

MAG-MATE® CYLINDRICAL FIXTURE MAGNET ASSEMBLIES

A

B

C

D

E

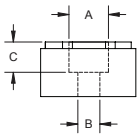
F

G&H

I

J&K

L



	A	B	C
AR1501	.370	.280	.500
AR1502	.500	.280	.500
AR1504	.780	.500	.810

CYLINDRICAL FIXTURE ASSEMBLIES

A1: Rare Earth Neodymium 1-Pole magnet in an Aluminum insulated cup. Powerful compact magnet that can be press fit or use tapped hole for mounting. +/- .003" diameter & .015" length. Maximum temperature 180°F (82°C).

A2: Max-Attach™ Rare Earth Neodymium in an Aluminum insulated cup. Multi-pole compact magnet that can be press fit or use tapped hole for mounting. +/- .003" diameter & .015" length. Maximum temperature 180°F (82°C).

B: Rare Earth 3-Pole magnet in an Aluminum insulated cup. Extended poles can be lightly machined. Can be press fit or use tapped hole for mounting. +/- .003" diameter & .015" length. Maximum temperature 180°F (82°C).

C: Rare Earth Neodymium 4-Pole magnet in an Aluminum insulated cup. Extended poles can be lightly machined. Can be press fit or use thru-hole for mounting. +/- .008" diameter & +/- .015" length. Maximum temperature 180°F (82°C).

D: Rare Earth Neodymium 3-Pole magnet in an Aluminum insulated cup. Maximum strength in a compact package. Can be press fit or use thru-holes for mounting. +/- .008" dia. & +/- .015" length. Maximum temperature 180°F (82°C). Mounting hole center 1-13/16".

E: Rare Earth Neodymium Island 2-Pole magnet in a steel cup. Ideal for shallow fixtures. Can not be press fit without additional insulation. Use tapped hole for mounting. +/- .005" dia. & +/- .015" length. Maximum temperature 180°F (82°C).

F: Rare Earth Neodymium parallel 2-Pole magnet in an Aluminum insulated cup. Flush face magnet, can be press fit or use tapped hole for mounting. +/- .008" diameter & +/- .015" length. Maximum temperature 180°F (82°C).

G: Rare Earth Neodymium parallel 2-Pole magnet in a brass insulated cup. Ideal for metric press fit applications. +/- .002" diameter & length. Maximum temperature 180°F (82°C).

H: Rare Earth Samarium Cobalt parallel 2-Pole magnet in a brass insulated cup. Ideal for high heat metric press fit applications. +/- .002 diameter & length. Maximum temperature 392°F (200°C).

I: Alnico Island 2-Pole magnet in a steel cup. Especially effective in mold applications. Can not be press fit without additional insulation. Use tapped hole for mounting. +/- .005" diameter & +/- .015" length. Maximum temperature 800°F (427°C).

J: Alnico magnet material shielded in a non-conductive sleeve, 1-Pole on each end. Insulator prevents loss of magnetic flux when inserted into steel components or fixtures. No mounting holes. +/-.001" diameter & +/- .005" length. Maximum temperature 800°F (427°C).

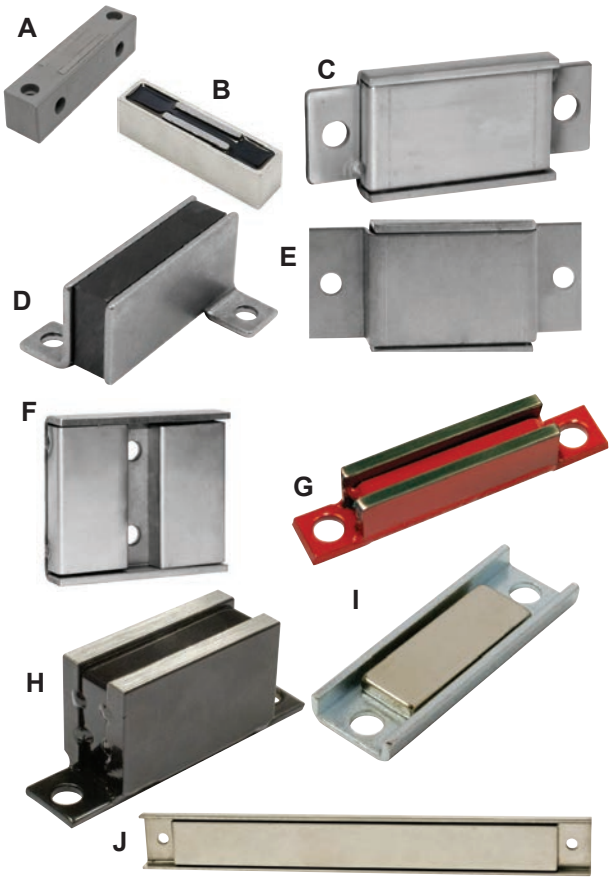
K: Rare Earth Neodymium magnet material shielded in a non-conductive sleeve, 1-Pole on each end. Insulator prevents loss of magnetic flux when inserted into steel components or fixtures. No mounting holes. +/- .001 diameter & +/- .005" length. Maximum temperature 180°F (82°C).

L: Alnico Multi-Pole magnet in an Aluminum insulated cup. Very effective on thin metal or difficult applications. Counter sunk mounting hole for easy installation. +/- .006" diameter & +/- .015" length. Maximum temperature 300°F (148°C).

	Hold - lbs (kg)	Dia. (in)	Ln. (in)	Tap Size	Depth	Wt. (lbs)	Model No.
A1	0.25 (0.11)	1/4	1/2	#6-32	1/4	0.01	N250T
A1	1.30 (0.59)	3/8	1/2	#8-32	1/4	0.01	N375T
A1	2.65 (1.20)	1/2	1/2	#10-24	1/4	0.01	N500T
A1	4.35 (1.97)	5/8	1/2	#10-24	1/4	0.02	N625T
A1	6.00 (2.72)	3/4	1/2	#10-24	1/4	0.03	N750T
A1	7.50 (3.40)	1	1/2	#1/4-20	1/4	0.06	N1000T
A2	7.80 (3.54)	3/4	1/2	#10-24	1/4	0.03	CMP750T
A2	10.4 (4.72)	1	1/2	#1/4-20	1/4	0.06	CMP1000T
B	15.50 (7.03)	1	3/4	#1/4-20	1/4	0.08	N3T1002
B	26.00 (11.79)	1-1/4	3/4	#5/16-18	1/4	0.14	N3T1252
C	45.00 (20.41)	2	1/2	#1/4 - Flat	-	0.18	C4H2000
C	50.00 (22.68)	2	3/4	#1/4 - Flat	-	0.26	C4H2002
C	60.00 (27.21)	2	1	#1/4 - Flat	-	0.33	C4H2004
C	90.00 (40.82)	2-1/2	1	#1/4 - Flat	-	0.53	C4H2504
D	145.00 (65.77)	3	1	#1/4 - Flat	-	1.23	C5H3004
E	3.00 (1.36)	3/8	1/2	#8-32	.100	0.02	R375
E	8.00 (3.63)	1/2	1/2	#10-32	.120	0.03	R500
E	22.00 (9.98)	3/4	1/2	#10-32	.150	0.06	R750
E	46.00 (20.86)	1	1/2	#1/4-20	.150	0.10	R1000
E	50.00 (22.68)	1-1/4	1/2	#5/16-18	.150	0.16	R1250
F	18.00 (8.16)	3/4	1-3/16	#1/4-20	1/4	0.10	NT750
F	43.00 (19.50)	1	1-5/16	#1/4-20	5/16	0.20	NT1000
F	102.00 (46.26)	1-1/2	2-1/16	#5/16-18	5/16	0.60	NT1500
F	172.00 (78.01)	2	2-7/16	#3/8-16	5/16	1.30	NT2000
G	0.90 (0.41)	06 mm	20 mm	-	-	0.02	PF06N
G	4.40 (1.99)	10 mm	20 mm	-	-	0.03	PF10N
G	6.60 (2.99)	13 mm	20 mm	-	-	0.04	PF13N
G	13.80 (6.26)	16 mm	20 mm	-	-	0.06	PF16N
G	25.40 (11.52)	20 mm	25 mm	-	-	0.14	PF20N
H	0.90 (0.41)	06 mm	20 mm	-	-	0.02	PF06S
H	4.40 (1.99)	10 mm	20 mm	-	-	0.03	PF10S
H	6.60 (2.99)	13 mm	20 mm	-	-	0.04	PF13S
H	13.80 (6.26)	16 mm	20 mm	-	-	0.06	PF16S
H	25.40 (11.52)	20 mm	25 mm	-	-	0.14	PF20S
H	44.10 (20.00)	25 mm	35 mm	-	-	0.30	PF25S
I	0.72 (0.32)	3/8	1/2	#8-32	3/32	0.02	A375
I	1.13 (0.51)	1/2	1/2	#10-32	5/32	0.03	A500
I	1.54 (0.70)	1/2	3/4	#10-32	3/16	0.04	A502
I	1.19 (0.54)	5/8	1/2	#10-32	5/32	0.07	A625
I	2.69 (1.22)	3/4	1/2	#10-32	5/32	0.06	A750
I	4.56 (2.07)	3/4	3/4	#10-32	1/4	0.06	A752
I	4.69 (2.13)	3/4	1	#10-32	1/4	0.08	A754
I	4.00 (1.81)	1	1/2	#1/4-20	5/32	0.11	A1000
I	7.25 (3.29)	1	1	#1/4-20	9/32	0.21	A1004
I	12.50 (5.67)	1-1/4	1-1/4	#1/4-20	9/32	0.39	A1256
				Wall Th.			
J	0.025 (0.0113)	3/16	1/4	0.018	-	0.01	ABS1825
J	0.040 (0.0181)	3/16	1/2	0.018	-	0.01	ABS1850
J	0.055 (0.0249)	1/4	1/4	0.032	-	0.01	ABS2525
J	0.140 (0.0635)	1/4	1/2	0.032	-	0.01	ABS2550
J	0.060 (0.0272)	5/16	1/4	0.032	-	0.01	ABS3125
J	0.175 (0.0793)	5/16	1/2	0.032	-	0.01	ABS3150
J	0.100 (0.0453)	3/8	3/8	0.032	-	0.01	ABS3737
J	0.200 (0.0907)	3/8	3/4	0.032	-	0.01	ABS3775
J	0.225 (0.1021)	1/2	1/2	0.032	-	0.03	ABS5050
J	0.680 (0.3084)	3/4	3/4	0.062	-	0.06	ABS7575
K	0.13 (0.059)	1/8	1/4	0.018	-	0.01	RBS1225
K	0.37 (0.168)	3/16	1/4	0.032	-	0.01	RBS1825
K	0.88 (0.399)	1/4	1/4	0.032	-	0.01	RBS2525
K	0.95 (0.043)	1/4	1/2	0.032	-	0.01	RBS2550
K	1.00 (0.45)	5/16	1/4	0.032	-	0.01	RBS3125
K	2.63 (1.19)	3/8	3/8	0.032	-	0.01	RBS3737
K	3.13 (1.42)	1/2	1/4	0.062	-	0.03	RBS5025
K	4.63 (2.10)	1/2	1/2	0.062	-	0.03	RBS5050
K	7.50 (3.40)	3/4	3/8	0.062	-	0.05	RBS7537
				Socket	**Poles**		
L	8.00 (3.63)	1-1/8	25/32	#1/4-20	4	0.10	AR1501
L	12.00 (5.44)	1-3/8	25/32	#1/4-20	6	0.30	AR1502
L	35.00 (15.88)	2-1/2	1-9/32	#1/2-13	8	1.30	AR1504

RECTANGULAR FIXTURE ASSEMBLIES

	Hold - lbs (kg)	Thick. (in)	Width (in)	Length (in)	No. of Poles	Hole Diameter (in)	Weight (lbs)	Model No.
A	22.5 (10.21)	1-1/4	1	4-1/2	2	-	0.64	AC2100
A	27.5 (12.48)	1-1/4	1	4-1/2	2	-	0.65	AC2101
A	32.5 (14.75)	1-1/4	1	4-1/2	2	-	0.66	AC2102
A	80.0 (36.29)	1-1/4	1	4-1/2	2	-	0.66	AC2102R
B	39.0 (17.69)	1-1/4	1-1/4	4-1/2	2	-	0.84	AC2103
B	59.0 (26.76)	1-1/4	1-1/4	4-1/2	3	-	0.88	AC2201
B	65.0 (29.49)	1-1/4	1-7/8	4-1/2	3	-	1.19	AC2203
B	79.0 (35.83)	1-1/4	1-7/8	4-1/2	3	-	1.28	AC2204
B	95.0 (43.10)	1-1/4	1-1/4	4-1/2	2	-	0.84	AC2103R
B	115.5 (52.39)	1-1/4	2-1/2	4-1/2	4	-	1.75	AC2303
B	178.0 (80.74)	1-1/4	1-7/8	4-1/2	3	-	1.28	AC2204R
					Ctrs (in)			
C	12.5 (5.67)	3/8	1-3/8	3-1/4	2-5/8	0.28	0.10	LP2100
C	43.5 (19.73)	3/8	1-3/8	3-1/4	2-5/8	0.28	0.20	LP2100R
C	13.5 (6.12)	7/16	1-3/8	3-1/4	2-5/8	0.28	0.30	LP2101
C	14.5 (6.58)	7/16	1-3/8	3-1/4	2-5/8	0.28	0.30	LP2102
C	15.5 (7.03)	9/16	1-3/8	3-1/4	2-5/8	0.28	0.30	LP2103
D	17.5 (7.94)	1	1-5/8	2	1-1/2	0.22	0.20	5C2565
E	10.0 (4.54)	5/8	1-15/64	3-5/8	2-7/8	0.25	0.10	SS2103
E	15.0 (6.81)	5/8	1-5/8	3-5/8	2-7/8	0.25	0.30	SS2100
F	31.0 (14.06)	9/16	2-3/8	2-3/4	1-1/4	0.28	0.50	WH2100
G	32.0 (14.52)	5/8	1/2	3	2-1/2	0.28	0.10	MX10354
H	40.0 (18.14)	1-3/8	7/8	3-1/4	2-3/4	0.28	0.55	BP0040
H	60.0 (27.21)	1-3/8	1-1/4	3-1/4	2-3/4	0.28	0.70	BP0060
H	120.0 (54.43)	1-3/8	1-1/4	5-1/4	4-1/2	0.28	1.35	BP0120
H	250.0 (113.39)	2-1/4	1-7/8	5-1/4	4-1/2	0.28	3.25	BP0250
I	14.0 (6.35)	3/16	9/16	1-3/4	1.47	0.19	0.10	MX0477
J	9.0 (4.09)	9/16	1	2-1/2	2	0.28	0.20	LC2360
J	21.0 (9.53)	9/16	1	4-1/2	4	0.28	0.40	LC2361
J	29.0 (13.16)	9/16	1	6-1/2	6	0.28	0.60	LC2362
J	88.0 (39.92)	9/16	1	18-1/2	18	0.28	1.80	LC2364
J	25.0 (11.34)	11/32	1-1/2	12	11	0.28	1.12	MQ1129
J	63.0 (28.58)	5/8	1-1/2	12	11	0.28	1.62	MQ1130
J	150.0 (68.04)	5/8	2-1/2	12	11	0.28	2.74	MQ1132



A: Ceramic magnet, 2, 3 or 4-Pole assembly potted in an aluminum housing. Effective for holding heavy parts and holding against shear forces. Supplied without mounting holes, they can be drilled, tapped, milled, etc. on either end of the magnet. Maximum temperature 300°F (148°C). USA M.A.D.E.™

B: Rare Earth magnet material, 2 or 3-Pole assembly potted in an aluminum housing. Effective for holding heavy parts and holding against shear forces. Supplied without mounting holes, they can be drilled, tapped, milled, etc. on either end of the magnet. Maximum temperature is 180°F (82°C). USA M.A.D.E.™

C: Ceramic magnet (except LP2100R is Rare Earth) placed in a 400 Stainless Steel channel covered with 300 stainless steel. Use 1/4”-20 (m6) bolt or screws for mounting this non-corrosive 2-pole assembly. Maximum temperature 300°F (148°C). Rare Earth maximum temperature is 180°F (82°C). USA M.A.D.E.™

D: Ceramic magnet sandwiched between steel pole pieces. Use 10-32 (m5) bolt or screws for mounting this non-corrosive 2-Pole assembly. Maximum temperature 300°F (148°C).

E: Paint Rack magnet uses a 400 Stainless Steel channel covered with 300 stainless steel. Use 1/4”-20 (m6) bolt or screws for mounting this non-corrosive 2-Pole assembly. Maximum temperature 350°F (177°C). USA M.A.D.E.™

F: Two ceramic magnets placed in a 400 Stainless Steel channel covered with 300 Stainless Steel. Center mount using two 1/4” -20 (m6) bolt or screws for mounting this non-corrosive, 2-pole assembly. Maximum temperature 300°F (148°C).

G: Rare Earth magnet material is sandwiched between steel pole pieces and welded to a stainless steel back plate. This extremely powerful assembly is painted red and fits narrow openings. Use 1/4”-20 (m6) bolt or screws for mounting this 2-Pole assembly. Maximum temperature is 180°F (82°C). USA M.A.D.E.™

H: Ceramic magnet material is sandwiched between steel pole pieces. All-welded construction with a stainless steel cover. No epoxy, painted black. Can be used for holding and transferring of parts, aligning pieces during welding operations and as the holding elements on paint racks. Use 1/4”-20 (m6) bolt or screws for mounting this 2-Pole assembly. Maximum temperature is 480°F (248°C). USA M.A.D.E.™

I: Nickel Plated Rare Earth magnet material is glued to a bright plated steel channel. This extremely powerful assembly is ideal for low profile applications that require strong pull pounds. Use 10-32 (m5) bolt or screws for mounting this 2-Pole assembly. Maximum temperature is 180°F (82°C).

J: Ceramic magnet material placed in a 400 Stainless Steel channel and covered. Exception: MQ1129 is epoxy covered. This full-length magnetic holding force gives generous room for various fastener heads. Use 10-32 (m5) bolt or screws for mounting this non-corrosive 2-Pole assembly. Maximum temperature 300°F (148°C). Prefix LC = USA M.A.D.E™.

MAG-MATE® MAGNETS FOR HOLDING, TESTING & CERAMIC

MAGNETIC PRINT HOLDERS

Features
- Holds papers, prints, charts and more to steel desks, partitions, machinery, etc.
- Holds through many layers of prints

Round Print Holders					
Hold - lbs (kg)	Diameter (in)	Height (in)	OAH (in)	Weight (lbs)	Model No.
7.0 (3.18)	1.24	0.19	0.69	0.08	PHMX1000*
11.0 (4.99)	1.41	0.28	1.03	0.10	PHMX1500*
19.0 (8.62)	2.03	0.31	1.06	0.18	PHMX2000*
41.0 (18.60)	2.63	0.38	1.13	0.38	PHMX2500*
47.5 (21.54)	3.18	0.44	1.19	0.61	PHMX3000*

*Available in multi packs, ask your sales contact

Rectangular Print Holders					
Hold - lbs (kg)	Height (in)	Width (in)	Length (in)	Weight (lbs)	Model No.
11.5 (5.22)	1.31	1.13	2.38	0.29	PH2100
19.0 (8.62)	1.29	1.63	2.00	0.34	PH2101
22.5 (10.21)	1.31	2.50	3.00	0.50	PH2102

NAIL & SCREW HOLDER

Never hold nails in your mouth again. Handy magnetic wristband nail and screw holder provides a safe and convenient place to keep fasteners and small tools.

Features
- 10” Band Circumference
- Prevents dropping of tools or fasteners

Type	Cup Dia. (in)	Cup Height (in)	OAH (in)	Weight. (lbs)	Model No.
Wristband	2-1/32	5/16	0.390	0.24	MX2000W

PARTS RETRIEVERS

Remove Steel Parts from bins, boxes, kegs, tables or floors.

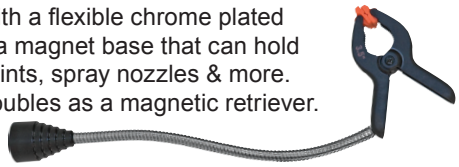
Features
- Easy release of collected parts or scrap
- Powerful lightweight magnet
- Durable aluminum housing PR7800 stainless steel housing
- Comfortable non-slip handle

Handle	Lift - lbs (kg)	Ht. (in)	Wd. (in)	Ln. (in)	Weight (lbs)	Model No.
Short	5.0 (2.27)	7-1/2	2-3/8	4-1/2	1.6	PR7100
Short	7.0 (3.18)	7-1/2	2-3/8	4-1/2	1.7	PR7200
Short	11.0 (4.99)	7-1/2	2-3/8	4-1/2	1.8	PR7400
Short	31.0 (14.06)	5-1/2	4-1/2	8-3/4	5.1	PR7800
Long	5.0 (2.27)	33-1/2	2-3/8	4-1/2	2.4	PR7100-30
Long	7.0 (3.18)	33-1/2	2-3/8	4-1/2	2.5	PR7200-30
Long	11.0 (4.99)	33-1/2	2-3/8	4-1/2	2.7	PR7400-30

SPARE HAND

USA M.A.D.E.

Spring clamp with a flexible chrome plated steel shaft and a magnet base that can hold lights, books, prints, spray nozzles & more. Magnet base doubles as a magnetic retriever.



Max Opening (in)	Lift - lbs (kg)	Mag Head Diameter (in)	Length (in)	Weight (in)	Model No.
1-1/4	20.0 (9.072)	1-1/8	13	0.45	990FLXCLP

MAGNETIC POLE TESTER

Use this handy Magnetic Pole Tester, with pocket, clip to test for the presence of magnetic fields. Perfect for Coil testing,Post-magnetization polarity checks, Electric motor assembly, installation of magnetic clamping blocks, error analysis, quality control & more. Sensitivity: ±15 mT on/off hysteresis. Operating temperature range: 0°C to +50°C Replacement Battery: 4 x 1.5V button cell, LR44.

Display	Length (mm)	Width (mm)	Height (mm)	Weight (lbs)	Model No.
Two-LED display (green=S, red=N)	143	22	19	0.07	XX6029

CERAMIC MAGNET MATERIAL

Ceramic magnets are a non-metallic, non-conductive, hard, brittle material compound of iron oxide, Strontium Ferrite and small quantities of other metal oxides that can only be cut with a diamond whee

Ceramic Features
- Low cost, high energy material
- Performs best at temperatures below 480°F (249°C)
- Difficult to grind or drill, cannot be machined utilizing EDM
- Tolerance ±2% on O.D., Length & Width. ±.005” on Thickness

Ceramic Disc Material					
Hold - lbs (kg)	Dia. (in)	Ln. (in)	Wt. (lbs)	Grade	Model No.
4.24 (1.92)	0.875	1.000	0.11	5	7/8DIAX1C5

Ceramic Ring Material						
Hold - lbs (kg)	O.D. (in)	I.D. (in)	Ln. (in)	Wt. (lbs)	Grade	Model No.
0.36 (0.16)	0.750	0.271	0.250	0.022	8	F1409
0.75 (0.34)	1.230	0.885	0.431	0.044	8	F1407
3.5 (1.58)	1.723	0.705	0.250	0.082	8	F1405
9.5 (4.31)	2.800	1.203	0.590	0.466	8	710006
5.5 (2.49)	2.825	1.250	0.330	0.600	8	431005
20.5 (9.30)	5.250	2.312	0.750	2.408	8	455005

Ceramic Rectangular Material						
Hold - lbs (kg)	Th. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Grade	Model No.
6.0 (2.72)	0.375	0.875	1.875	0.11	8	5C458
5.0 (2.26)	0.250	1	2	0.10	8	250x1x2C8
7.0 (3.17)	0.500	1	2	0.15	8	500x1x2C8
9.0 (4.08)	0.750	1	2	0.25	8	750X1X2C8
11.0 (4.99)	1.000	1	2	0.35	8	1X1X2C8
15.0 (6.80)	1.000	2	2	0.70	8	1X2X2C8
6.5 (2.95)	0.187	4	4	0.75	8	187X4X4C5
8.5 (3.85)	0.250	4	6	1.00	8	250X4X6C5
8.0 (3.62)	0.312	4	4	0.83	8	312X4X4C5
10.5 (4.76)	0.375	4	4	1.00	8	375X4X4C5
14.0 (6.35)	0.500	4	6	2.00	8	500X4X6C8
18.5 (8.39)	0.750	4	6	3.00	8	750X4X6C5
23.5 (10.66)	1.000	4	6	4.00	8	1X4X6C8

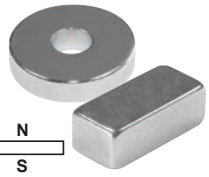
RARE EARTH MAGNET MATERIAL

Rare Earth Neodymium-Iron-Boron (NdFeB) magnets are commonly referred to as Neo. This magnet material provides the **highest magnetic strength** of any magnet material, very high resistance to demagnetization and is ideal for applications requiring maximum strength in a limited area. Neo is usually coated or plated to prevent oxidization, therefore, avoid grinding.

Features

- Operates best at temperatures below 180°F (82°C)
- Tolerance ±0.005" on all dimensions

NOTE: *Avoid grinding, as flash fires may occur from rare earth material dust particles. Crystalline structured material is easily chipped, cracked or broken.*



Rare Earth Ring Material				CS	35 MgO		42 MgO	
O.D. (in)	I.D. (in)	Length (in)	Weight (lbs)		Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.250	0.060	0.060	0.0002		0.2 (0.09)	NE250060060NP35	-	-
0.365	0.200	0.250	0.001		4.2 (1.91)	NE365200250NP35	-	-
0.375	0.136	0.100	0.001		2.0 (0.90)	NE375136100NP35	-	-
0.750	0.125	0.125	0.600		-	-	9.63 (4.37)	NE751212NP42
0.750	0.186	0.125	0.600	#8	-	-	8.60 (3.90)	NE7512CSNP42
1.000	0.186	0.125	0.800	#8	-	-	12.6 (5.72)	NE10012CSNP42
0.875	0.275	0.200	0.050		19.0 (8.62)	NE875275200NP35	-	-
1.000	0.1975	0.125	0.070		-	-	12.39 (5.62)	NE101912NP42
1.500	0.125	0.125	0.080		-	-	20.28 (9.20)	NE151212NP42

Rare Earth Rectangular Material				CS	35 MgO		42 MgO	
Thickness (in)	Width (in)	Length (in)	Weight (lbs)		Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.125	0.500	1.000	0.018	#4	-	-	12.0 (5.44)	NE010510CSNP42
0.125	0.500	1.000	0.018		-	-	12.8 (5.81)	NE010510NP42
0.187	1.000	1.500	0.100		-	-	34.0(15.42)	NEO 3/16 RECTNP
0.1875	1.000	1.500	0.100		-	-	28.0 (12.70)	NE181510NP42
0.250	0.500	2.000	0.070		21.0 (9.53)	NE2550200NP35	-	-
0.250	1.000	2.000	0.140		30.0 (13.61)	NE25100200NP35	-	-
0.340	0.250	0.750	0.018		6.0 (2.72)	NE342575NP35	-	-

Rare Earth Square Material				CS	35 MgO		42 MgO	
Thickness (in)	Width (in)	Length (in)	Weight (lbs)		Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.100	0.250	0.250	0.001		4.25 (1.93)	NE012525NP35	-	-
0.125	0.500	0.500	0.009		-	-	9.0 (4.08)	NE010505NP42
0.125	0.750	0.750	0.020	#8	-	-	11.4 (5.17)	NE017575CSNP42
0.500	0.500	0.500	0.030		18.0 (8.16)	NE505050NP35	-	-
0.125	1.000	1.000	0.034		-	-	18.0 (8.16)	NE011010NP42
0.125	1.500	1.500	0.076		-	-	28.0 (12.70)	NE011515NP42
0.250	0.750	0.750	0.040		16.0 (7.26)	NE257575NP35	-	-
0.500	1.000	1.000	0.030		45.0 (20.41)	NE50100100NP35	-	-

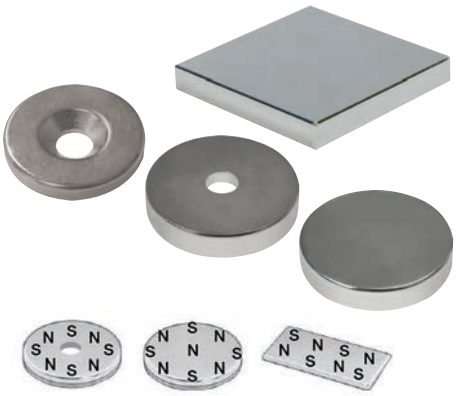
Rare Earth Cylindrical Material			35 MgO		42 MgO		52 MgO	
Diameter (in)	Length (in)	Weight (lbs)	Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.120	0.060	0.0002	0.2 (0.09)	NE1206NP35	-	-	-	-
0.120	0.250	0.0002	0.3 (0.13)	NE1225NP35	-	-	-	-
0.120	0.500	0.0004	0.6 (0.27)	NE1250NP35	-	-	-	-
0.187	0.060	0.0004	0.6 (0.27)	NE1806NP35	-	-	-	-
0.220	0.100	0.001	1.0 (0.45)	NE2210NP35	-	-	-	-
0.220	0.250	0.003	1.5 (0.68)	NE2225NP35	-	-	-	-
0.220	0.500	0.007	1.8 (0.81)	NE2250NP35	-	-	-	-
0.250	0.100	0.001	1.0 (0.45)	NE2510NP35	-	-	-	-
0.250	0.125	0.002	1.2 (0.54)	NE2512NP35	2.3 (1.04)	NE2512NP42	-	-
0.250	0.187	0.002	1.5 (0.68)	NE2518NP35	-	-	-	-
0.250	0.200	0.003	1.7 (0.77)	NE2520NP35	3.07 (1.39)	NE2520NP42	-	-
0.250	0.250	0.003	1.8 (0.81)	NE2525NP35	3.35 (1.52)	NE2525NP42	-	-
0.250	0.500	0.007	2.1 (0.95)	NE2550NP35	3.87 (1.76)	NE2550NP42	-	-
0.310	0.060	0.006	1.3 (0.59)	NE3106NP35	-	-	-	-
0.320	0.250	0.006	3.1 (1.40)	NE3225NP35	-	-	-	-
0.375	0.060	0.002	1.6 (0.73)	NE3706NP35	-	-	-	-
0.375	0.100	0.003	2.0 (0.90)	NE3710NP35	-	-	-	-
0.375	0.125	0.004	2.6 (1.18)	NE3712NP35	-	-	-	-
0.375	0.187	0.006	4.5 (2.04)	NE3718NP35	-	-	-	-
0.375	0.200	0.006	4.5 (2.04)	NE3720NP35	-	-	-	-
0.375	0.250	0.007	4.6 (2.08)	NE3725NP35	6.86 (3.11)	NE3725NP42	-	-
0.375	0.375	0.011	5.7 (2.58)	NE3737NP35	7.96 (3.61)	NE3737NP42	-	-
0.375	0.500	0.015	6.7 (3.04)	NE3750NP35	8.5 (3.86)	NE3750NP42	10.5 (4.76)	NE3750NP52
0.500	0.060	0.003	3.0 (1.36)	NE5006NP35	-	-	3.8 (1.72)	NE5006NP52
0.500	0.125	0.007	4.0 (1.81)	NE5012NP35	6.08 (2.76)	NE5012NP42	7.90 (3.58)	NE5012NP52
0.500	0.187	0.010	5.7 (2.58)	NE5018NP35	7.50 (3.40)	NE5018NP42	-	-
0.500	0.200	0.010	6.0 (2.72)	NE5020NP35	9.49 (4.30)	NE5020NP42	11.7 (5.31)	NE5020NP52
0.500	0.250	0.013	6.5 (2.94)	NE5025NP35	10.88 (4.94)	NE5025NP42	13.4 (6.08)	NE5025NP52
0.500	0.375	0.020	8.9 (4.03)	NE5037NP35	-	-	-	-
0.500	0.500	0.026	11.2 (5.08)	NE5050NP35	14.66 (6.65)	NE5050NP42	18.0 (8.16)	NE5050NP52
0.750	0.060	0.020	3.2 (1.45)	NE7506NP35	4.95 (2.25)	NE7506NP42	-	-
0.750	0.125	0.060	-	-	9.76 (4.43)	NE7512NP42	-	-
0.750	0.187	0.060	12.5 (5.67)	NE7518NP35	-	-	-	-
0.750	0.250	0.026	15.3 (6.94)	NE7525NP35	-	-	-	-
0.750	0.375	0.030	20.0 (9.07)	NE7537NP35	24.0 (10.89)	NE7537NP42	29.7 (13.47)	NE7537NP52
0.750	0.500	0.045	22.0 (9.98)	NE7550NP35	-	-	-	-
1.000	0.062	0.013	-	-	6.80 (3.08)	NE10006NP42	8.40 (3.81)	NE10006NP52
1.000	0.125	0.028	-	-	12.60 (5.72)	NE10012NP42	15.6 (7.08)	NE10012NP52
1.000	0.187	0.040	-	-	22.45 (10.18)	NE10018NP42	27.8 (12.61)	NE10018NP52
1.500	0.125	0.070	-	-	20.37 (9.24)	NE15012NP42	25.0 (11.34)	NE15012NP52

SMART MAG® MULTI-POLE ENCODED MAGNETS

MAX-ATTACH® - SMARTMAG® ENCODED MAGNET MATERIAL

Max-Attach® SmartMag® magnets are Rare Earth Neodymium-Iron-Boron multi-pole encoded magnets that contain small magnetic poles encoded into a single face of raw magnet material to produce superior attachment force that cannot be achieved with conventionally magnetized magnet material. Maximum temperature is 180°F (82°C). They cannot be machined.

Some models available with 3M VHB (Very High Bond) adhesive backing for placement on non-ferrous surfaces.



SmartMag® Max-Attach® Disc

O.D. (in)	Height (in)	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
0.500	0.062	0.004	4.9 (2.22)	CMP5006P2N52	CMP5006P2ADH
0.500	0.125	0.007	7.7 (1.04)	CMP5012P1N35	-
0.500	0.187	0.037	9.3 (4.22)	CMP5018P2N35	-
0.500	0.125	0.007	8.8 (3.99)	CMP5012P1N42	-
0.500	0.187	0.037	10.5 (4.76)	CMP5018P2N42	-
0.750	0.062	0.007	15.3 (6.94)	CMP7506P1N42	CMP7506P1ADH
0.750	0.125	0.015	18.0 (8.16)	CMP7512P1N42	CMP7512P2ADH
1.000	0.062	0.013	16.5 (7.48)	CMP10006P1N42	CMP10006P1ADH
1.000	0.125	0.027	37.3 (16.92)	CMP10012P1N42	CMP10012P1ADH
1.000	0.187	0.040	38.4 (17.42)	CMP10018P2N42	CMP10018P2ADH
1.500	0.125	0.060	77.0 (34.93	CMP15012P1N42	CMP15012P1ADH

Max-Attach® Ring

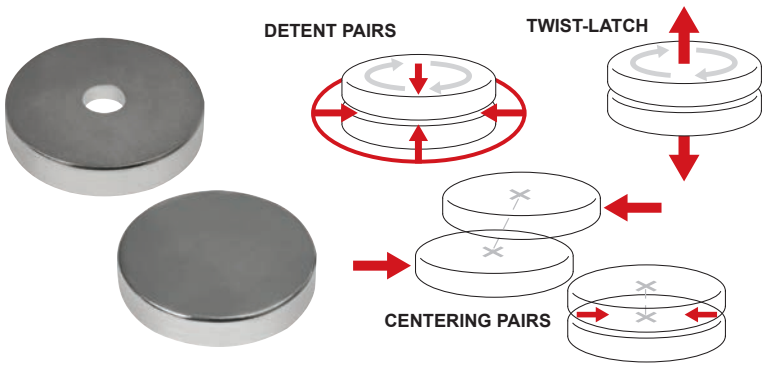
O.D. (in)	I.D. (in)	Height (in)	Weight (lbs)	CS	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
0.750	0.125	0.125	0.014		16.3 (7.39)	CMP751212P2N42	-
0.750	0.186	0.125	0.011	#8	11.0 (4.99)	CMP7512CSP2N42	-
0.875	0.186	0.125	0.020	#8	14.0 (6.35)	CMP8712CSP2N42	-
1.000	0.186	0.125	0.800	#8	30.0 (13.60)	CMP10012CSP2N42	-
1.000	0.190	0.125	0.026		33.2 (15.06)	CMP101912P2N42	CMP101912P2ADH
1.250	0.186	0.125	0.040	#8	42.0 (19.05)	CMP12512CSP2N42	-
1.500	0.125	0.125	0.059		67.3 (30.53)	CMP151212P2N42	CMP151212P2ADH
2.000	0.875	0.187	0.128		119.0 (53.98)	CMP208718P2N42	-

Max-Attach® Rectangle

Length (in)	Width (in)	Height (in)	Weight (lbs)	CS	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
0.500	0.500	0.125	0.008		13.1 (5.94)	CMP010505P1N42	CMP010505P1ADH
1.000	0.500	0.125	0.017		17.1 (7.76)	CMP010510P1N42	CMP010510P1ADH
1.000	1.000	0.060	0.018		26.0 (11.79)	-	CMP061010P2ADH
1.000	1.000	0.125	0.038	#8	26.0 (11.79)	CMP011010CP2N42	-
1.000	1.000	0.125	0.034		39.8 (18.05)	CMP011010P1N42	CMP011010P1ADH
1.500	1.000	0.125	0.049	#8	45.0 (20.41)	CMP011510CP2N42	-
1.500	1.000	0.187	0.076		62.1 (28.17)	CMP181510P2N35	-
1.500	1.000	0.187	0.076		64.8 (29.39)	CMP181510P2N42	CMP181510P2ADH
1.500	1.500	0.125	0.076		86.4 (39.19)	CMP011515P1N42	CMP011515P1ADH

SMARTMAG® ALIGNMENT ENCODED MAGNET MATERIAL

SmartMag® alignment magnets are multi-pole encoded magnets that contain small magnetic poles encoded into a single face of raw magnet material to create alignment patterns that can produce complex precision alignment that has not been achieved with conventionally magnetized magnet material. Maximum temperature is 180°F (82°C). They cannot be machined. Some models available with 3M VHB (Very High Bond) adhesive backing for placement on non-ferrous surfaces.



Twist-Latch:
Twist-Latch SmartMags® will repel until they rotate through the zero-force transition point where they will attract and attach. They have an alignment pattern that will repel or release the magnets when one magnet is rotated into a specific release orientation.

Detent:
Detent SmartMags® will align at specific angles when rotated and hold its position until enough force is applied to rotate one magnet into the next position.

Centering:
Centering SmartMags® are a distinct type of Alignment SmartMag® that are produced in matching pairs and will align along a set axis.

Twist-Latch – SmartMag® Disc or Ring Pairs

O.D. (in)	I.D. (in)	Height (in)	Release Angle	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
1.000	-	0.125	120°	0.027	15.0 (6.80)	CMP2M1012L12	CMP1012L12ADH
1.000	-	0.125	180°	0.027	19.0 (8.62)	CMP2M1012L18	CMP1012L18ADH
1.000	0.190	0.125	120°	0.026	12.0 (5.44)	CMP2M10CS12L12	-
1.000	0.190	0.125	180°	0.026	14.0 (6.35)	CMP2M10CS12L18	-

Detent – SmartMag® Disc or Ring Pairs

O.D. (in)	I.D. (in)	Height (in)	Detent Angle	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
1.000	-	0.125	90°	0.027	16.0 (7.26)	CMP2M1012D09	CMP1012D09ADH
1.000	-	0.125	120°	0.027	20.0 (9.07)	CMP2M1012D12	CMP1012D12ADH
1.000	0.190	0.125	90°	0.026	12.0 (5.44)	CMP2M1012CSD09	-
1.000	0.190	0.125	120°	0.026	16.0 (7.26)	CMP2M1012CSD12	

Centering – SmartMag® Disc or Ring Pairs

O.D. (in)	I.D. (in)	Height (in)	Release Angle	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
1.000	-	0.125	180°	0.027	32.0 (14.52)	CMP2M1012C3	CMP2M1012C3ADH
1.000	0.190	0.125	180°	0.026	22.0 (9.98)	CMP2M10CS12C3	-

MAGNETS IN LIQUID & DEMAGNETIZERS

MAG-MAID COOLANT CLEAN OUT TOOL

This powerful Rare Earth clean-up tool safely removes metal chips and debris from machinery and work areas. The large comfortable handle is attached to Rare Earth magnets inside the seam-welded, stainless steel tube. To clean this tool, pull the handle away from the stainless steel tube. Collected scrap metal will follow the magnet up the tube until it hits the stripper washer. Once the magnet is past the stripper washer, the magnetic influence will dissipate and the metal falls off. No need to pull or wipe off collected metal.

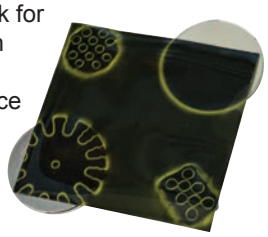
Features
- Maximum temperature 180°F (82°C)
- Seam-welded, .053" thick tube prevents denting
- Large grip handle

Diameter (in)	Shaft Length (in)	OAL (in)	Weight (lbs)	Model No.
1	15	19.25	1.25	MM1500EZ
1	36	40.25	2.75	MM3600EZ

MAGNETIC VIEWING FILM

This film allows you to identify the magnetic field patterns of magnetic materials and assemblies. The viewing film can be used to check for damage to the magnet material within most types of magnet assemblies. Simply hold the film against the surface of any magnet and the pattern of the magnetic field is revealed. The 3" square sheets are reusable.

Model No. XX0044



SALVAGE MAGNETS

Features
- Retrieves tools, parts, key rings, fishing tackle & more
- Powerful ceramic magnets for wet or dry applications
- HDR3045 has a durable stainless steel case and can retrieve broken drill bits from oil & water wells

Lift - lbs (kg)	Size (in)	Weight (lbs)	Model No.
35.0 (15.88)	3-1/2 Dia. x 2-1/2 L	1.07	DT3500
92.5 (41.96)	5-1/4 x 1-7/8 x 2-3/4	1.80	DT0600
300.0 (136.08)	3 Dia. x 5-3/4 L	5.00	HDR3045

CLEAN-OUT RETRIEVERS

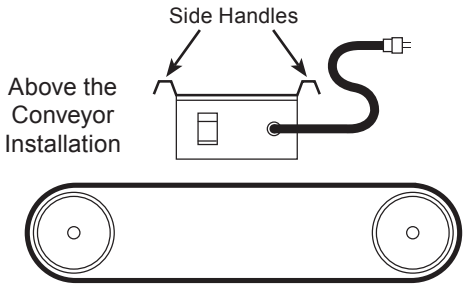
Features
- Retrieve ferrous metal items from tanks, acid baths, oil reservoirs, heat bake ovens, etc.
- Alnico Magnet is attached to a 48 inch wood handle
- Maximum temperature 300°F (148°C)

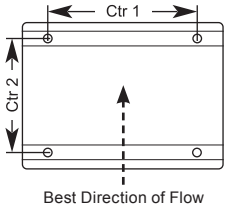
Lift - lbs (kg)	Diameter (in)	Length (in)	Weight (lbs)	Model No.
12.0 (5.45)	1-3/8	48	1.60	COR12
35.0 (15.88)	2-1/2	48	2.50	COR35

CONTINUOUS DUTY SURFACE TYPE DEMAGNETIZERS

Surface Type Demagnetizers are designed for stationary or portable use, providing continuous duty operation as work pieces pass the demagnetizer's face plate. This design allows for installation under, over or alongside conveyors for demagnetizing applications.

Features
- Durable, one-piece face plate
- On/Off switch
- Portable and/or stationary design
- Integrated side handles for hand held operation
- AC On Indicator (DSC423 Only)





Note: 10 ft. cord with grounded plug on 120 VAC models only. 240 VAC models have a 6 ft. three wire cord without plug.

Height (in)	Width (in)	Length (in)	Demagnetization Area (in)	Ctr. 1 (in)	Ctr. 2 (in)	Hole Diameter (in)	Weight (lbs)	Amps (120 VAC)	Amps (240 VAC)	Amps (480 VAC)	Model No.
3-13/16	4-3/4	7-1/4	3 x 4.5	5-5/16	5-3/8	1/4	15.0	2.1	1.1	0.52	DSC423
4-15/16	6-1/4	11-1/4	4 x 6	7-13/16	6-7/8	5/16	33.0	9.0	5.0	2.50	DSC424

MAG-MATE® ELECTROMAGNETS & COUNTER WHEELS

ELECTROMAGNETS AND POWER SUPPLY

Electromagnets offer On/Off capability through the application of controlled DC electrical current, controlled holding power and on-command release of ferrous steel parts. Most electromagnets require specially designed power supplies to achieve optimum magnetic performance. IMI offers power supplies for all of your electromagnet applications. Continuous duty 158°F (70°C) to 192°F (89°C) temperature rise. All electromagnets are **100% Duty Cycle.**

Parallel Pole Electromagnets: Ideal for Pick and Place or Lifting Applications where parts have flat surfaces and can be custom machined to specifically fit the application. Side mounted terminal blocks allow one set of lead wires from magnet to power supply (no splicing required, minimum 18 gauge leads). These electromagnets offer broad application potential due to their ability to deliver improved reach out through air gaps (i.e. painted, plated & coated surfaces).

Rectangular & Round Island Pole Electromagnets: Ideal for Pick and Place or Lifting applications where parts have uneven surfaces or odd shapes and provide concentrated holding power & high responsiveness in manual or automatic applications.

Power Supply: Designed for manual operation. Uses 120VAC input, 16 to 26VDC variable dual output, 10-foot grounded power cord and fuse protection. Temp. range -4°F to 160°F (-20°C - 71°C). Power supplies with automatic reverse pulse upon release are available.

Rectangular Island Pole Electromagnets

WLL - lbs (kg)	Height (in)	Width (in)	Length (in)	Tap Size	Number of Holes	Spacing (in)	Watts	Weight (lbs)	24 VDC Model No.	120 VAC Model No.
50 (22.68)	1-1/4	1-1/2	1-1/2	10-32	1	Centered	8.0	0.31	ES2-111	-
80 (36.29)	1-1/4	1-1/2	2-1/2	10-32	2	1	10.0	1.00	ES2-121	ESA-121
150 (68.04)	1-1/2	2-1/2	2-1/2	1/4-20	1	Centered	14.0	2.00	ES2-221	ESA-221
300 (136.08)	1-7/8	2-1/2	4-1/2	1/4-20	2	2	29.0	5.00	ES2-241	ESA-241
850 (385.55)	2-1/2	4	8	3/8-16	2	4	58.0	18.00	ES2-482	-

Rectangular Electromagnet with 120 VAC cord

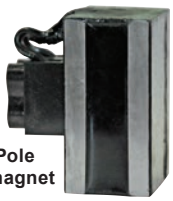
Round Island Pole Electromagnets

WLL - lbs (kg)	Diameter (in)	Length (in)	Tap Size	Watts	Weight (lbs)	24 VDC Model No.	120 VAC Model No.
5 (2.27)	3/4	1-1/4	10-32	1.4	0.2	ER2-071	-
7 (3.18)	1	3/4	10-32	1.5	0.2	ER2-101	-
12 (5.44)	1	1-1/4	10-32	3.6	0.3	ER2-102	-
25 (11.34)	1-1/4	1-1/4	1/4-20	4.4	0.4	ER2-103	-
40 (18.14)	1-1/2	1-1/2	1/4-20	4.6	0.7	ER2-104	-
90 (40.82)	2	1-5/8	1/4-20	5.6	1.2	ER2-201	ERA-201
100 (45.36)	2	2-1/2	1/4-20	13.0	2.0	ER2-202	ERA-202
200 (90.72)	3	3	5/16-18	25.0	5.0	ER2-303	ERA-303
350 (158.76)	4	3	3/8-16	36.0	9.0	ER2-403	-

Round Electromagnet

Parallel Pole Electromagnets

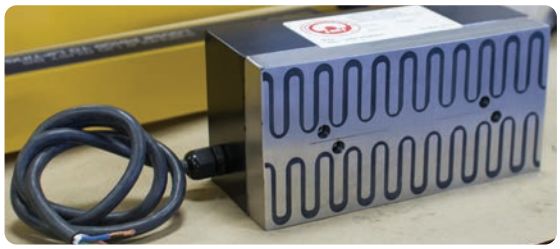
WLL - lbs (kg)	Height (in)	Width (in)	Length (in)	Tap Size	Holes	Spacing (in)	Watts	Weight (lbs)	24 VDC Model No.
55 (24.95)	1-3/8	1	2	1/4-20	2	1	6	0.22	EP2-121
80 (36.29)	1-3/8	1	3	1/4-20	2	2	9	1.00	EP2-131
100 (45.36)	1-3/8	1	4	1/4-20	2	3	11	1.00	EP2-141
230 (104.33)	2-3/4	2	4	5/16-18	2	3	21	4.00	EP2-242
320 (140.62)	2-3/4	2	6	5/16-18	2	4.5	30	5.00	EP2-262
430 (195.04)	2-3/4	2	8	5/16-18	2	6.50	36	8.00	EP2-282



Parallel Pole Electromagnet

Power Supply

Height (in)	Width (in)	Length (in)	Watts	Weight (lbs)	Amps	Model No.
1-3/8	3-5/16	6-1/4	100	1.00	4.5	PSA1210SB



Power Supply

Custom Electromagnets are available.

MAGNETIC COUNTER WHEELS

Magnetic counter wheels can be used with a mechanical counter to measure the length of coiled steel and aluminum. Allowing the operator to monitor shift or roll production, detect shortages or overages and record the amount of defective stock. Unlike rubber faced wheels, magnetic wheels do not tend to slip on oily stock. When used in aluminum applications, magnetic counters can run on the steel feed or pinch rolls.

Features

- Ideal Wheel dia. is 3.8197" ±0.0010" to measure one linear foot per revolution.
- The face width is 0.813" with a 0.5" long hub with a 1/4-20 set screw.

Description	Model No.
Counter Wheel - 3/8" Bore	5C926-038
Counter Wheel - 1/2" Bore	5C926-050

SPARK PLUG BOOT PLIERS

Insulated spark plug boot pliers grip boot to prevent wire damage, electrical shock and burns.

Features
- Pliers handle and jaws are coated with a 90 durometer heavy-duty plastic for a sure grip
- PLS140 is ideal for use against the fire wall and on minivans
- PLS100S contains one of each pair of pliers. Be ready for any difficult to reach boot.

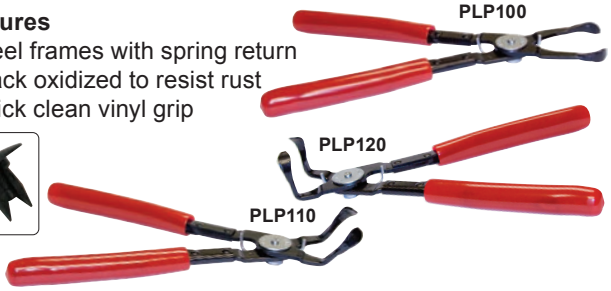
PLS100 PLS110 PLS120 PLS130 PLS140 PLS200N

Description	Jaw Length (in)	Jaw Width (in)	Length (in)	Weight (lbs)	Model No.
5 Piece Set - Spark Plug Boot Pliers (1 of ea. model)	—	—	—	2.85	PLS100S
Spark Plug Boot Pliers - 45° Angle	3	1-1/8	9-3/4	0.50	PLS100
Spark Plug Boot Pliers - Straight	2-3/4	1-1/8	9-1/2	0.50	PLS110
Spark Plug Boot Pliers - Straight	4-1/4	1-7/8	11	0.60	PLS120
Spark Plug Boot Pliers - 45° Angle	4-1/4	1-7/8	11	0.60	PLS130
Spark Plug Boot Pliers - 90° Angle	4	2	10-1/4	0.65	PLS140
Nylon Spark Plug Boot Pliers - 20° Angle	2-1/4	5/8	7	0.10	PLS200N

PUSH PIN PLIERS

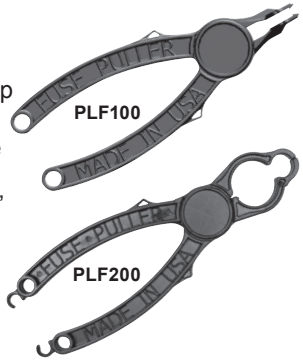
Quickly remove plastic push pin anchors with center locking pin without damage to pins, anchors, fasteners or retainers.

Features
- Steel frames with spring return
- Black oxidized to resist rust
- Quick clean vinyl grip



Description	Overall Length (in)	Weight (lbs)	Model No.
3 Pc. set (1 of ea.)	—	1.35	PLP100S
Straight	9-3/4	0.45	PLP100
45° Angle	9-1/2	0.45	PLP110
90° Angle	9	0.45	PLP120

Remove and install hard to reach or difficult to pull fuses. Fully insulated, 100% non-conductive Nylon pliers with an ergonomic grip and finger stops to protect fingers. PLF100 is used on Flat blade type fuses in Automotive, ATO and mini fuses. PLF200 is for 1/2" to 1" glass fuses in vintage automotive, appliance and industrial fuse application. Hook on end of grip pulls midget fuses.



Description	Length (in)	Weight (lbs)	Model No.
Flat Blade Fuse Puller/Installer	6	0.05	PLF100
Glass Fuse Puller/Installer	7-1/8	0.10	PLF200

HOSE CLAMP PLIERS

Swivel jaws are slotted for positive holding/removal of plastic and or metal constant tension hose clamps. Jaws rotate 360° to grip at any angle and can be locked in three holding positions, freeing up hands.

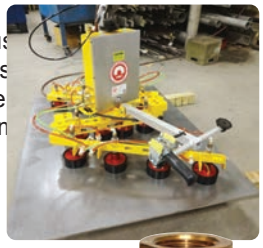
Features
- Quick clean vinyl grip
- Finger tip locking pawl
- PLC200 is for use on Ford, GM, Chrysler, VW and other import vehicles for constant tension/Mobea (flat band) clamps
- PLC210 is for use on vintage automotive and agricultural vehicles, appliances, irrigation/spraying systems, or Corbin (single wire) clamps
- PLC220 has universal tips, right or left facing clamp for constant tension Mobea clamps

Description	Length (in)	Weight (lbs)	Model No.
Automotive Hose Clamp - Straight	9	0.45	PLC200
Automotive/Agriculture/Appliance Hose Clamp - Straight	9	0.45	PLC210
Extra Large Automotive Hose Clamp - 45° Angle	10-1/2	0.55	PLC220
Extra Large Automotive Hose Clamp - Straight	10-1/2	0.55	PLC230

TRANSPORTER® LP LOW PROFILE (TPLP)

USA M.A.D.E.

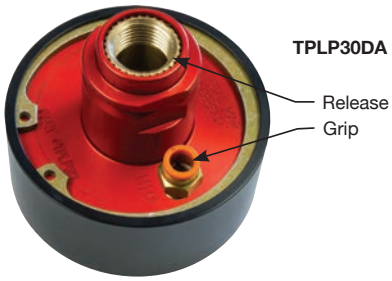
Low Profile (TPLP) Transporter® Magnets
The Transporter® LP is designed to directly replace vacuum cups. Rare Earth magnets positively hold the parts during transfer, greatly re to oily coatings. An optional "low-skid" boot is also available to in air pressure is applied in order to release parts. Perfect for auton systems and machine loading/unloading



Features
- Uses up to 95% less air than vacuum cups
- Outlasts vacuum cups in most applications
- Grasps odd shaped or perforated parts
- Increases production and reduces shop air costs
- Designed for long, maintenance-free operation
- Operates effectively in any orientation
- Class "A" blank protection with covered magnets
- Destacking option prevents double-blanking
- Powerful Rare Earth magnet positively holds parts - no dropping or shifting in the event of air loss
- Threads onto a variety of typical 3/8 NPT vacuum cup tooling
- Lightweight, low-profile design for minimal die clearance
- Easy installation on existing tooling booms or robotic face plates
- Instantaneous pick-up and release

Transporter LP Options

Double Acting (Option DA): Features O-Ring seals & extra air inlet that allow a short blast of air to engage or disengage the grip function. The double acting option is only available on the TPLP30 & TPLP50 magnets. Operates at a low pressure of 20 psi (30 psi maximum), allows use of 1/4" Lines & can run up to 16 magnets from 1 valve.



De-stacking (Option DS): The de-stacking option is required for applications de-stacking metal that is thinner than .0478" (18 ga) with the TPLP30 model. The de-stack option features a special magnetic circuit that is designed to de-stack sheets as thin as .030" (22 ga). The optional low-skid boot is required for certain applications.

3/8 BSPP Fitting (Option BS): 3/8 British Standard Pipe Parallel Thread, available on TPLP30 models only.

Transporter LP Accessories

We offer a large selection of TPLP accessory to handle your installation, operation and maintenance requirements such as various mounting options, manifolds and magnet face covers.

The Bulk Head Spring Mount is ideal for installation on end user specified mounting plates. The Proximity switch mount is designed for the TPLP15 and TPLP30 and accepts a 12mm proximity switch.

The **Swivel Mount** or **Spring Compensator** can be added to new or existing Transporter TPLP30's for best part compliance. These lightweight, anodized, aluminum constructed mounts fit most TPLP30 magnets to accommodate material variances and uneven surfaces. Low center of rotation allows magnet to stay on target. Our newly styled upper housing was redesigned with a groove to accommodate these mounts. If your TPLP30 does not contain a mounting groove, a replacement upper housing can be purchased.

Swivel and Spring Compensator mounting fixtures available for new and custom tooling installation.

Low Skid Boots and Pads protect against marring of class "A" blanks while reducing the likelihood of part shifting and extending the life of the magnet by protecting the face from wear and. The boots cover the edge of the cup for complete blank protection while the pads cover the face of the cup for increased wear protection to extend the life of the magnet.

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-01C.

TRANSPORTER® - CYLINDER ACTUATED (TPCA)

Transporter® Magnets are ideal for use where vacuum cups and grippers are typically used for lifting and moving steel sheets, blanks, stamped parts and complete assemblies.

Applications & Benefits
- Automated press to press transfer systems
- Robotic “Pick & Place”
- Manual and automated machine loading/unloading
- Outlasts vacuum cups in most applications
- Grasps odd shaped or perforated parts
- Increases production and reduces shop air costs
- Designed for long, maintenance-free operation
- Operates effectively in any orientation
- Will not drop parts if system air-loss occurs
- Destacking (requires proper magnet selection)

Cylinder Actuated Transporter® Magnets (TPCA)
The patented Transporter® utilizes a powerful, Rare Earth, Permanent Magnet to pick and place metal parts in automated transfer and manually operated material handling applications. Offering more options for pick-up points on stamped, forged and formed parts or complete parts assemblies. Offers increased material handling safety and a significant reduction over vacuum cups in shop air costs.

Ideal for steel lifting applications in the Automotive, Appliance and Office Furniture industries and available in many standard and custom configurations to best suit the needs of your application.

Features
- Positively holds parts - no dropping
- Instantaneous pickup and release
- Permanent magnet requires no electricity

Options
- Solenoid control valves
- Custom designed magnet housings
- Alternate magnetic circuits for specific lifting requirements
- Magnet mounted control valves
- Magnets designed into ergonomic lifting systems

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-01B.

TRANSPORTER® MAGVAC (TPMV)

The Transporter® MagVac combines magnet technology with vacuum cups to create a next generation lifting tool.

Benefits
- Powerful magnetic gripper combined with a vacuum cup for powerful holding
- Lift steel or perforated parts as well as aluminum and stainless steel
- Perfect for robotic systems, press transfer systems and all sheet metal applications
- Vacuum pads can be removed for single use as a standard lift magnet on ferrous parts
- No more replacing vacuum cups every week
- No dropping parts from loss of air (for ferrous parts), excess mill oil or weld slag
- Maximum temperature of 176°F (80°C)
- All suction cup pads are made from Thermoplastic Polyurethane/TPU

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-01E.

IXTUR® PNEUMATIC MAGNETS

IXTUR Pneumatic Magnets are ideal for use where vacuum cups and grippers are typically used for lifting and moving steel sheets, blanks, stamped parts and complete assemblies. Perfect for automated press to press transfer systems, robotic pick & place systems and machine loading/unloading.

Benefits:
- Outlasts vacuum cups in most applications
- Grasps odd shaped or perforated parts
- Increases production and reduces shop air costs
- Operates effectively in any orientation
- Will not drop parts if system air-loss occurs
- Maximum operating temperature 122°F (50°C)
- Double-Acting ON/OFF - Air pressure required only to change state from off to on and on to off.

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-01F.

AUTOMATION FANNERS FOR SHEET SEPARATION

SHEETSEEKER® - ERGONOMIC PERMANENT MAGNETIC FANNERS

The SheetSeeker® (U.S. Patent: 6,845,976) is a breakthrough in magnetic sheet fanner technology. The magnetic circuit is lifted and locked into place for introduction to a stack of sheet steel. Once the stack is in place, the sliding magnet is unlocked and automatically centers on the top of the stack, fanning the sheet stock. As each sheet is lifted away, the magnet indexes down automatically, fanning to the bottom of the stack.

Features
- Powerful, Rare Earth, automatic-indexing magnetic circuit
- Up to 60% lighter than standard sheet fanners with the same fanning strength
- Magnet automatically indexes down to ensure optimum fanning down to the last sheet
- Lightweight design and convenient top mounted carry handle allow for user-friendly transport
- Minimum height of 12” with custom designs and options available
- Fans from 30 gauge sheets to 3/16” plate
- Durable stainless steel construction
- Slide handle for positioning the fanning circuit
- Top locks for slide handle
- Break Away Bar
- Optional On/Off magnetic base for easy installation and removal

U.S. Patent No. 6,845,976

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-05A.

AIR CYLINDER FANNERS - PERMANENT MAGNETIC FANNERS

Air Cylinder Actuated Sheet Fanners have an air release system that pulls the magnet inside away from the face of the fanner for easy and safe removal of the fanner from the stack.

Features
- Reduce costs and increase safety for destacking steel sheet stock
- A powerful, Rare Earth magnetic field automatically separates sheets
- As the top sheet is removed, the next sheet instantly fans up
- Assists prying apart sticky, oily, pre-finished or polished sheets
- Eliminates die-damaging double blanking in automated operations
- On/Off of an electromagnet with the benefit of a permanent magnet
- Allows for mid stack change over

Permanent Magnetic Fanners handle steel sheets of almost any length, width or shape. The sheets near the top of the stack separate instantly from a 1/2” to 3/4” gap, depending on sheet thickness and size.

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-05B.

AIR SPRING FANNERS - PERMANENT MAGNETIC FANNERS

Air Spring Fanners have an air spring system that pushes the magnet inside toward the face of the fanner when air pressure is present. When the air pressure is turned off or disconnected the air spring will deflate and the magnet will move away from the face of the fanner creating air gap that in essence turns the magnet off. This eliminates the risk of having metal accidently attracted to the fanner during transportation or stack changeovers.

Features
- Powerful, Rare Earth, magnetic circuit
- On/Off capability helps prevent injury when introducing new materials to the fanner
- “Fail-Safe” mode automatically returns the magnet to the “Off” position with loss of air pressure
- Fans from 30 gauge sheets to 3/16” plate
- Durable stainless steel welded cover construction

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-05B.

FANNERS FOR SHEET SEPARATION

PERMANENT MAGNETIC SHEET FANNERS

Permanent Magnetic Fanners handle steel sheets of almost any length, width or shape. The sheets near the top of the stack separate instantly from a 1/2" to 3/4" gap, depending on sheet thickness and size.

Features
- Reduce costs and increase safety for destacking steel sheet stock
- A powerful magnetic field automatically separates sheets
- As the top sheet is removed, the next sheet instantly fans up
- Assists prying apart sticky, oily, pre-finished or polished sheets
- Eliminates die-damaging double blanking in automated operations
- Three powerful designs for optimum fanning performance
  - Thin Gauge Fanner (TNF), 20 to 30 Gauge
  - Medium Gauge Fanner (MGF), 12 to 22 Gauge
  - Thick Gauge Fanner (TKF), 7 to 12 Gauge
- Pre-tapped holes for mounting to your equipment
- Bolt on angle base plate and handle with mounting hardware included
- Durable welded construction

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-05A.

AIR KNIFE FANNERS - PERMANENT MAGNETIC FANNERS

Permanent Magnet Sheet Fanners with Air Knives allow for ferrous and non-ferrous sheets to be separated in destacking applications. While the magnet force will work with all ferrous metals, the air knives separate all non-ferrous metals by pushing air in between the sheets causing them to rise up from one another.

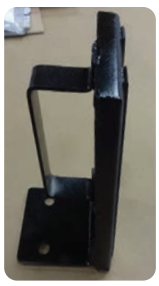
Features
- Reduce costs and increase safety for destacking ferrous and non-ferrous sheets
- A magnetic field automatically separates ferrous sheets
- Powerful air knives automatically separate non-ferrous sheets
- As the top sheet is removed, the next sheet instantly fans up
- Assists prying apart sticky, oily, pre-finished or polished sheets
- Eliminates die-damaging double blanking in automated operations
- Handle steel sheets of almost any length, width or shape
- Sheets near the top of the stack separate instantly.

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-05B.

MAGNETIC PINFANNERS™ - PERMANENT MAGNETIC FANNERS

Use pallet mount Permanent Magnetic PinFanners™ with Hex, Round or T-Slot Pallet Pins in Stacking/Destacking, Blanking Lines and Press Feeding applications. PinFanners™ can be used to separate curved edge or odd shaped blanks. PinFanners™ stay right on the pallet, from the blanking line to the press, without any extra set up! Adjustable magnet positions ensure direct contact with the blank for maximum fanning ability. Mounted directly to the pallet, PinFanners™ reduce maintenance down time on blanking lines.

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-05A.



SHEET LIFT SYSTEMS

MAGNETIC SHEET LIFT SYSTEMS

USA M.A.D.E.

The Magnetic Sheet Lifter de-stacks steel sheets from pallets, racks and more. The unique design of this permanent magnetic lifting system allows one person to safely and effectively move and load sheets onto cutting tables, shear beds and other fabrication equipment.

The Magnetic Sheet Lifter features a series of adjustable position permanent magnet lifting heads to lift a wide variety of sheet lengths and widths. Push button controls activate the air cylinders located on the magnetic heads. Once activated, the cylinders lift the magnets up into a housing and release the sheet in its desired location.

Applications
- Stacking and destacking sheet steel
- Loading shears, punch presses, press brakes and burn tables
- Moving sheets/plates from pallets or racks to work stations

Benefits
- Allows one person to safely move sheet steel
- Reliability of a permanent magnetic lift with the On/Off capabilities similar to an electromagnet
- Fail-safe design (No battery backup required)
- Adjustable magnet positions lift a wide variety of sheet lengths and widths.
- Operates without the heat build up of electromagnets
- Won't drop load due to power outages or system air loss
- Only requires shop air for operation

Features & Specifications
- Transporter® Technology Magnets
- Structural tube framework
- Durable, welded construction
- Pneumatic release buttons on handles
- Adjustable magnet head assembly locations
- Pneumatic control valve provided
- 1/2 NPT inlet fittings
- Filter regulator with pressure gauge

Options
- Adjustable magnet positions are available to accommodate a wide variety of sheet lengths and widths
- Low profile designs
- Custom controls and hoist integrations
- Custom safety equipment integrations

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-03A.

TUBE LIFTERS & PALLETIZERS/DEPALLETIZERS

AUTOMATION

MAGNETIC TUBE LIFT SYSTEMS

USA M.A.D.E.

The Magnetic Tube Lifter transfers steel tubes from pallets, racks, work stations and more. The unique design of this permanent magnetic lifting system allows one person to safely and effectively move and load steel tubing in manual applications. Tube lifters can also be designed for automated applications to transfer tubes within a system. The Magnetic Tube Lifter features specially designed permanent magnetic lifting heads to lift a variety of tube shapes, diameters and wall thicknesses. To release tubes from the powerful magnetic heads, air cylinders located on the magnet assemblies are activated lifting the magnets up inside of the housing, allowing the tubes to be set down in the desired location.

Applications
- Loading/Unloading saws, cutting stations, welding cells and pallets
- Transferring tubes for hydroforming
- Moving single or multiple tubes between work stations
- Packaging, palletizing & depalletizing

Benefits
- Works on round, square & custom shaped tubing
- Reliability of a permanent magnetic lift with the On/Off capabilities of an electromagnet
- Fail-safe design (No battery backup required)
- Won't drop tubes due to system power or air loss
- Requires only shop air for operation

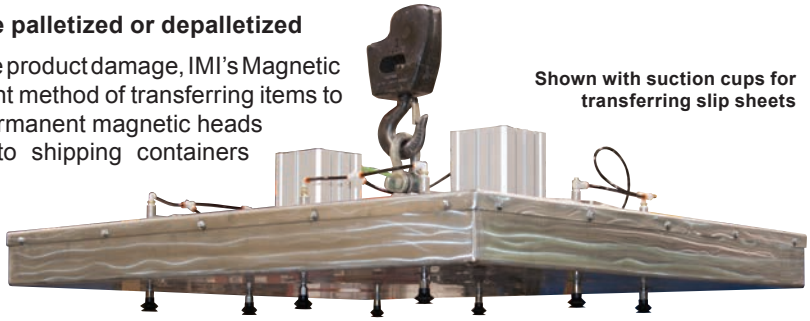
For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-03B.

MAGNETIC PALLETIZERS AND DEPALLETIZERS

USA M.A.D.E.

Safely and efficiently transfer steel items to be palletized or depalletized

Custom designed to increase production and reduce product damage, IMI's Magnetic Palletizers/Depalletizers provide a safe and efficient method of transferring items to or from pallets, boxes or cartons. The powerful permanent magnetic heads securely transfer products from accumulators to shipping containers without the need for additional holding devices.

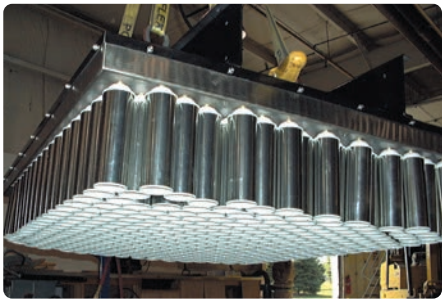


Shown with suction cups for transferring slip sheets

Typically equipped with pneumatic releases, Palletizers/Depalletizers are ideal for automated processes such as full or empty food and beverage cans, brake drums and rotors, jars with steel lids, paint cans, composite cans, batteries and more!

Benefits
- Reliability of a permanent magnet with the On/Off capabilities of an electromagnet
- Increased production for palletizing or depalletizing steel items
- Reduced repetitive labor
- Versatility in manual or automated applications, including automated sorting and counting of products

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-03C.



CONVEYORS & CONVEYOR COMPONENTS

CONVEYORS - LOW PROFILE

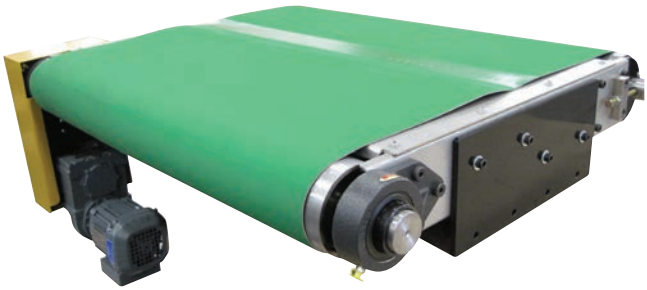
Features
- Available in Magnetic and Non-Magnetic models
- Standard sizes to match your application requirements
- Low overall clearance design requires minimal installation space
- Magnetic unit circuits are the same width as the belt to hold parts firmly from edge to edge
- Low profile design allows for fast belt replacement, reducing downtime
- Oil and abrasion resistant urethane belts
- Endless belts for longer belt life and less maintenance
- Crowned take-up pulleys for accurate belt tracking
- Designed for easy tracking and take-up adjustments
- Crowned drive pulleys are knurled for positive belt traction and accurate alignment
- Gang or individual drive options are available

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-08C.

CONVEYORS - TRANSFERRING & FEEDING

Magnetic Transfer Conveyors are ideal for automating sheet handling in various industries including: Automotive, Appliance and Office Furniture. Magnetic Transfer Conveyors contain permanent, Perm-Electro or electromagnetic rails that eliminate costly manual handling and feeding of presses, while increasing production speeds and improving safety.

Maximum sheet size, thickness, weight, surface treatments, length and direction of transfer and the type of operation are all taken into consideration when designing a transfer conveyor for your application.



Applications
- Stacking/Destacking lines
- Part transfer between work stations and presses
- Press feeding
- Coil unloading

Benefits
- Eliminate laborious hand feeding
- Increase production speeds

Features
- Easy belt removal opposite of drive side
- Drive system can be mounted on either side of the conveyor and conveyors can be gang driven

For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-08B.

MAGNETIC SKATE RAIL

Magnetic Skate Rail is ideal for use in conjunction with Magnetic Transfer Conveyors in stacking, destacking and press feeding applications. These products work together to automate sheet handling in a variety of industries including Automotive, Office Furniture and Appliance.

Typically positioned on the outside edge of a steel blank and parallel to magnetic transfer conveyor(s), the powerful magnets hold steel blanks securely up against a series of rollers, preventing flexing or bending of the sheet as it is conveyed. The neoprene rollers allow blanks to roll easily, without marring, into the press. The magnet position can be adjusted to accommodate the size and thickness of different blanks.

Benefits
- Prevents bending or flexing of large sheets during transfer, outboard of magnetic conveyors
- Reduces the need for additional magnetic conveyors

Applications
- Stacking/Destacking Lines
- Press Feeding

Features
- Powerful permanent magnetic circuit
- Adjustable magnetic strength for different gauges
- Neoprene roller wheels prevent scratching

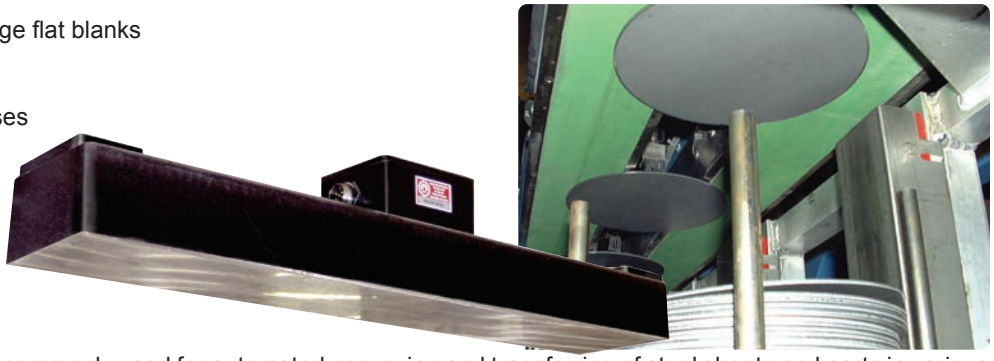
For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-08D.

PERM-ELECTRO HYBRID RAIL

USA M.A.D.E.

Applications
- For belt transfer of 22 to 12 gauge flat blanks and sheet stock
- Automated Sheet Handling
- Transfer of parts between presses
- Stacking
- Overhead Conveying

Benefits
- Automated press feeding
- Controlled Drop Points
- No battery backup required



Permanent-Electro Hybrid Rail is commonly used for automated conveying and transferring of steel sheets and parts in various industries including: Automotive, Appliance and Office Furniture. Hybrid Rail eliminates the need for time-consuming manual handling and feeding of presses. Magnetic hybrid rail increases production speeds and improves safety.

Hybrid Rail utilizes a powerful permanent magnetic circuit to move and hold steel objects during conveying. The coil is only energized for the amount of time required to release the part from the conveyor belt. This particular product is a permanent magnet with an electrical release. This fast acting On/Off action enables the magnets to be controlled for specific drop points throughout the conveying system.

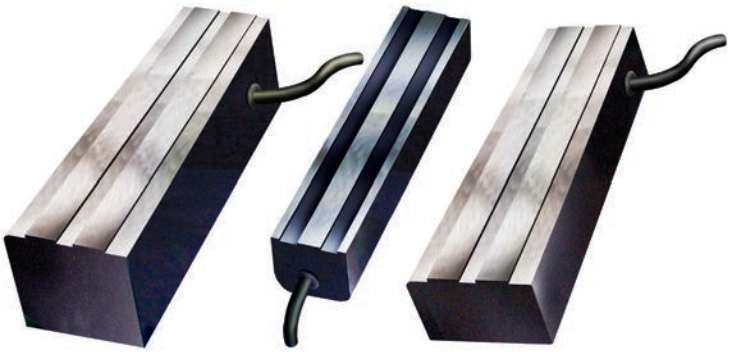
For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-08F.

ELECTROMAGNETIC CONVEYING RAIL

USA M.A.D.E.

Magnetic Electro-Rail is commonly used for automated conveying, transferring and lifting of steel sheets and parts in various industries including: Automotive, Appliance, and Office Furniture. Electro-Rail eliminates the need for costly and time-consuming manual handling and feeding of presses. Magnetic Electro-Rail increases production speeds and improves safety.

Using a powerful electromagnetic circuit to move and hold steel objects during conveying, these electromagnets provide On/Off capability and allow the user to control drop points throughout the system.



For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-08E.

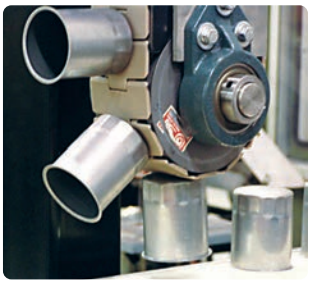
PERMANENT CONVEYING RAIL & ROLLS/PULLEYS

USA M.A.D.E.

Magnetic Conveying Rail utilizes powerful permanent magnets to hold ferrous parts such as steel containers, composite cans, lids and more firmly in place during conveying. The magnetic rail is installed as a stationary component and allows the conveyor belting to ride over the top of it. The strong magnetic field holds parts tightly to the belt surface, even during vertical, inclined or horizontal conveying. Conveying speeds can be increased while eliminating the slipping or rolling of items.

Benefits
- Increased production rates
- Uniform part orientation and holding
- Powerful Permanent Magnets
- Straight, curved or radius designs

Additional benefits include better utilization of space within a facility, noise reduction, correct part orientation and on-time material flow. IMI has a full line of quality magnetic components available in a wide variety of sizes and strengths to meet your application needs.

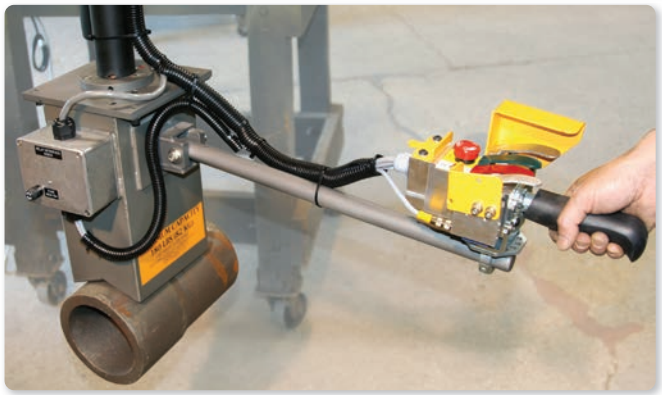


For more information on this product, contact us by phone, email or visit our website to request Tech Sheet AG-06B.

AUTOMATION CUSTOM MAGNETIC LIFTING SPECIALISTS

Our factory experts will develop a unique magnetic lifting device if a standard magnetic lift doesn't work for your application. We will be there every step of the way from field sales support to design, manufacturing and final testing.

For more information on our custom lifting products, please contact us today at 888.582.0823 or go online to www.magnetics.com



CUSTOM MAGNETIC CONVEYING SPECIALISTS

AUTOMATION

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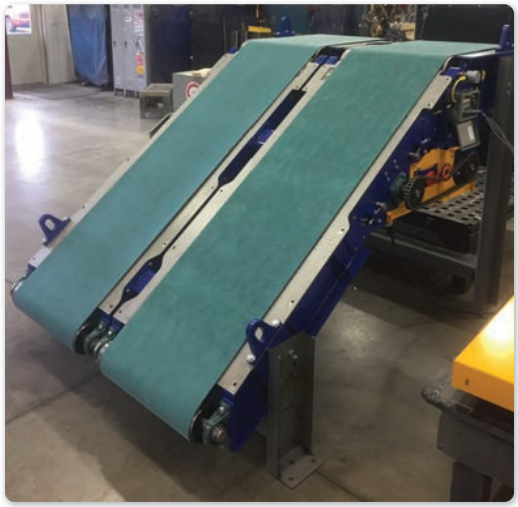
Scrap Transferring

Transferring Muffler Components

Transferring Appliance Housings Down



Test Blanks Off End of Coil

Stacking Round Blanks

Has Your Lift Magnet Been Tested?

Lift Magnets cannot be visually inspected alone. Lift Magnet Failure is often the result of internal damage to the magnetic material and is not evident by simple visual inspections that can be performed on other lifting devices.

Our Lift Magnet Testing and Certification Service performs both a thorough visual inspection and functional testing of your magnetic lifting products using testing techniques and equipment that meet the ASME B30.20 Standards for Below-the-Hook Magnetic Lifting Devices.

After testing, We provide documentation of the testing and a certificate of conformance if the magnet meets the manufacturer's labeled Working Load Limit (WLL) rating. Damaged label replacement is also included for Industrial Magnetics Inc. labeled Lift Magnets.

COMMON FACTORS FOR LIFT MAGNET LOSS OF PERFORMANCE OR FAILURE

1. Blunt force impact such as dropping, or banging on, the lift magnet can cause fractures in the magnet material
2. High heat: If the magnet is exposed to temperatures above its' capabilities it will lose magnetism
3. Exposure to electrical fields, like generators or welding ground circuits, will result in loss of magnetism.
4. External factors that influence a lift magnet's performance are; nicks, scratches, gouges, rust, etc. to the contact surface of the lifter.

INDUSTRIAL MAGNETICS, INC.

Making Things Better®

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