

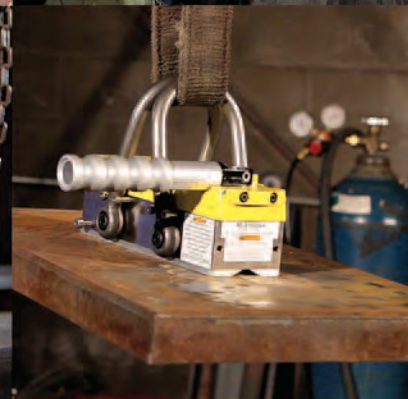


magswitch® Changing the way things are done.

Welding & Industrial

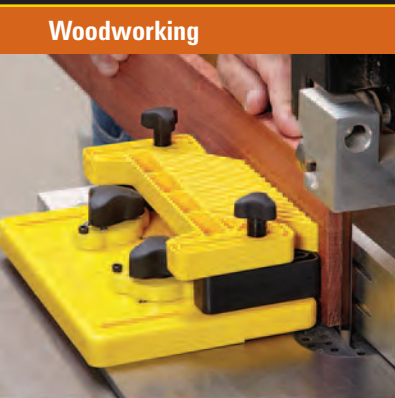


Heavy Lifting

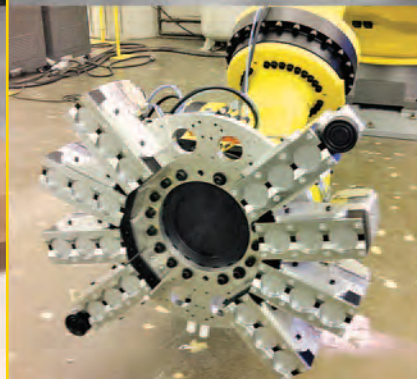
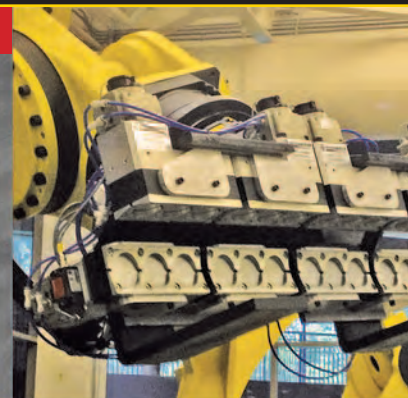


PRODUCT CATALOG | JAN 2013

Woodworking



Automation



Changing the way things are done.

Magswitch is a mechanical device that turns a permanent magnetic field completely on and off. The advantages provided by Magswitch technology offer significant, new capabilities in steel fabrication and handling.

While magnets have been a part of welding and fabricating for a long time, their role has been limited as they are often considered a hassle. Permanent magnets were left to do the small work, dismissed as too hard to control large pieces of steel. **MAGSWITCH CHANGES THAT!** The days of fighting and cleaning magnets are over forever. The power of Magswitch challenges conventional clamping and fit up methods in all steel fabrication, including the largest fabrication projects such as shipbuilding. With 90% of time spent getting steel in position to weld, productivity savings offered by Magswitch are substantial. When we introduced Magswitch technology to the welding industry in 2008 we knew we had to change perceptions. From executives, to instructors, to the person who actually does the work, we had to reprogram thinking on the use of magnets. As an executive, you simply cannot ignore the improvement Magswitch products can make to your bottom line, or the safety benefits. For those who have embraced Magswitch, they are realizing a competitive cost advantage.

So what does Magswitch mean to you?

The bottom line is, if you work with steel, Magswitch will save you money and make work easier and safer for your employees. Productivity comes with faster set ups and new tools/capabilities that streamline processes. Safety advantages come from Magswitch tools handling the steel and not your employees. From the point you receive steel in, to how you move it through your plant, to how you fabricate it, there is a Magswitch tool that will improve safety and productivity. Magswitch is just that, simply a more productive way to do the job.

While our ground clamps and our workholding tools have immediate recognizable value, you will be impressed with the revolutionary new capabilities in our other industrial tools: Cordless Electric Hand Lifter, Multi Angle Mag Vise, Cordless Electric Heavy Lifter, Sheet Handler and "shallow field" Heavy Lifter. We invite you to give them a try as we are confident you will love them.

When you see our new line of heavy lifters, fixturing and robotic tools, you will understand how Magswitch is changing the way things are done.

As you look at the products in this catalog, consider these core common features of each tool:

- Complete on/off control. Stays clean.
- Precise placement/no fighting magnets.
- Super strong – does the big work.
- Strong hold on thin steel.



Every Magswitch product is proudly designed, tested, manufactured and distributed by the Magswitch group of companies. **All Magswitch products are manufactured to ISO 9001:2008 standards.**





In this catalog, you will see this safety logo in many places. **At Magswitch, we are dedicated to safety.** We consider safety in everything we do. If you work around steel safety is the first consideration. Fewer hands on the job, touching steel, means a safer workplace. Safety is our prime design consideration, easy to turn on, lighter to lift, stability control, lift to shear, loaded with safety features.



Magswitch is a green technology
Enduring power of rare earth magnets without electricity.

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Welding & Fabrication

Professional welders and fabricators are demanding more and more tools from Magswitch. As Magswitch tools are becoming more mainstream in the market, the pros have grasped the technology and are sending more and more product ideas to Magswitch. The casual welders are jumping on board as well. Magswitch has introduced 19 new products in just the last 12 months, and many more are on the way. You simply cannot use a Magswitch tool and not go bonkers over the technology. You just haven't seen anything like it before.

Consider these "game changing" impacts of Magswitch on welding and fabrication:

- Large sheet leveling in seconds using powerful magnets.
- True destack - without two sheets sticking.
- Pulling parts out of a burn table instantly, with the push of a button.
- A vise that sets up instantly! That you don't have to screw in.
- Shipbuilders setting stiffeners in exact position – in seconds.
- A magnetic ground clamp that is self-cleaning.
- Automated welder tracks that are light weight and are precisely positioned.
- A magnetic square the size of your fist holds 1000 lb. (454 kg.)
- A cordless remote operated magnetic heavy lifter.

- A permanent magnet that lifts 20+ tons.
- A heavy magbase drill that actually stays there when the power goes out.
- A welding inspection yoke that doesn't require a power source.

These are examples of the new capabilities enabled by Magswitch. Let's put them to work for you.

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Magnetic Ground Clamps



Strong grip on flat or round surfaces.



No more tacking on tabs and searching for a ground location.

Fast set up. Grounds instantly.

| Specs | On/Off Magnetic Ground Clamp | | |
|------------------------------|------------------------------|---------|---------|
| | 200 | 300 | 600 |
| Part # | 8100340 | 8100315 | 8100316 |
| Hold (lbs/kg) on thick steel | 60/26 | 90/40 | 200/89 |
| H= (in/mm) | 2.4/62 | 2.2/57 | 2.6/66 |
| W= (in/mm) | 1.6/40 | 1.6/40 | 2.7/69 |
| D= (in/mm) | 2.1/55 | 2.7/69 | 3.9/101 |
| Wt=(lbs/kg) | 0.2/0.1 | 0.7/0.3 | 1.8/0.8 |

Magswitch On/Off Magnetic Ground Clamps let welders quickly set up, weld and move on to the next job. Simply place it on a clean work surface, turn it on and start welding. Instant ground on flat or pipe.

+ Also see Mini Multi Angle with 300 amp Ground on page 4

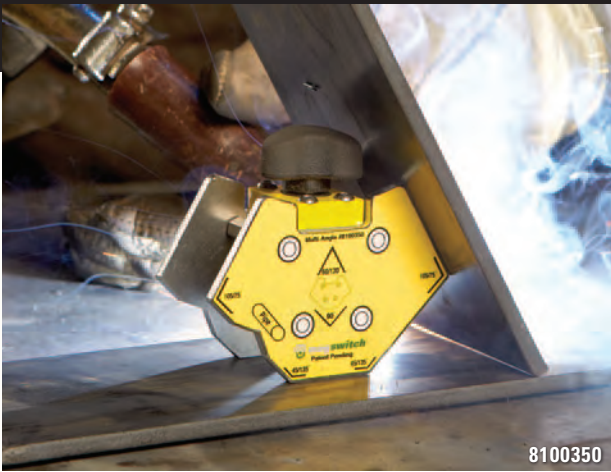


Scan link or go to http://youtu.be/LtgLYmz_hRM



Stays clean. Turn off Magswitch and wipe away debris.

Mini Angles



On/off magnetic mini angle. When off, metal debris falls off.

| Specs | Mini Angle | Mini Multi Angle | Mini Multi Angle w/ 300 amp Ground |
|-----------------------|------------|------------------|------------------------------------|
| Part # | 8100352 | 8100350 | 8100351 |
| Magnet Power (lbs/kg) | 90/40 | 90/40 | 150/67 |
| H= (in/mm) | 2.1/55 | 2.5/65 | 3.4/87 |
| W= (in/mm) | 1.2/32 | 1.2/32 | 1.6/42 |
| D= (in/mm) | 2.3/59 | 2.8/72 | 3.5/89 |
| Wt=(lbs/kg) | 0.4/0.2 | 0.4/0.2 | 0.9/0.4 |



Each Multi Angle offers several common angles: 45/135°, 60/120°, 75/105°, and 90°



8100352



8100351

Mini Angle offers a 45/135° and 90° Mini Multi Angle with Ground Clamp – grounds and holds at the same time!



Scan link or go to <http://youtu.be/3lbqXYNgk.J4>

The Magswitch line of Mini Multi Angle workholding magnets offer you more angles in one product than any other magnetic angles. If you're tired of Mini Angle magnets that claim they shut off, but really don't, then you'll love Magswitch. Magswitch Mini Angles are hassle free. They stay clean for years of use. Once you use Magswitch Mini Angles, you will never settle for anything less!

Multi Angle MagVise



8100438

Dual purpose: multi angle workholding tool and quick disconnect and connect vise.

| Specs | Multi Angle 400 MagVise | Multi Angle 1000 MagVise |
|-----------------------|-------------------------|--------------------------|
| Part # | 8100438 | 8100450 |
| Magnet Power (lbs/kg) | 400/181 | 1000/454 |
| H= (in/mm) | 3.7/95 | 5.7/146 |
| W= (in/mm) | 2.5/65 | 4.3/110 |
| D= (in/mm) | 5.0/129 | 7.2/184 |
| Wt=(lbs/kg) | 2.6/1.2 | 9.7/4.4 |

Imagine a vise that you don't have to bolt in place! The New Magswitch Multi Angle MagVise sets up in seconds and holds flat, round or odd shaped pieces. Perfect for drilling, cutting, grinding and beveling of small to medium size pieces. Doubles as a multi angle work holding tool. Two sizes offer incredible hold force.



8100450



8100438



8100450



8100450

Offers several common angles: 45/135°, 60/120°, 75/105° and 90°.

Vise applications: perfect for drilling, cutting, grinding and beveling. Holds flat, round or odd shapes.



Scan link or go to <http://youtu.be/guqrc3nDr20>

MagSquares



8100099

Fast 90 degree angles.

| Specs | MagSquare 150 | MagSquare 400 | MagSquare 600 | MagSquare 1000 |
|------------------------------|---------------|---------------|---------------|----------------|
| Part # | 8100054 | 8100238 | 8100106 | 8100099 |
| Hold (lbs/kg) on thick steel | 150/68 | 400/181 | 600/272 | 1000/454 |
| H= (in/mm) | 2.6/65 | 3.5/90 | 4.2/106 | 5.7/147 |
| W= (in/mm) | 1.6/40 | 1.6/41 | 2/52 | 2.8/72 |
| D= (in/mm) | 1.6/40 | 2.5/64 | 2.9/75 | 4.2/108 |
| Wt=(lbs/kg) | 0.6/0.27 | 2/0.91 | 3/1.36 | 7.4/3.36 |

MagSquares – workholding and fixturing.
The most versatile workholding tool ever.
A must have tool for every welding professional.

Welders and fabricators are raving about all the uses, convenience and time savings with Magswitch MagSquares. MagSquares are extremely powerful on off magnetic blocks with strong holding force available on all sides. Welders have never enjoyed this complete control over incredibly strong magnets (1,000 lbs (454 kg) on the MagSquare 1000). You can precisely position the MagSquare and material, and then turn the magnet on. MagSquares feature multi-plane workholding capability. It takes away the need for time consuming manual clamping on so many jobs, and works anywhere there is steel; you don't need an edge like you do with C-Clamps. All MagSquares are machined at 90 degrees, have pre-tapped holes on all sides for mounting tools, jigs and fixtures. Fast 180 degree turn of the knob turns the MagSquare on and off. When off, nothing sticks to them. Once you understand all the uses, the time savings in set ups, and the ability to control these powerful magnetic blocks – you will want the entire range.



8100238

Align two pieces of steel – flat or round.



8100106

Helping hand – a temporary support to hold a part or tool on a vertical wall.



8100106

Great for making your own fixtures.



8100054

Fabricate angles quickly; pull corners together with hold on multiple sides.



8100106

Use as a guide anywhere on a steel table. No limitations like clamps.



8100099

Secure steel for fabricating or cutting.

Features:

- Incredibly strong.
- Fast, precise positioning.
- Mounts anywhere – no limitations like clamps.
- Magnetic grip on 5 sides.
- Mounts to flat and pipe.
- Pre-tapped holes on all sides for mounting.
- Great for making your own fixtures.
- Destack sheet (make a fixture using multiple MagSquares to destack large sheet).

*For more examples of fixturing with Magswitch visit our website at www.magswitch.com.au.



Scan link or go to <http://youtu.be/FsvUMzH56t4>



When you set up and position steel for a weld, we believe that it should be easy and fast. Positioning mechanical clamps or getting a helping hand is time consuming and adds to hands on the material. Magswitch is fast on, turns off, saves time and burrs in your fingers.

Pivot Angle 200



| Specs | Pivot Angle 200 |
|------------------------------|-----------------|
| Part # | 8100367 |
| Hold (lbs/kg) on thick steel | 200/90 |
| H= (in/mm) | 9.4/240 |
| W= (in/mm) | 3.5/91 |
| D= (in/mm) | 9.4/240 |
| Wt=(lbs/kg) | 3.5/1.6 |

Odd angles in seconds.

Magswitch Pivot Angle offers a range of angles from 22 to 270 degrees. Each axis features a Magswitch with a 200 lbs (90kg) hold capability. A single pivot point is located on the elbow. The elbow joint locks and unlocks quickly with a lever. The dial on the elbow features indicators every 5 degrees. On each axis a Magswitch is exposed on a side to enable the tool to secure to a table or wall, while simultaneously holding the work piece. Perfect for repetitive work on uncommon angles.



Single locking lever on elbow for fast securing of your angle.



Degree angle indicator on elbow.



Each magnet holds on two sides.



Scan link or go to <http://youtu.be/EhLQFxz2FFc>

is exposed on a side to enable the tool to secure to a table or wall, while simultaneously holding the work piece. Perfect for repetitive work on uncommon angles.

BoomerAngles



| Specs | BoomerAngle 150 | BoomerAngle 400 | BoomerAngle 600 |
|------------------------------|-----------------|-----------------|-----------------|
| Part # | 8100091 | 8100453 | 8100090 |
| Hold (lbs/kg) on thick steel | 150/68 | 400/181 | 600/272 |
| H= (in/mm) | 7.7/197 | 10.2/258 | 10.1/258 |
| W= (in/mm) | 5.5/140 | 4.3/109 | 6.6/169 |
| D= (in/mm) | 7.7/197 | 10.2/258 | 10.1/258 |
| Wt=(lbs/kg) | 2.9/1.3 | 6.6/3.0 | 9.7/4.4 |

Holds flat and round – perfect for working with pipe and fence set ups.

Magswitch BoomerAngles offer virtually unlimited angles. With a rotating MagSquare at the end of each axis. Magswitch BoomerAngles offers not only a fixed 90 degree angle on the inside and outside, but are adjustable to any angle in between. Featuring the benefits of Magswitch including incredible power and precision control, Magswitch BoomerAngles are easy to use, and can be used with larger and heavier steel.



Rotating Magswitches for virtually unlimited angles.



Quick adjust lever for fast precise positioning.

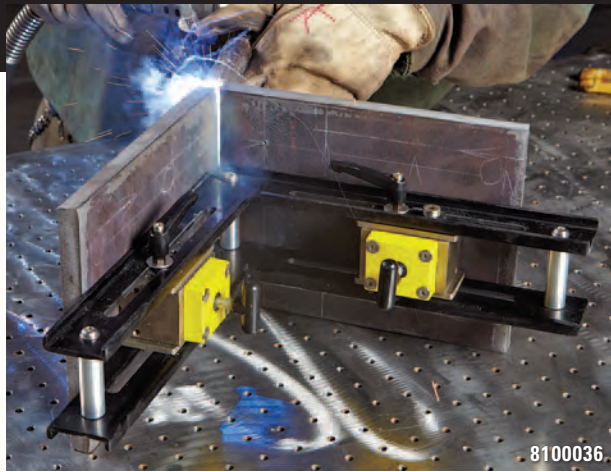


Preset 90 degrees inside or outside.



Scan link or go to <http://youtu.be/Z-OrHiDsYhM>

90 Degree Angles



MagSquares can be repositioned or reversed on each axis.

| Specs | 90 Degree Angle 150 | 90 Degree Angle 400 | 90 Degree Angle 600 | 90 Degree Angle 1000 |
|------------------------------|---------------------|---------------------|---------------------|----------------------|
| Part # | 8100010 | 8100454 | 8100036 | 8100503 |
| Hold (lbs/kg) on thick steel | 150/68 | 400/181 | 600/272 | 1000/454 |
| H= (in/mm) | 8.0/205 | 11.2/288 | 11.2/288 | 11.3/287 |
| W= (in/mm) | 2.3/58 | 3.8/98 | 4.1/104 | 5.7/145 |
| D= (in/mm) | 8.0/205 | 11.2/288 | 11.2/288 | 18.6/474 |
| Wt=(lbs/kg) | 1.8/0.8 | 6.2/2.8 | 8.2/3.7 | 10.2/4.6 |

Magswitch 90 degree Welding Angles are the most versatile in the market. Featuring the benefits of Magswitch including incredible power and precision control, the Magswitch 90 degree angles are easy to use, and can be used with larger and heavier steel. All Magswitch 90 degree angles allow you to reposition the magnets up

or down on each axis (only vertical axis on #8100503), or reverse from outside to inside. If you want more strength, just add more Magswitch MagSquares.



180-degree turn of the knob turns magnet on and off.



Add MagSquares on each axis for extra holding power.



New 90 Degree Angle 1000 for heavy fabrication work.



Scan link or go to <http://youtu.be/8w-yf0G2SdY>

Extenda-Lifts



No need to bend over and pickup materials.

| Specs | Extenda-Lift 600 | Extenda-Lift 1000 |
|------------------------------|------------------|-------------------|
| Part # | 8100025 | 8130177 |
| Hold (lbs/kg) on thick steel | 600/272 | 1000/454 |
| H= (in/mm) | 28.2/724 | 28.2/724 |
| W= (in/mm) | 2.7/68 | 4.2/107 |
| D= (in/mm) | 4.6/117 | 4.8/122 |
| Wt=(lbs/kg) | 5.3/2.4 | 9.8/4.4 |

With the Magswitch Magnetic Extenda-Lift, you can pick up and move steel without bending over and using your hands; offering convenience and safety advantages. You can pick up plate, pipe, or steel scrap off the floor with ease. Also works great for picking up hot, sharp or dirty steel without touching it. Extenda-Lift 600 has 600 lbs (272 kg) of hold force. Extenda-Lift 1000 has 1000 lbs (454 kg) of hold force. Ideal for cities and utilities. Valve box and small lid removal.



Super strong hold.



Picks up flat or round shapes.



Scan link or go to <http://youtu.be/vklagoSHGv8>



It is always a concern when you have to reach down or bend over to pick up steel. That's why our Extenda-Lift does this for you. Easy on the back!

Hand Lifter 60-M (Manual)



Hand lifter for all your small steel handling needs.

| Specs | Hand Lifter 60-M (Manual) |
|------------------------------|---------------------------|
| Part # | 8100359 |
| Hold (lbs/kg) on thick steel | 235/106* |
| H= (in/mm) | 5.5/140 |
| W= (in/mm) | 4.7/120 |
| D= (in/mm) | 2.3/60 |
| Wt=(lbs/kg) | 1.3/0.6 |

**We recommend a safe lifting load of 60 lb/27 kg for hand lifters.*

Add safety and convenience to every workstation. The Magswitch Manual Hand Lifter 60-M lets you pick, place, slide and reposition steel without using your fingers. No need to touch hot, sharp, or dirty steel. Ideal for small steel handling, dragging sheet, picking, placing and pulling parts out of burn table or handling scrap.



Pivot handle allows use as a hand lifter or a sheet dragger.



Pipe groove for transporting pipe.



Handle options: fixed vertically or pivot.



Scan link or go to <http://youtu.be/655UAQ0TyDQ>

Hand Lifter 60-CE (Cordless Electric)



Perfect for removing parts and cut outs from burn tables. The cordless hand lifter holds hot, sharp, dirty steel with the press of a button!

| Specs | Hand Lifter 60-CE (Cordless Electric) |
|------------------------------|---------------------------------------|
| Part # | 8100385 |
| Hold (lbs/kg) on thick steel | 235/106 |
| H= (in/mm) | 8.2/209 |
| W= (in/mm) | 6.7/173 |
| D= (in/mm) | 2.9/75 |
| Wt=(lbs/kg) | 2.4/1.1 |



Includes two rechargeable batteries and charger.



Hand Lifters are among our best safety tools.

The "world's first" Cordless Electric Hand Lifter! The Hand Lifter 60-CE is a must for every metal fab shop. The Cordless Electric Hand Lifter is ideal for pulling parts out of a burn table, picking up steel to place on a work table, in a fixture, or handling scrap parts. 2000 actuations per charge.



Faster and safer handling of steel.



Push button on/off control. Ideal for fast repetitive lifting.



Scan link or go to <http://youtu.be/655UAQ0TyDQ>

Replacement Parts:
 4 Volt Rechargeable Batteries (2-Pack) – #8800053
 Battery Chargers:
 US/CAN – #8800054
 UK/SA – #8800054UK
 Europe – #8800054GE
 Australia – #800054AU

Sheet Aligning Tools



Center Sheet Handler over the seam, turn Magswitch on, press to align and tack.

| Specs | Mag Pry | Sheet Handler |
|------------------------------|----------|---------------|
| Part # | 8100081 | 8100361 |
| Hold (lbs/kg) on thick steel | 1100/500 | 1800/818 |
| H= (in/mm) | 19.8/508 | 60.6/1539 |
| W= (in/mm) | 5.6/143 | 9.2/234 |
| D= (in/mm) | 6.2/160 | 8.0/203 |
| Wt=(lbs/kg) | 9.3/4.2 | 21.2/9.6 |



No more pounding, breaking, grinding or clamping to level steel. Just turn the magnet on and pull the lever to align.

Ask any welder how long it takes to align large sheet with precision. Magswitch offers two solutions that yield incredible time savings. The Mag Pry features 1,100 lbs (500kg) of hold force instantly! Using magnetic force and leverage, the tool aligns the sheets! The Sheet Handler operates on the same principal, but for large sheets.

The Sheet Handler offers up to 1,800 lbs (818kg) of hold force, and features an extendable handle.



Align sheets in seconds.



Eliminates welded bars and wedges. Incredible time savings.



Scan link or go to <http://youtu.be/Jp3AJ3B-h5g>

Sheet Handler Tools



Easy on off magnet actuation. Complete control – stays clean.

| Specs | Sheet Handler | Mag Dolly |
|------------------------------|---------------|-----------|
| Part # | 8100361 | 8100433 |
| Hold (lbs/kg) on thick steel | 1800/818 | NA |
| H= (in/mm) | 60.6/1539 | 36.1/917 |
| W= (in/mm) | 9.2/234 | 13.5/343 |
| D= (in/mm) | 8.0/203 | 71.9/1826 |
| Wt=(lbs/kg) | 21.2/9.6 | 20.8/9.4 |

The heavy lifter recommended for the Mag Dolly is MLAY1000x3 (pt # 8100403). 3000lb hold force on page 15.

Magswitch offers two tools for large sheet handling, the Sheet Handler and the Mag Dolly. The Sheet Handler enables you to pivot and lift sheet up and onto a wheel so it can be dragged or moved. This is a perfect tool if you need to lift and slide one sheet over another. The Mag Dolly (#8100433) has large solid rubber wheels and can

move larger sheets. The Mag Dolly is more suited to lift and carry sheet, pipe or any steel object over a greater distance.



Save time by using on off magnets and wheels to move sheet.



Sheet Handler doubles as sheet leveler. See above.



Mag Dolly lifts flat or round shaped steel.



Scan link or go to <http://youtu.be/Jp3AJ3B-h5g>

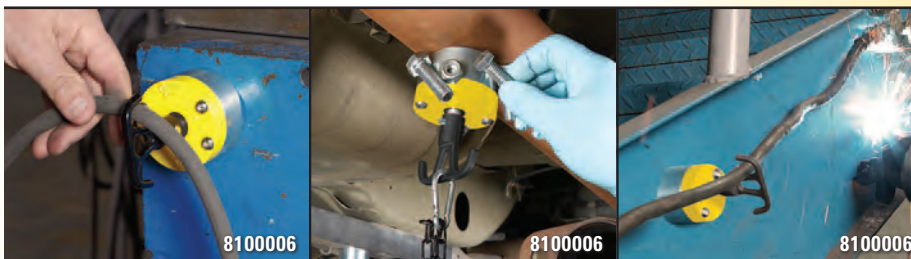
Mag-Utility Hooks



Save time by keeping parts or tools within reach.

| Specs | Mag-Utility Hook 25 | Mag-Utility Hook 40 |
|------------------------------|---------------------|---------------------|
| Part # | 8100012 | 8100006 |
| Hold (lbs/kg) on thick steel | 25/11 | 40/18 |
| H= (in/mm) | 3.5/89 | 4.0/103 |
| W= (in/mm) | 1.6/40 | 2.7/69 |
| D= (in/mm) | 1.8/47 | 2.7/69 |
| Wt=(lbs/kg) | 0.4/0.2 | 1.8/0.8 |

The perfect "helping hand." Magswitch Mag-Utility Hooks let you hang tools, lights, support wires, air hoses, ground lines and more, right where you need them, quickly and easily. Ideal for keeping hoses and lines off the floor for a safer work environment. Mag-Utility Hooks are convenient and easily move from job to job.



Attaches to flat or round surfaces.

Hang tools, nuts or bolts near your work area.

Safety: keep your job site or shop clear of trip hazards.



Eliminate trip hazards. Use Mag-Utility Hooks to keep lines and hoses off the floor.

Every Magswitch product is proudly designed, tested, manufactured and distributed by the Magswitch group of companies.

All Magswitch products are manufactured to ISO 9001:2008 standards.

Heavy Lifters

The introduction of Magswitch technology is making magnetic lifters a mainstream tool when working with steel. The convenience of magnetic lifting and strength in permanent magnets arising from the discovery of rare earth magnetic material has opened the door for more applications. Permanent magnets are now employed to lift heavy steel where previously only trusted to hooks or straps. In these advancements, Magswitch Technology takes the capabilities and safer use of magnetic lifting to a whole new level of safety and strength.

With a full range of shallow field and deep field lifting magnets, Magswitch lifters will forever change the way you buy a heavy lifting magnet.

Capitalizing on the technology breakthroughs of Magswitch, our lifters offer substantial advantages in strength, size, control and features over old technology lifters. This translates to safer lifting for your team. When you consider the substantial convenience of using a magnetic lifter instead of hooks and slings, magnetic lifters offer tremendous efficiency in steel handling. When using magnetic lifters, safety is paramount. Don't settle for cheap, old technology lifters – with Magswitch, you will get the right lifter.

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Delivering  safety[®] solutions for lifting. – Magswitch

Magswitch heavy lifting magnets.




Technology Advantages:




Magswitch lifters exert full hold force on thin steel. 

- » The majority of steel lifted is less than 1" inch thick.
- » Old technology lifters hold far less on thinner steel.
- » Our shallow field MLAY600 series exerts full hold force at only 1/2".
- » Our deep field MLAY1000 exerts full hold force at only 3/4" inch.

» Don't buy a lifter based on max hold weight – buy the lifter that is right for the steel you lift.

Better hold on uneven, dirty steel or on round shapes. 

- » Magswitch lifters feature a more concentrated flux field. This translates to a safer hold when lifting these types of materials.
- » Safety is paramount – buy Magswitch for a stronger hold.

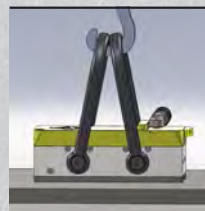
Magswitch Lifters are easier to turn on. 


- » No ergonomic nightmares turning on a Magswitch lifter. A huge application advantage, especially on the larger lifters where old technology lifters are virtually impossible to turn on, on steel 1" inch thick or less.

Magswitch lifters are lighter and thus easier and safer to handle.

World's first! Magswitch technology enables full field saturation at 1.25"/30mm on our one ton and two ton lifters.

Feature Advantages:



Dual hook: load stability 
(Patent Pending – App #61/665,611 USA).


- » Use both hooks for safer lifts as the force of the lift exerts a stabilizing force on the magnet and reduces dangerous swings in the load.



Single hook: lift from horizontal to vertical.

- » Use one swivel hook when lifting from flat to vertical.



Lock on, lock off handle 

- » Better safety.

Replaceable pole shoes.

- » The bottom takes the beating – but is important to keep smooth for safe lifting. Periodically replace the pole shoes to extend the life of the lifter.

How to select the right Magswitch lifter.

Choosing the right lifter is very important for safer lifting. NEVER select lifters based only on “max lift rating”. There are other critical factors in the decision. The old technology lifters market this way (max lift), but lift ratings drop off dramatically on thinner steel – which is most of the steel you handle. ALWAYS select lifters based on what you are lifting.

Magswitch delivers safety.

When using magnetic lifters, always play it safe. Saving a few dollars on a magnetic lifter is not worth the risk. Safety comes first. When you look at the grid below, look at the rated safe lift capabilities of each magnet and note the magnets that qualify for the job. Then consider your answers to the selection criteria and adjust your choice to select the ideal lifter. Always keep in mind how old technology lifters drop off significantly from max hold force on thinner material. Don't buy a lifting magnet based only on “max” hold, and then find out it doesn't hold as expected on thinner material.

Important considerations when choosing a lifter:

What is the thickness of the piece I am lifting?

If 1/2" or less – you need a shallow field Tool. The MLAY 600 series is designed specifically for half inch material from 200 lbs to 800 lbs in one stability improved unit.

What is the weight of the piece I am lifting?

What is the dimension of the piece I am lifting?

If round or odd shaped – The MLAY 1000 series is our deep field unit and is the better choice. Designed for coated steel, rough surfaces and round stock.

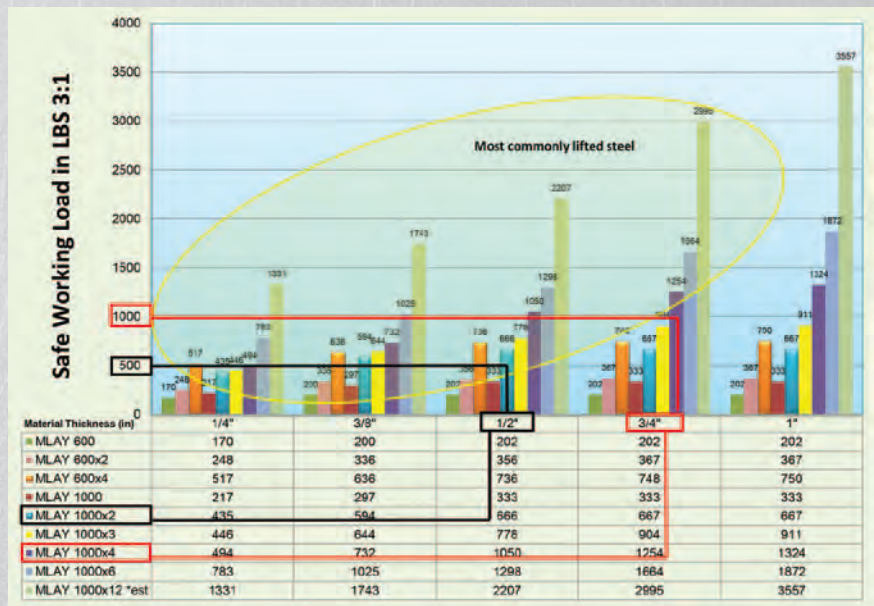
What is the type of steel I am lifting?

If a porous or dirty material – consider the MLAY1000 for deeper field hold.

Do I need remote on/off control – for example, lowering a piece on a cutting table?

Consider the cordless electric heavy lifter (Part #8100387).

For assistance selecting the appropriate lifter, fill out the form at the link below:
<http://tinyurl.com/a8b8266>



| | Part # | Product Description | Safe Working Load 3:1 | Full Saturation Breakaway (in LBS.) | THIN STEEL Safe Working Load on 1/4" 3:1 |
|---------------|---------|---|-----------------------|-------------------------------------|--|
| Shallow Field | 8100089 | Magswitch MLAY600 Lifting Magnet | 200 lb/90 kg | 600 lb/272 kg | 170 lb/77 kg |
| | 8100360 | Magswitch MLAY600x2 Lifting Magnet | 367 lb/167 kg | 1,100 lb/500 kg | 248 lb/112 kg |
| | 8100364 | Magswitch MLAY600x4 lifting Magnet | 762 lb/346 kg | 2,285 lb/1,036 kg | 517 lb/234 kg |
| Deep Field | 8100088 | Magswitch MLAY1000 Lifting Magnet | 333 lb/151 kg | 1,000 lb/454 kg | 205 lb/95 kg |
| | 8100484 | Magswitch MLAY1000x2 Lifting Magnet | 667 lb/303 kg | 2,000 lb/907 kg | 425 lb/196 kg |
| | 8100403 | Magswitch MLAY1000x3 Lifting Magnet | 911 lb/414 kg | 2,733 lb/1,242 kg | 446 lb/202 kg |
| | 8100418 | Magswitch MLAY1000x4 Lifting Magnet | 1,300 lb/591 kg | 3,900 lb/1,773 kg | 494 lb/224 kg |
| | 8100482 | Magswitch MLAY1000x6 Lifting Magnet | 2,149 lb/977 kg | 6,446 lb/2,930 kg | 700 lb/317 kg |
| | 8100549 | Magswitch MLAY1000x12 Lifting Magnet | 4,000 lb/1,850 kg | 12,000 lb/6,000 kg | 1,331 lb/604 kg* |
| | 8100387 | Magswitch E50-900/660 CE Lifting Magnet | 600 lb/272 kg | 1,800 lb/816 kg | 380 lb/172 kg |



New heavy lifters training video

Scan link or go to <http://youtu.be/mzEsunXqe7c>



Heavy lifters in-use video

Scan link or go to <http://youtu.be/GHWQABTqzA>

Chart values represent data collected using SAE 1020 steel only. Please consult your distributor for information regarding de-rating factors for other materials. *Estimated. **Note: no information contained herein may take precedence over ASME B30.20 standard.

MLAY600 Lifting Magnets (x1 and x2)



Lightweight, small profile and strong lift.

| Specs | MLAY600 Lifting Magnet | MLAY600x2 Lifting Magnet |
|--------------------------------------|------------------------|--------------------------|
| Part # | 8100089 | 8100360 |
| Max. SWL 3:1 lift capacity (lbs/kgs) | 200/90 | 367/166 |
| Minimum de-stack thickness | Shallow 1/2"/12.7mm | Shallow 1/2"/12.7mm |
| H= (in/mm) | 7.2/184 | 6.7/170 |
| W= (in/mm) | 4.1/106 | 8.9/226 |
| D= (in/mm) | 2.0/52 | 5.0/127 |
| Wt=(lbs/kg) | 4.4/2.0 | 9.5/4.3 |

The Magswitch MLAY600 series magnets are perfect for small materials and light to medium lifting. These lifters are lightweight and have a small profile, and feature our full swivel hook for lifting from the top or the side. Each features a locking handle to ensure release of load is only intentional. The MLAY600x2 has the option to order a custom shoe that mounts underneath for handling of customized shapes. Manual on/off operation.



Scan link or go to <http://youtu.be/KF7qRD64aYw>

With full field saturation (hold force) at 1/2" (12mm) these lifters are ideal for thinner steel, but hold thick steel just as well.



Ideal for small to medium lifting.

Features full swivel hook.

MLAY600 Lifting Magnet (x4)



Safety: patented dual hook for added load stability.

| Specs | MLAY600x4 Lifting Magnet |
|--------------------------------------|--------------------------|
| Part # | 8100364 |
| Max. SWL 3:1 lift capacity (lbs/kgs) | 762/346 |
| Minimum de-stack thickness | Shallow 1/2"/12.7mm |
| H= (in/mm) | 6.5/166.47 |
| W= (in/mm) | 8.9/226 |
| D= (in/mm) | 9.2/234 |
| Wt=(lbs/kg) | 17.9/8.1 |

The MLAY600x4 is lightweight yet very strong. This lifter features our patented dual hook for load stability, and single hook for lifting horizontal to vertical. With full field saturation (hold force) at 1/2" (12mm) this lifter is ideal for thinner steel, but will hold thick steel just as well.



Scan link or go to <http://youtu.be/KF7qRD64aYw>



Use the single hook to lift horizontal to vertical.

MLAY1000 Lifting Magnets (x1 and x2)



8100088



8100484

| Specs | MLAY1000 Lifting Magnet | MLAY1000x2 Lifting Magnet |
|--------------------------------------|-------------------------|---------------------------|
| Part # | 8100088 | 8100484 |
| Max. SWL 3:1 lift capacity (lbs/kgs) | 333/151 | 667/302 |
| Minimum de-stack thickness | Deep 3/4"/19.05mm | Deep 3/4"/19.05mm |
| H= (in/mm) | 9.9/253 | 10.6/269 |
| W= (in/mm) | 5.7/147 | 7.6/193 |
| D= (in/mm) | 2.8/72 | 23.2/10.5 |
| Wt=(lbs/kg) | 11.5/5.2 | 23.8/10.8 |

For heavy lifting, the MLAY1000 series lifters attain full hold on 1 inch (25mm) thick steel. These Lifters feature our full swivel hook for lifting from the top or the side. Each is manual on/off. Each features a lock for on and off position for added safety.



The MLAY1000x2 features a replaceable pole shoe, ideal for customizing to fit your application. With full field saturation (hold force) at 1" (25mm) this lifter is ideal for porous material and thick steel.

Scan link or go to <http://youtu.be/KF7qRD64aYw>

MLAY1000 Lifting Magnets (x3, x4, x6 and x12)



8100418

Safety: patented dual hook for added load stability.



Includes replaceable pole shoe to extend the life of the lifter.

Use single hook to lift between horizontal to vertical.

| Specs | MLAY1000x3 Lifting Magnet | MLAY1000x4 Lifting Magnet | MLAY1000x6 Lifting Magnet | MLAY1000x12 Lifting Magnet |
|--------------------------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Part # | 8100403 | 8100418 | 8100482 | 8100549 |
| Max. SWL 3:1 lift capacity (lbs/kgs) | 911/414 | 1300/591 | 2149/977 | 4000/1818* |
| Minimum de-stack thickness | Deep 3/4"/19.05mm | Deep 3/4"/19.05mm | Deep 1"/25.4mm | Deep 1.25"/31.8mm |
| H= (in/mm) | 10.4/265 | 9.8/250.79 | 9.5/242.52 | 10/254* |
| W= (in/mm) | 10.2/260 | 10.2/260 | 10.2/260 | 14/358* |
| D= (in/mm) | 10.7/272 | 13.8/350 | 20.1/510 | 19.5/492* |
| Wt=(lbs/kg) | 36.5/16.6 | 45.2/20.5 | 60.3/27.4 | 120/55* |

*Estimated Values

For heavy lifting the MLAY1000 series lifters attain full hold on 1 inch (25mm) thick steel. These lifters are lightweight and easy to turn on versus old technology lifters which are difficult to activate on thick steel. For example the MLAY1000 x4 and x6 can easily be activated on 1/2" (12mm) thick steel. What this means to you is that Magswitch enables you to use powerful lifters on thinner steel. These lifters features our patented dual hook for load stability, and single hook for lift between horizontal to vertical. With full field saturation (hold force) at 1" (25mm) these lifters are ideal for porous material and thick steel.



Scan link or go to <http://youtu.be/KF7qRD64aYw>

E50 - 900/660 CE with Remote Control



World's first cordless electric heavy lifter.

| Specs | Magswitch E50 – 900/660 CE with Remote Control |
|--------------------------------------|--|
| Part # | 8100387 |
| Max. SWL 3:1 lift capacity (lbs/kgs) | 600/272 |
| Minimum de-stack thickness | Shallow 1/2"/12.7mm |
| H= (in/mm) | 13.0/330 |
| W= (in/mm) | 4.0/102 |
| D= (in/mm) | 9.2/235 |
| Wt=(lbs/kg) | 19.4/8.8 |

Magswitch introduces the world's first cordless electric heavy lifter. The ideal lifter for transporting steel in hard to reach places such as narrow beams where manual on/off lifters are hard to turn on, or places where using a manual lifter are unsafe such as steel located high up on racks or steel sheet being placed on a cutting or burn table. The Magswitch cordless electric lifter offers unprecedented convenience and safety for your employees. One operator can work alone and control the lifter from a safer distance.

Features remote control operation for single operator efficiency. No lifter has ever been this easy and offers this level of safety. The remote control features allow the operator to turn on and off the magnet from a safer distance. No need for time consuming set ups, in fact the operator doesn't even need to do anything but lower the lifter on to the target and turn on the lifter magnet with his remote control. This cordless electric lifter achieves full hold on 1/2" (12.7mm) steel.



Large remote helps prevent misplacement.

Comes with two 12 volt batteries and charger.



Remote on/off operation.



Safety and convenience: one operator remote lifting from a safer distance.



- **Safety:** load sensor prevents accidental release while under load.
- **Safety:** warning light flashes on top of unit to give a 3 second warning to when the load is about to release.
- **Safety:** Holds load even if battery loses charge.
- **Safety:** Lifter magnet will not turn on unless on a sufficient steel target.
- **Safety:** intelligent sequencing to prevent accidental off.
- On / off permanent magnet – NOT AN ELECTROMAGNET.
- Magnet "ON" indicator light on lifter.
- Battery charge indicator on lifter blinks when battery needs recharge.
- Comes with two 12 volt rechargeable Lithium-ion batteries and a charger, so you always have a spare charged battery on hand.
- Battery offers up to 750 actuations per charge.
- Lifts flat and pipe.
- Manual on/off override feature, if battery loses charge.
- Compact – fits in narrow beams.



Scan link or go to <http://youtu.be/WJFsNGaHnfg>

MagJig Fixturing



Ideal for securing fixtures to a table.

| Specs | MagJig 95 | MagJig 150 | MagJig 235 | MagJig 60 Keychain |
|-------------------------------|-----------|------------|------------|--------------------|
| Part # | 8110004 | 8110005 | 8100377 | 8100514 |
| *Hold (lbs/kg) on thick steel | 95/43 | 150/68 | 235/106 | 60/27 |
| H= (in/mm) | 1.9/47 | 2.1/52 | 3.1/78 | 1.75/44.6 |
| W= (in/mm) | 2.3/57 | 2.6/67 | 3.5/88 | 1.55/39.4 |
| D= (in/mm) | 1.4/34 | 1.7/44 | 2.4/60 | 1.00/25.4 |
| Wt=(lbs/kg) | 0.4/0.2 | 0.6/0.20 | 1.0/0.45 | 0.2/0.1 |

MagJigs are ideal for downward pressure clamping. All MagJigs come with a 3/4" standoff for flush mount. Simply drill a hole in the fixturing material and place the clamp in. The MagJigs come with screw holes so you can secure the jig in the fixture. We recommend at least two MagJigs per fixture to minimize slippage.

MagSquare Fixturing



For more examples of fixturing with Magswitch visit our website at www.magswitch.com.au.

| Specs | MagSquare 150 | MagSquare 400 | MagSquare 600 | MagSquare 1000 |
|------------------------------|---------------|---------------|---------------|----------------|
| Part # | 8100054 | 8100238 | 8100106 | 8100099 |
| Hold (lbs/kg) on thick steel | 150/68 | 400/181 | 600/272 | 1000/454 |
| H= (in/mm) | 2.6/65 | 3.5/90 | 4.2/106 | 5.7/147 |
| W= (in/mm) | 1.6/40 | 1.6/41 | 2/52 | 2.8/72 |
| D= (in/mm) | 1.6/40 | 2.5/64 | 2.9/75 | 4.2/108 |
| Wt=(lbs/kg) | 0.6/.27 | 2/0.91 | 3/1.36 | 7.4/3.36 |

MagSquares are the ultimate fixturing tool. Incredibly flexible with mounting capabilities on 4 sides. Just a simple 180 degree turn of the knob and you are set up. Use stand alone, or mount fixturing aides to sides. Great for supporting guides and walls. Magnetic hold on 5 sides. Use non-ferrous materials in fixture attachments.

Top Mount Tools Fixturing



Locking lever. 90° actuation. 235 lbs (106 kg) hold force.

| Specs | MagMount 150 | MagMount 235 | MagMount 400 | MagMount 600 | MagMount 235x2 SP | MagMount 150x2 RFP |
|------------------------------|--------------|--------------|--------------|--------------|-------------------|--------------------|
| Part # | 8100579 | 8100451 | 8100523 | 8100580 | 8100374 | 8100104 |
| Hold (lbs/kg) on thick steel | 150/68 | 235/106 | 400/182 | 600/272 | 470/214 | 300/136 |
| H= (in/mm) | 1.3/32 | 3.8/98 | 2.6/65 | 2.8/72 | 2.4/60 | 2.5/64 |
| W= (in/mm) | 1.6/42 | 2.7/68 | 2.5/64 | 3.9/100 | 10/257 | 9.2/234 |
| D= (in/mm) | 2.0/51 | 1.7/44 | 1.6/41 | 2.5/64 | 2.6/67 | 2.0/50 |
| Wt=(lbs/kg) | 0.8/0.4 | 1.2/0.5 | 1.2/0.5 | 3.3/1.5 | 2.9/1.3 | 2.0/0.9 |

Single lever operation and available in two sizes depending on your needs. The rail magnets come in two sizes. The top mount magnets feature two magnets and a bar and are ideal for supporting fixtures over a distance. The fixed bar magnet is for flat steel, the swivel bar magnet is for round or uneven shapes.

MagWheel – Roller Guide



MagWheel provides all the features of a standard Magswitch on the move.



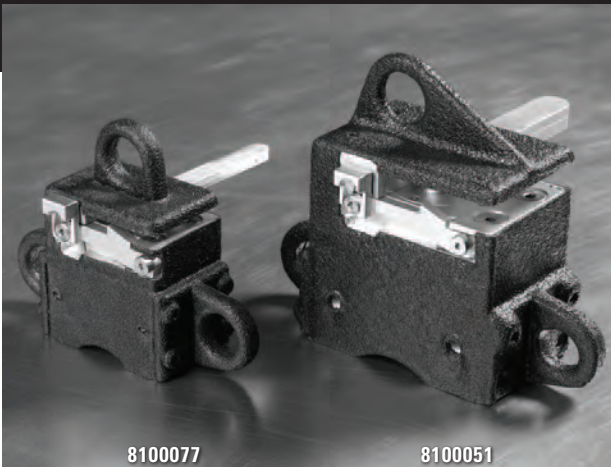
MagWheel illustrated on a Bug-O® automated welder.

| Specs | MagWheel 95 | MagWheel 150 | MagWheel 600 | MagWheel 1000 |
|-----------------|----------------|--------------|--------------|----------------|
| Part # | 8100401 | 8100074 | 8100075 | 8100250 |
| Size | 0.78"/20mm | 1.2"/30mm | 2"/50mm | 2.75"/70mm |
| Breakaway Force | 38.5lbs/17.5kg | 65lbs/29.5kg | 292lbs/133kg | 528lbs/239.5kg |
| Unit Weight | 0.66lbs/0.3kg | 2.2lbs/1kg | 6.6lbs/3kg | 20lbs/9kg |

The Magswitch MagWheel offers powerful connection for drive units on any ferrous surface enabling flat, vertical or inverse travel. Applications include positioning and guiding, sheet feeding, pipe handling, fitting and fabrication and numerous OEM automation and fixturing applications. MagWheel can be fitted with drive units for mobile applications. MagWheel results in efficiency, new applications and productive solutions.

Underneath the patented MagWheel design is the highly functional AR Housing. Through clever innovation of the original Magswitch, the MagWheel provides all the features of a standard Magswitch on the move. The magnetic flux path through the wheels means climbing, carrying, and driving anywhere above or below a ferrous surface is now a reliable, fail-safe reality.

Marine Products – MagTethers



Mounts to flat or curved surfaces.

| Specs | MagTether 300 | MagTether 600 | MagTether 1000 |
|------------------------------|---------------|---------------|----------------|
| Part # | 8100111 | 8100077 | 8100051 |
| Hold (lbs/kg) on thick steel | 240/108 | 600/272 | 1000/455 |
| H= (in/mm) | 5.2/131 | 7.2/184 | 10.0/253 |
| W= (in/mm) | 2.0/50 | 2.0/50 | 2.8/71 |
| D= (in/mm) | 4.2/106 | 4.2/106 | 7.5/190 |
| Wt=(lbs/kg) | 2.2/1.0 | 4.0/1.8 | 10.0/4.5 |

Ideal for underwater welding and tethering.

Magswitch Marine Tethers provide fast super strong switchable magnets that allow above and below water operators to fasten themselves or their equipment while working on steel hull ships or structures with an easy 180° turn of a lever. Underwater repairs and inspection can be difficult work trying to maintain position. Magswitch Tethers solve this challenge with quick connect – disconnect, strong hold. Ideal for use in military and commercial applications including oil and gas. Tethers include marine grade corrosive resistant coating and are equipped with positive locks.

NOT FOR USE AS A PERSONNEL SAFETY DEVICE



Tethers personnel or gear.



Nothing like bouncing around or fighting currents when doing tough work underwater. Tether securely and easily with Magswitch Marine Tethers.

Magswitch Industrial Solutions

Magswitch MIS tools bring the power and versatility of the Magswitch technology to the automation world. The advantages provided by this technology offer significant new capabilities and tremendous cost savings in steel fabrication and handling. With unprecedented control and scalability of on off permanent magnets, combined with our patented new switching technique; Manufactures, integrators and engineers are finding clever new solutions every day while generating millions in costs savings using Magswitch Automation Tools.

Each tool in the MIS line is powerful, yet lightweight and compact to fit on end of arm tooling. These tools offer new capabilities in applications where magnets were not previously applied. Common uses of these tools include large-heavy material handling, pick and place, clamping, and ergo lifting. All this is in addition to standard end of arm material handling/gripper applications which are replacing costly vacuum cups and traditional pin clamps that are encumbered with high maintenance and breakage.

The MIS line is made of several ranges of tools offering unique capabilities. No matter the task at hand, Magswitch has a solution. Each range is defined by the optimal use of the tool and is explained further on the subsequent pages. If you handle or fabricate steel using automation, you will find solutions and savings with Magswitch you never knew were possible.

Companies like Chrysler, Ford, Bobcat and Caterpillar are now using Magswitch pneumatic tools in their plants. Six additional automotive companies are in the process of establishing Magswitch for integration. Join these companies and take advantage of the prodded by Magswitch Industrial Solutions.



AR-Series:

Shown here is an AR110 with customized pole shoes to allow the magnet to pick up pipes from an end. Removable pole shoes allowing for extreme versatility and handling on 3 sides including irregular shapes. See page 20 for full description.

MAGSWITCH CUTAWAY – OFF POSITION

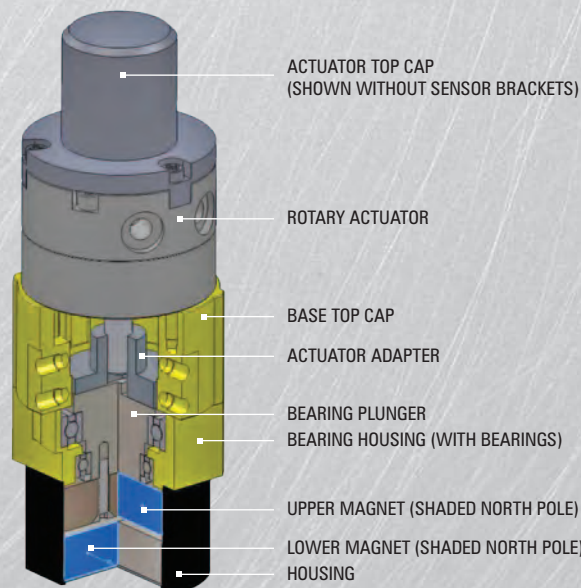


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M-Series



This tool utilizes 3 M4040 magnets to change wheel hub dies in a press. Compact with a powerful deep field to hold strong on flat surfaces.

| Part # | Description | Suggested MAX Safe Working Load | Optimal Material Thickness | Unit Weight |
|---------|--------------|---------------------------------|----------------------------|----------------|
| 8140440 | M15 MDC | 13.8lbs/6.2kg | 11ga/3mm | 0.2lbs/0.1kg |
| 8140485 | M20 HDC | 17.5lbs/8.0kg | 11ga/3mm | 0.4lbs/0.2kg |
| 8140477 | M30 HDC | 34lbs/15.5kg | 10ga/3.5mm | 0.9lbs/0.4kg |
| 8140478 | M4020 HDC HT | 49lbs/22.2kg | 1/4"/6.35mm | 1.8lbs/0.8kg |
| 8140389 | M4040 HDC | 112lbs/50.9kg | 3/8"/9.5mm | 3.1lbs/1.4kg |
| 8140343 | M50 HDC | 150lbs/68.2kg | 1/2"/12.7mm | 4.6lbs/2.1kg |
| 8140170 | M70 HDC | 244lbs/110.9kg | 1/2"/12.7mm | 11.4lbs/5.2kg |
| 8140171 | M110 HDC | 890lbs/404.5kg | 1.5"/38.1mm | 57.6lbs/26.2kg |
| 8140475 | M110 HDC HT | 890lbs/404.5kg | 1.5"/38.1mm | 58.3lbs/26.5kg |

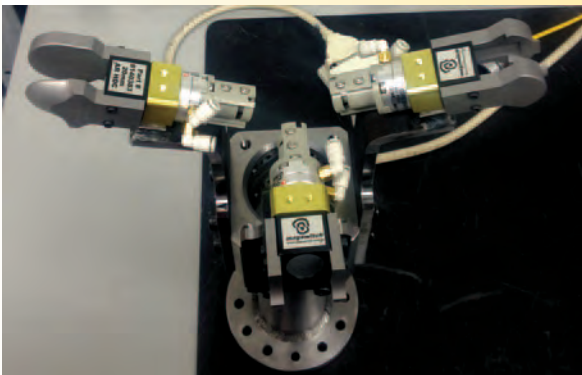
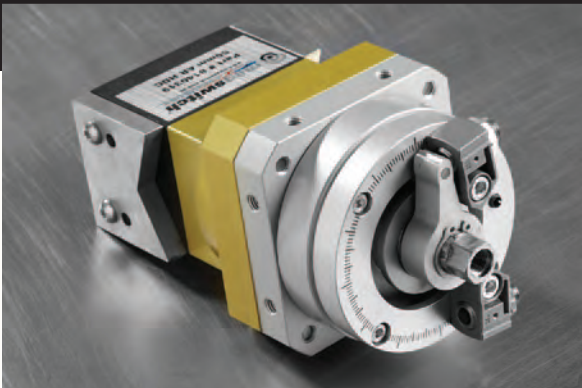
Note: "MDC" = Medium Duty Cycle, "HDC" = High Duty Cycle
 "ME" = Pin Clamp, "HT" = High Torque

The "M" signifies the "M" housing shape. This housing is designed to optimize saturation of the target and is the best choice for maximum lifting strength on flat steel.



Scan link or go to <http://youtu.be/Jqvk30e-DOY>

AR-Series



This rotating robotic end effector utilizes AR tools with custom pole shoes to pick components from a stack of different pieces.

| Part # | Description | Suggested MAX Safe Working Load | Optimal Material Thickness | Unit Weight |
|---------|--------------|---------------------------------|----------------------------|----------------|
| 8140331 | AR15 MDC | 3.75lbs/1.7kg | 12ga/2.7mm | 0.22lbs/0.1kg |
| 8140481 | AR20 HDC | 15.75lbs/7.2kg | 11ga/3mm | 0.4lbs/0.2kg |
| 8140480 | AR30 HDC | 33.5lbs/15.2kg | 10ga/3.5mm | 0.88lbs/0.4kg |
| 8140319 | AR50 HDC | 137lbs/62.1kg | 3/8"/9.5mm | 4.4lbs/2.0kg |
| 8140320 | AR70 HDC | 244lbs/110.7kg | 1/2"/12.7mm | 10.6lbs/4.8kg |
| 8140321 | AR110 HDC | 842lbs/382.7kg | 1.5"/38.1mm | 49.5lbs/22.5kg |
| 8140474 | AR110 HDC HT | 842lbs/382.7kg | 1.5"/38.1mm | 56.8lbs/25.8kg |

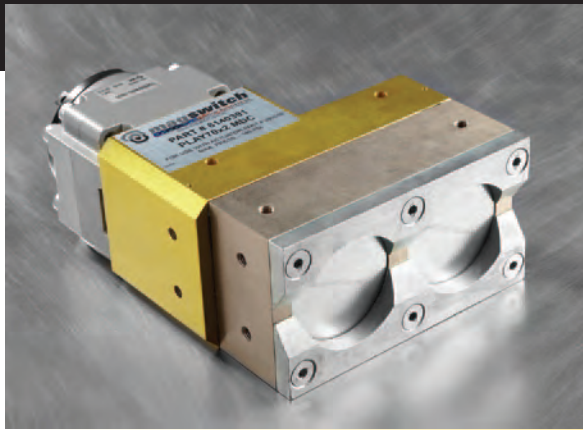
Note: "MDC" = Medium Duty Cycle, "HDC" = High Duty Cycle
 "HT" = High Torque

The "AR" signifies a rectangular housing with removable pole shoes. These tools are designed for irregular shaped surfaces, pipe, cylinders, etc. This tool is the best choice when no flat area exists on the target. With three possible work faces, the tools have tremendous flexibility for multiple end of arm applications.



Scan link or go to <http://youtu.be/bNJKcwRseFk>

LAY-Series



An oil coolant shell and bundle is handled by a PLAY70x2 unit with customized pole shoes. Long and narrow for increased hold on long and round materials with ability to customize poles to match irregular shapes.

| Part # | Description | Suggested MAX Safe Working Load | Optimal Material Thickness | Unit Weight |
|---------|----------------|---------------------------------|----------------------------|----------------|
| 8100387 | E50 900/660 CE | 450lbs/204kg | 1/2"/12.7mm | 18.7lbs/8.5kg |
| 8140405 | PLAY50x2 MDC | 275lbs/136kg | 1/2"/12.7mm | 10.6lbs/4.8kg |
| 8140393 | PLAY50x3 MDC | 413lbs/187 kg | 1/2"/12.7mm | 18.3lbs/8.3kg |
| 8140404 | PLAY50x4 MDC | 572lbs/272kg | 1/2"/12.7mm | 30lbs/13.6kg |
| 8140391 | PLAY70x2 MDC | 530lbs/317kg | 3/4"/19.05mm | 36lbs/16.3kg |
| 8140392 | PLAY70x3 MDC | 719lbs/375kg | 3/4"/19.05mm | 44.8lbs/20.3kg |
| 8140417 | PLAY70x4 MDC | 975lbs/453kg | 3/4"/19.05mm | 53.6lbs/24.3kg |

Note: "MDC" = Medium Duty Cycle, "CE" = Cordless Electric (w/Remote)
 "P" = Pneumatic, "E" = Electric, "M" = Manual

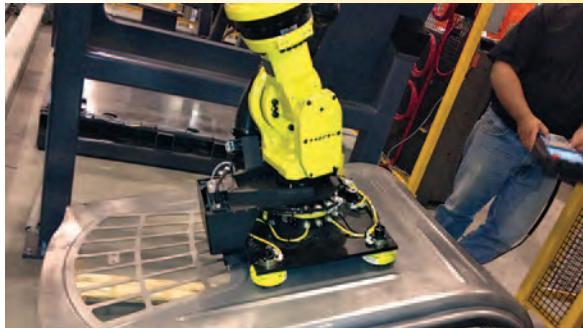
The "LAY" signifies Linear Array; designed for applications where stability and power are important. Multiple magnetic fields ensure strong holding forces on thin material. LAY units are ideal for long cylinders, tubing, and rough surface finishes. Each unit has replaceable pole shoes for improved on-site serviceability.



Scan link or go to <http://youtu.be/WDoLeaYqRfK>

Coming soon:
 PLAY20x4

AY-Series



The roof of a skid steer is moved into position by 5 M15AY tools. Maximum performance on thin sheets and ideal for de-stack operations with a high shear hold capability.

| Part # | Description | Suggested MAX Safe Working Load | Optimal Material Thickness | Unit Weight |
|---------|-------------|---------------------------------|----------------------------|---------------|
| 8140543 | M10AY ASC | 13.25lbs/6.0kg | 20ga/1mm | 1.0lbs/0.45kg |
| 8140550 | M10AY JSC | 13.25lbs/6.0kg | 14ga/1.9mm | 1.0lbs/0.45kg |
| 8140447 | M15AY ASC | 40lbs/18.2kg | 12ga/2.7mm | 1.8lbs/0.8kg |
| 8140332 | M15AY JSC | 47lbs/21.4kg | 9ga/3.8mm | 1.8lbs/0.8kg |
| 8140263 | M30AY ASC | 131lbs/59.4kg | 10ga/3.4mm | 6.4lbs/2.9kg |
| 8140176 | M30AY JSC | 175lbs/79kg | 1/4"/6.35mm | 6.4lbs/2.9kg |

Note: "ASC" = Alternating Star Configuration, "JSC" = Jointed Star Configuration

The "AY" signifies Circular array; a highly technical tool series that allows maximum saturation (performance) on thin material. Array units offer the increased power of multiple Magswitches in a compact, single actuator package. These units are suited to sheet handling on the fly or in shear. This is a revolutionary automation tool that, for the first time, truly challenges suction systems while delivering fast pay back on the initial investment.



Scan link or go to http://youtu.be/nZIX_CwGLXM

Units can be specified for deep field (JSC) or shallow field (ASC) operation.

See page 26 for a description of deep field vs shallow field.

ME-Series (Pin Clamp Alternative)



| Part # | Description | Suggested MAX Safe Working Load | Optimal Material Thickness | Unit Weight |
|---------|---------------------------------------|---------------------------------|----------------------------|--------------|
| 8140479 | ME4020 HDC HT Pin Attachment: Male | 43lbs/19.5kg | 1/4"/6.35mm | 1.8lbs/0.8kg |
| 8140500 | ME3020 Pin Attachment: Female | 23lbs/10.5kg | 10ga/2.5mm | 1.1lbs/0.5kg |

Note: "HDC" = High Duty Cycle, "HT" = High Torque



ME3020 Pin Clamps with pins

Utilizing the strength of the "M" housing and the ability to clamp single skin sheet steel, the Magswitch pin clamp is revolutionizing a difficult application. Over-saturation achieves a unique clamping feature that reduces the need for mechanical clamps in welding jigs and automated fabrication. Pin shape can be customized to fit your application.

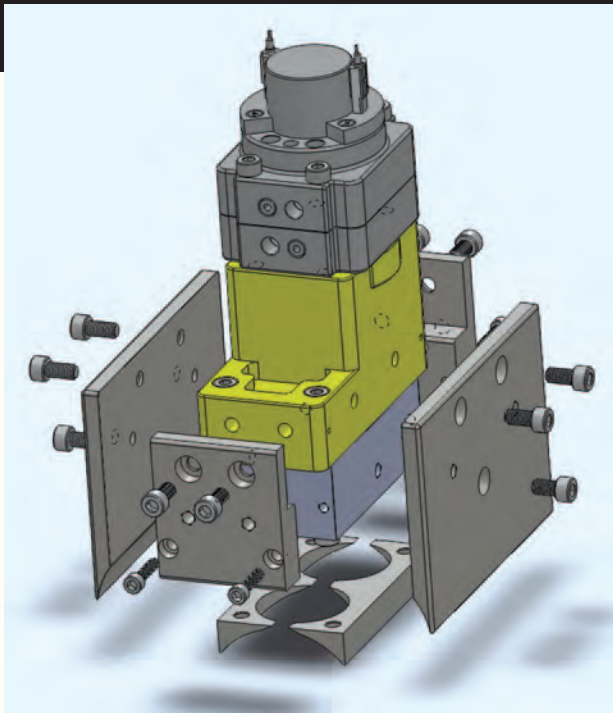
Coming soon:

Smaller 20mm pin clamp and NAAMS mounting solutions.



Scan link or go to http://youtu.be/IRn0mV_t-sE

Custom Design – Machined Components



Magswitch offers custom machined components to help you apply tools in your application.

If a custom pole shoe is required for your application, Magswitch can provide design assistance to facilitate drawing generation. Don't hesitate to run your pole ideas past our engineers. Custom accessory and fixture machining is also offered at competitive rates.

Send your designs to Magswitch for a free quotation.

Magswitch Technology Worldwide
8774 Yates Drive, Suite 140
Westminster, Colorado 80031

Ph: 303-468-0662

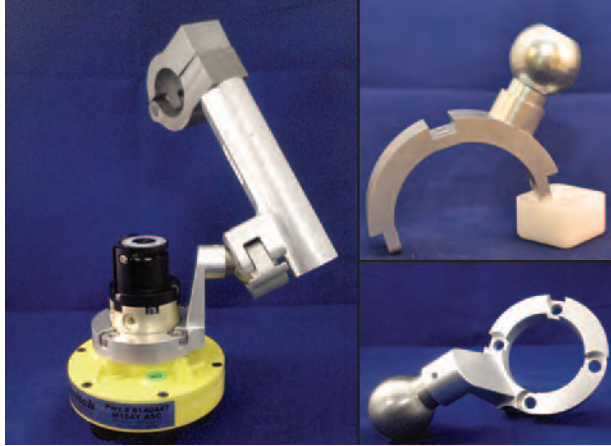
Fax: 303-951-9918

Email: info@magswitch.com.au

Mounting Accessories

Ball Mounts

Ball mounts for M/ME/AR/AY units



Magswitch Part Number

Description: Ball Mounts

| | |
|---------|---------------------------------------|
| 8800102 | M15AY Raised Ball Mount (28.5mm ball) |
| 8800103 | M/AR 15 Ball Mount (28.5mm ball) |
| 8800104 | M/ME/AR 20 Ball Mount (28.5mm ball) |
| 8800105 | M/ME/AR 30 Ball Mount (28.5mm ball) |
| 8800106 | M/ME/AR 40 Ball Mount (28.5mm ball) |

Each ball mount has a 28.5mm steel ball which can mount to many existing EOAT mounting arms, easily replacing existing tools on a fixture such as suction cups.

Vertical Mounts

Vertical Mounts for M/ME/AR/AY units



Magswitch Part Number

Description: Vertical Mounts

| | |
|---------|---------------------------|
| 8800107 | M15AY Vertical Mount |
| 8800108 | M/AR 15 Vertical Mount |
| 8800109 | M/ME/AR 20 Vertical Mount |
| 8800110 | M/ME/AR 30 Vertical Mount |
| 8800112 | M/ME/AR 40 Vertical Mount |
| 8800121 | Spring Compensator |

Vertical mounts include a thread adapter from M10x1.5 to G3/8 pipe thread. This may be used to easily replace suction systems currently in use, or can be removed and directly mounted via the M10 threaded hole.

Pole Shoes

Stock replacement shoes for AR and LAY units



Magswitch Part Number

Description: Replacement Pole Shoes and Fasteners for AR and LAY units

| | |
|---------|-------------------------------------|
| 8800068 | AR15 Combo Flat/Pipe Pole Shoe Std |
| 8800069 | AR20 Combo Flat/Pipe Pole Shoe Std |
| 8800070 | AR30 Combo Flat/Pipe Pole Shoe Std |
| 8800071 | AR50 Combo Flat/Pipe Pole Shoe Std |
| 8800072 | AR70 Combo Flat/Pipe Pole Shoe Std |
| 8800073 | AR110 Combo Flat/Pipe Pole Shoe Std |
| 8800074 | LAY50x2 Std Pole Shoe |
| 8800075 | LAY50x3 Std Pole Shoe |
| 8800076 | LAY50x4 Std Pole Shoe |
| 8800077 | LAY70x2 Std Pole Shoe |
| 8800078 | LAY70x3 Std Pole Shoe |
| 8800079 | LAY70x4 Std Pole Shoe |
| 8800080 | LAY70x6 Std Pole Shoe |

These shoes are stock replacements for the Magswitch AR and LAY tools. For custom shoes, please inquire with your distributor or direct to Magswitch.

Even More Accessories and Custom Accessories Coming Soon. Class A Surface Protection, Custom Pole Design, Custom Pin Design and Custom Guarding (MagArmor).

Sensors

Magswitch tools accept sensors for actuation detection, improving reliability and safety of your automated systems. The table below lists the sensor kits available for each product.

Lead wire length symbols = nil L Z
 Length of wire = .5m 3m 5m
 Example: D-M9PWL for 3 meter wire.

With pre wired connectors symbol = S M L
 Length of wire = .5m 1m 3m
 Type of connector symbol = A B D
 M8-3pin M8-4pin m12-4pin

Example: D-M9PWSAPC (PC is a default) for a .5m wire with a M8-3pin pre wired connector

Sensor Table:

| Applicable Size | Type | Electrical Entry | Indicator Light | Wiring (Output) | Load Voltage DC | Auto Switch Model Number | Lead Wire Length | | |
|------------------------------|-------------|------------------|-----------------|--------------------------|-----------------|------------------------------------|------------------|--------|----------|
| | | | | | | | 0.5 | 3 | 5 |
| AR/M/ME/AY 10,15,20,30,40 | Solid State | Grommet | Yes | 3-Wire PNP 3-Wire NPN | 24,12, 5 | D-M9PW D-M9NW | Y Y | Y Y | NA NA |
| AR & M 50,70,110,200 | Solid State | Grommet | Yes (2 Color) | 3-Wire PNP 3-Wire NPN | 24,12, 5 | D-M9PW* D-M9NW* | Y | Y | NA |
| AY 30 / LAY 50, 70 | Solid State | Grommet | Yes | 3-Wire PNP 3-Wire NPN | 24,12, 5 | D-S7P1 & D-S7P2 D-S791 & D-S792 | Y | Y | NA |

*Requires bracket
 # SL-DSM-B

Super Heavy Lifters

Featuring wireless controls and cordless, hook-and-go units with capacity up to 20,000 Lbs - 9090 kg. Max Safe Load (3:1 ASME)

For designed solutions, contact: info@magswitch.com.au

Custom Applications/Machining

Magswitch provides support for designers looking to solve their challenging problems with the Magswitch Solution. Ask your knowledgeable sales representative for advice on fixture, pole shoe, guarding, and multiple magnet designs.

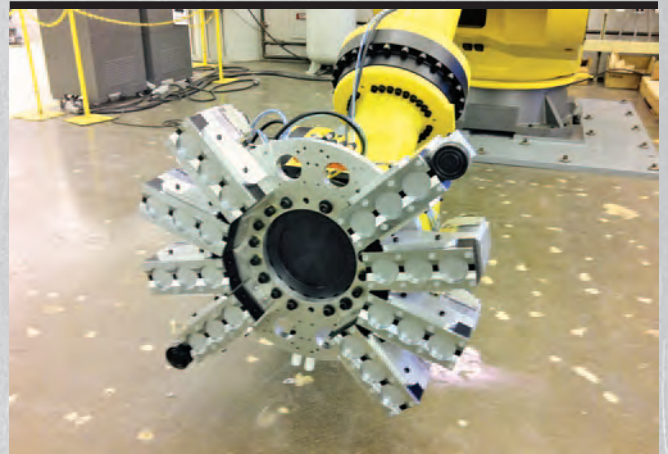
Many of the components you need to expand the usability of the Magswitch to fit your individual application can be fabricated by Magswitch for a fraction of the cost of a machine shop. Simply provide the drawing and request a quote.

No two projects are ever the same. So give your application the attention it deserves. Magswitch prides itself on having one of the most knowledgeable distribution networks and a team of engineers to handle any application presented. It is highly recommended that you contact your local distributor for application assistance on every project. There are many factors which determine the performance of a magnet and all should be accounted for before selecting your tool.



To help our team quickly and efficiently determine a solution, please take the time to fill out an inquiry form that can be found on the web at: <http://tinyurl.com/av345o6>

Once you have completed the form, please send it to your local distributor contact located on the back of this catalog, or send it to: misinfona@magswitch.com.au for North American contacts, and misinfogl@magswitch.com.au for all other countries.



Magswitch's class of super heavy lifters are available in linear and circular arrays. Available in pneumatic actuation and capable of lifting tens of tons.



Scan link or go to <http://youtu.be/H80LH1vWpwU>

Shallow Field Vs Deep Field



M15AY ASC and JSC Field Line Comparison

Magswitch Field Depth

Magswitch Technology’s product line offers two distinct magnetic field configurations, Deep or Shallow. Field depth is an important consideration when selecting a magnet for your application. Field depth is controlled by magnet size and multiple magnet configurations, proprietary features of Magswitch Technology. The thickness of ferrous material needed to absorb all magnetic flux from the magnet determines field depth. Insufficient thickness will cause oversaturation, which reduces the strength of the magnet when lifting the target. Oversaturation will also provide a strong magnetic field in the air below the target material. This may result in the gripper trying to lift or attach any adjoining component to the target material. When assessing saturation, any surface blemish, paint, rust, or irregularity will create an “air gap”. Where an air gap exists, a magnet with a deeper Field will perform better. All Magswitch tools show the optimum field depth to aide in selecting the correct gripper for your application. As always, be sure to thoroughly test all applications and when possible consult your distributor or Magswitch representative directly.

Deep Field

Deep field units will work best on thicker materials and material that has an air gap such as uneven or rough surface, dirt, rust, debris, paint, or any other surface imperfection which prevents the magnet from making full contact with ferrous steel. Deep field magnets can achieve full saturation on imperfect targets where shallow field cannot.

Shallow Field

Shallow field units will work best on thinner materials. Smaller magnets and interacting magnetic arrays create a shallow field that achieves full saturation on thin workpieces. These units are optimal for sheet metal and stamped parts that have a flat picking surface large enough for the entire unit. Shallow field allows accurate de-stacking of thin material.

Due to the scalability of the technology, shallow field configurations may be specified on any thickness material to optimize your cost/performance ratio.

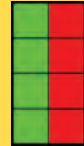
Field Depth by Size:

The number in similar unit descriptions will indicate field depth. Larger number=Deeper field. E.g. M110>M70>M50

Field Depth by Magnet Configuration:

Deep Field = (N-S) (S-N) (N-S) Jointed Star

Common poles should face each other. This is the case with our LAY and AY JSC series. Read the operation and design guidelines for more information on proper pole alignment and connectivity.



Shallow Field = (N-S) (N-S) (N-S) Alternating Star

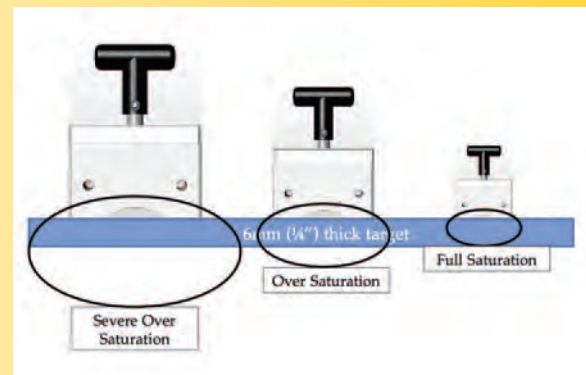
Alternating Star

Dissimilar poles should face each other. This is the case with our AY ASC series which is specifically designed to hold better on thinner sheets. Field Depth is represented in the charts for each series by the Optimal Material Thickness Column.

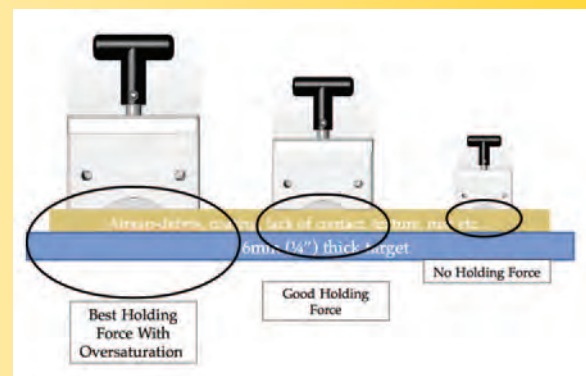


Field Depth (6mm (1/4”) thick target)

Factors include total height and diameter of the housing (magnets). Housing shape is a lesser factor as well.



Airgap Performance (6mm (1/4”) thick target)



See this principle demonstrated here!

Scan link or go to <http://youtu.be/gLEEu0jFL3w>

SHIPBUILDING TOOLS

Changing The Way Ships Are Built.



Join the fast growing list of major shipbuilders who are using Magswitch.

Benefits:

- » Faster fit ups
- » Creative new applications
- » Safer material handling



New tools that solve old issues.



Why Magswitch for shipbuilders?

If you are buying and fabricating steel only to be consumed in the fit up process, you likely won't have to do that anymore. The time you spend welding temporary supports, just to break them and grind them off, and then inspect the metal, well that time can be substantially eliminated in large and small applications.

We all know that time is money and that delays at the back end of shipbuilding are inevitable. We are dedicated to helping you cut time on the front end.

Let us show you how.



Shipbuilders are realizing the benefits of these tools:



Stiffener Alignment Tool Accessory
Part # 8100554

Requires: MLAY1000x2 Magswitch.



Heavy Sheet Leveler Accessory
Part # 8100540

Requires: MLAY1000x3, MLAY1000x4 or MLAY1000x6 Magswitches.



Beam Press Accessory
Part # 8100553

Requires: MLAY1000x4 or MLAY1000x6 Magswitches.



Stiff Jack

(6,000 lbs/2,700kg holding force; steel frame)

Requires: Two MLAY 1000x3 Magswitches.

Also see these tools in this catalog:

90 Degree Angle 1000

See page 7

Sheet Aligning and Handling Tools

See page 9

Multi Angle MagVise

See page 4

Hand Lifter 60-CE (Cordless Electric)

See page 8

Heavy Lifting Magnets

See page 15

Magsquares

See page 5

For technical and training information, visit:
<http://tinyurl.com/arbnt2d>

Magswitch Infrastructure Tools for Utility Companies and Cities

Magnetic Manhole Dolly and Valve Box Lifter.

In world of back-breaking hard work filled with Workman's Comp claims for back and finger injuries, Magswitch provides an affordable alternative that makes handling manhole covers easy and safer for your employees. A simple lightweight system utilizing a dolly and strong Magswitch magnet enables fast setup and quick removal of manhole and utility covers. When considering the cost of claims, cities can easily reduce these costs with the Magswitch system and provide a safer work environment for their employees.

With employees removing several valve boxes everyday, the Magswitch Valve Box Lifter provides unprecedented convenience and safety in removing the cover. No need to get down on your knees and pinch your fingers. Simply position the magnet over the valve lid and turn on with extended handle and remove.



The Magswitch Magnetic Manhole Lifter can radically reduce the chance of injury by lifting covers, the #1 workers comp claim. Plus, Insurance companies might offer discount rates to your customers, or help them with the purchase price, because it creates a safer work environment for employees!



No need to get down on your knees and eliminates pinching your fingers.



Magnetic Manhole Lifter Dolly



| Specs | Mag Dolly | MLAY1000x3 Lifting Magnet | MLAY1000x4 Lifting Magnet |
|-------------------------------------|-----------|---------------------------|---------------------------|
| Part # | 8100433 | 8100403 | 8100418 |
| Lift capacity on cast iron (lbs/kg) | NA | 300/135 | 400/180 |
| H= (in/mm) | 36.1/917 | 10.0/254 | 10.0/254 |
| W= (in/mm) | 13.5/343 | 10.2/259 | 10.2/259 |
| D= (in/mm) | 71.9/1826 | 10.7/272 | 13.8/350 |
| Wt=(lbs/kg) | 20.8/9.4 | 35.7/16.2 | 44.6/20.2 |



Scan link or go to <http://youtu.be/X7S2nETEm7I>

The Manhole Lifter Dolly can be used with either the MLAY1000x3 or MLAY1000x4 depending on the size of the manhole cover. For cast iron manhole covers, the MLAY1000x3 is ideal for covers that weigh up to 400 lbs. Anything heavier than 400 lbs., the MLAY1000x4 is recommended.

Magnetic Valve Box Lifter



| Specs | Extenda-Lift 600 | Extenda-Lift 1000 |
|-------------------------------------|------------------|-------------------|
| Part # | 8100025 | 8130177 |
| Lift capacity on cast iron (lbs/kg) | 100/45 | 140/65 |
| H= (in/mm) | 28.2/724 | 28.5/730 |
| W= (in/mm) | 2.7/68 | 4.2/107 |
| D= (in/mm) | 4.6/117 | 4.8/122 |
| Wt=(lbs/kg) | 5.3/2.4 | 9.8/4.4 |



Scan link or go to <http://youtu.be/YLhy1Px03Q>

Note that the Extenda-Lift 600 has a breakaway force of 600 lbs. on solid steel and 1000 lbs. for the Valvebox Lifter 1000. The lift capacity ratings are significantly reduced due to the porous cast iron material.

Magswitch Partners



Bug-O Systems
www.bug-o.com

280 Technology Drive Southpointe
Industrial Park Canonsburg, PA 15317
Phone: 412-331-1776

Bug-O Welding Track Lighter, stronger, cleaner.

Bug-O has capitalized on Magswitch technology to revolutionize the ease of use in automated welding set ups. Magnets that were once heavy, always dirty, and that had to be adjusted into position with the help of a hammer was the industry standard in automated track welding. Bug-O and Magswitch have changed this forever. Lighter yet stronger, Magswitch is making set ups simple and easy. Better yet, you will never waste time cleaning debris off magnets again. Magswitch has a range of mounting tools in our fixturing section of this catalog.



Bug-O MagWheel

Bug-O is using Magswitch MagWheel technology to make small diameter pipe welding easier. MagWheel technology from Magswitch utilizes the same principles of the core technology—each wheel is a permanent magnetic pole with both making the circuit, and the MagWheel is manually turned on and off. Lightweight, strong and they stay clean. MagWheel has many uses yet to be discovered in fabrication. Applications can range from automated welding, to sheet in feed or out feed, vibration stabilization, rating cylinders or pipe, or carrying equipment that inspects, cleans, grinds, welds, etc.



SOLO Magnetix

8045 Coronet Road N.W.
Edmonton, Alberta, T6E 4N7 Canada
Phone: +1 780-756-0575

MagYoke

The Magswitch MagYoke is a revolutionary patented ON-OFF switchable permanent magnetic Yoke which gives the user the ability to perform magnetic particle inspection without an electrical power source. It has all the advantage of a permanent Yoke system without the problems related to adhesion of metal particles. One turn of the actuation switch completely neutralizes the permanent magnet field allowing the users to remove the tool from the ferromagnetic material and clean the yoke with ease.

The MagYoke's magnetic field can be "turned on" after the pole legs have been placed on the metal to be tested, reducing the chance of a spark created by metal to metal contact.

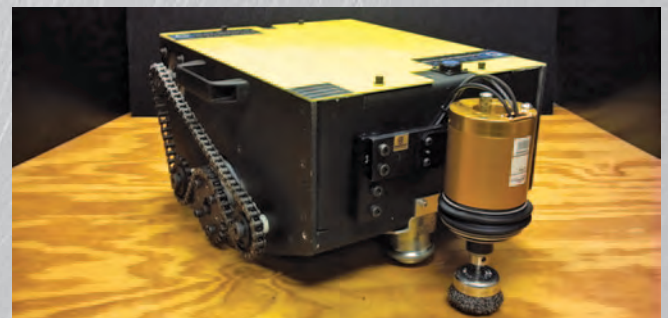


Branik Consulting
www.branik.net

958 West Lake Street
Roselle, IL 60172
Phone: 630-893-1314

Prowler

The Prowler by Branik, is a device that features Magswitch MagWheel technology. The Prowler is a breakthrough in capability. It utilizes MagWheel to carry a payload vertically and inverted. It travels using the strength of MagWheel. It is controllable via direct or remote controlled power. The prowler brings important new capabilities in the area of mobile work in difficult areas, remote controlled inspection cleaning, monitoring and welding. The possibilities are substantial offering easier safer ways to get work done in difficult to reach areas.



For technical and training information, visit:
<http://tinyurl.com/arbnt2d>

WOODWORKING TOOLS

The Magswitch Workholding System

All your table top workholding needs in one complete system.

A workholding system built around Magswitch on/off magnetic clamps providing strong, precise placement anywhere on any steel table. Our award winning technology is a breakthrough for fast, easy, strong workholding on any steel table or fence. The system accommodates your workholding needs on all your power tool tables including table saws, joiners, planers, band saws and shapers.



Starter Kit

It all starts here.

Add attachments for more versatility. Kit contains: Two 150 lb. grip Mag Jigs, Universal Base and Reversible Featherboard Attachment.

- » Fast easy set up
- » Precise tensioning
- » Anywhere on table



Vertical Featherboard Attachment



- » Safety award winner. Mitigate kickback.
- » Absolute must buy with Starter Kit.
- » Dual plane workholding.
- » Stack horizontal for tall panels.



Resaw Guide Attachment

- » Adjustable roller bearing for glide.
- » Angled in-feed/out-feed for blade drift.
- » Micro adjust to exact 90°.
- » Use on band saw or out-feed on table saw.



Dual Roller Attachment

- » Ideal for tall panel feed.
- » Glide rollers - yet strong firm hold.
- » Adjustable roller bearings.
- » Great for hold on out-feed as well.



Thin Stock Hold Down Attachment



- » Three tools in one.
- » Thin stock hold near blade.
- » Clean cuts with strong hold near blade.
- » Cut thin strips with roller guide.



18" & 36" Universal Track Attachment

- » Instant wall anywhere you need it.
- » Accepts standard hardware.
- » Accepts all standard T-bolts, 1/4" hex, 5/16" hex, and Kreg[®] clamps.

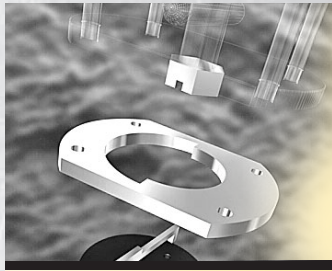


Add Extra Bases or MagJigs

- » Use the MagJigs in your own fixtures.

"Magswitch is one of the most significant breakthroughs this decade"

– British Woodworking Magazine



Magswitch Technology

Magswitch is a mechanical device that turns a very powerful magnetic field on and off with a simple 180° turn of a knob. No electricity needed. Simple phase alignment of two magnetic discs in a steel housing. This breakthrough is patented world wide and is used many industries. The days of fighting magnets are forever over. For woodworkers, your hobby just became easier and faster – and a whole lot safer!



Magswitch Workholding System Order Guide

| Item | Part Number | Sugg. Retail |
|---|-------------|--------------|
| Starter Kit (Base, 2 MagJig 150's, Reversible Featherboard) | 8110134 | \$74.99 |
| *Vertical Featherboard Attachment | 8110178 | \$16.99 |
| *Resaw Guide | 8110125 | \$22.99 |
| *Dual Roller Guide | 8110130 | \$24.99 |
| *Ultimate Thin Stock Jig / Rip Guide | 8110362 | \$19.99 |
| *18" Universal Track Wall | 8110132 | \$29.99 |
| *36" Universal Track Wall | 8110370 | \$59.99 |
| Mounting Base | 8110112 | \$18.99 |



* Must have Starter Kit or Mounting Base and two MagJigs to mount the attachment to.

Individual Featherboards

Featuring the benefits of Magswitch technology. The Universal, Pro Table and Pro Fence Featherboards are available to meet your specific needs. Pro Table Featherboard accommodates the Vertical Featherboard Attachment (Part #8110178)

| Item | Part Number | Sugg. Retail |
|---|-------------|--------------|
| Universal Featherboard (two 95 lb. grip Magswitches) | 8110015 | \$44.95 |
| Pro Table Featherboard (two 150 lb. grip Magswitches) | 8110328 | \$59.99 |
| Pro Fence Featherboard (two 150 lb. grip Magswitches) | 8110329 | \$59.99 |



Universal

Pro Table

Pro Fence

MagJig – On/Off Magnetic Clamp

Magswitch MagJigs are the ultimate workholding clamp. Nothing else like it – ever! Incredible hold force in a simple 180° turn! Unmatched speed, strength and precision in clamping. Magswitch MagJig magnetic clamps have revolutionized table top workholding. Use anywhere on a steel table. Simply drill holes into your 3/4" boards and use as many MagJigs as you like, depending on the hold force you require. Easily move from fixture to fixture.

| Item | Part Number | Sugg. Retail |
|------------------------------------|-------------|--------------|
| MagJig 95 | 8110004 | \$24.99 |
| MagJig 150 | 8110005 | \$34.99 |
| MagJig 235 | 8100377 | \$89.00 |
| 30mm Forstner Bit (For MagJig 95) | 180098 | \$6.99 |
| 40mm Forstner Bit (For MagJig 150) | 180099 | \$8.99 |



See demo on
Workholding System.

Scan link or go to <http://youtu.be/N13HkxyRsZc>



Every Magswitch product is proudly designed, tested, manufactured and distributed by the Magswitch group of companies.

All Magswitch products are manufactured to ISO 9001:2008 standards.

Proudly distributed by:



Magswitch Technology Worldwide
8774 Yates Drive, Suite 140
Westminster, Colorado 80031
Ph: 303-468-0662
Fax: 303-951-9918

For more information contact
your local distributor or
info@magswitch.com.au



Why are Magswitch colors yellow?

In 2005, Magswitch decided to support a junior cycling team. With safety in mind, team jerseys were made yellow to make sure the riders can be easily seen on the roads. In 2007, when Magswitch created its image and colors for our tools, yellow was again the obvious choice given our commitment to safety with our tools all over the world. In this catalog, we launch our new safety logo and we do so in the spirit of our commitment to making your workplace safe.