



magswitch

Section

Eight

Hand Lifters &
Sheet Draggers

8

8

8

8

8

8

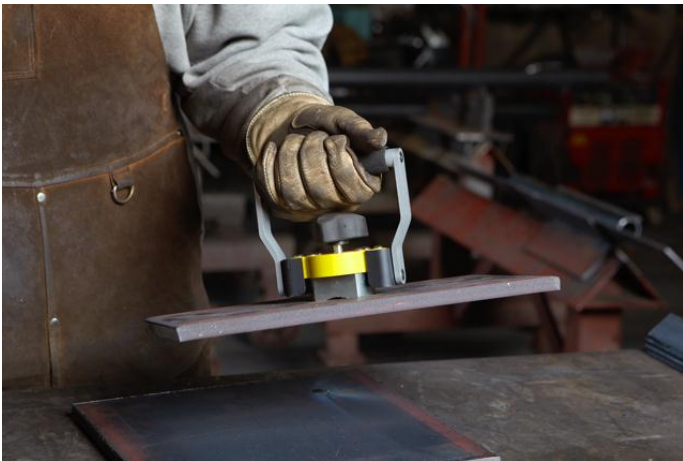
8

Hand Lifter 60-M

Magswitch Part Number 8100359

Perfect For All Burn Tables, Metal Handling And Sheet Dragging!

- Fast, Easy And Safe Handling Of Sharp, Hot Steel
 - Safe Working Load Of Up To 60 Lbs (27 Kg)
 - Pipe Notch For Use On Pipe/Tube Stock
 - Saves Injuries To Hand And Fingers
 - Faster Work With Fewer Injuries
- Handle Pivots For Use As A Sheet/Plate Drag

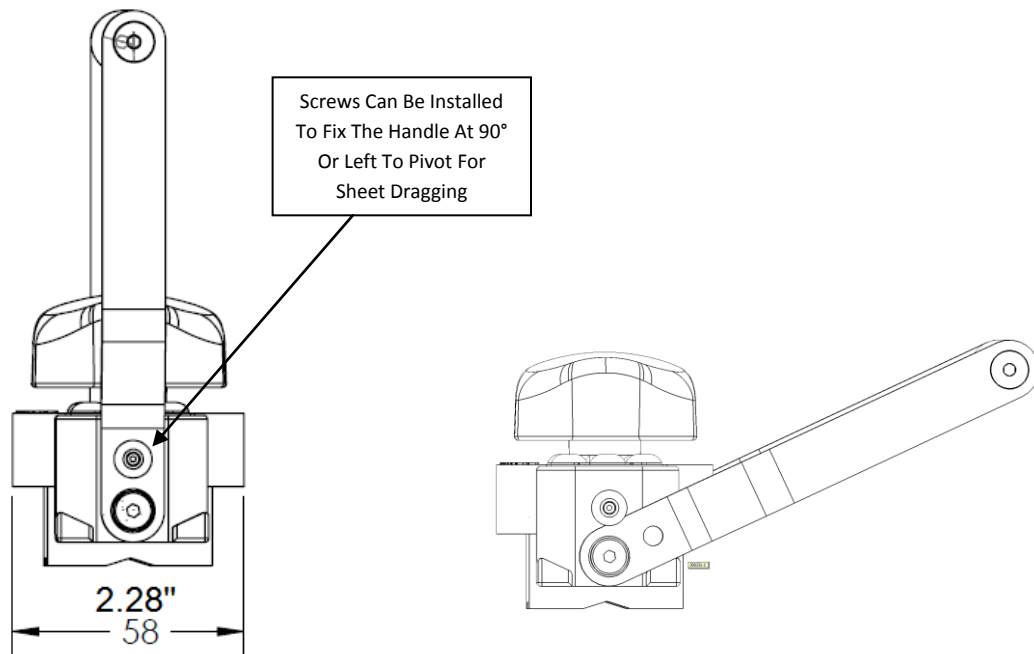


- Quick And Easy Lifting And Dragging Of Steel Parts
 - ½ Turn Of The Knob Turns Magnet On/Off
 - Easily Positioned On Flat Or Round Stock
- Turns Completely Off For Removal And Cleaning
 - No Batteries, No Electricity Required!
 - Item Weight .6 Lbs (.27 Kg)

Includes

1-Hand Lifter 60-M

2-Screws For Securing The Handle At 90°

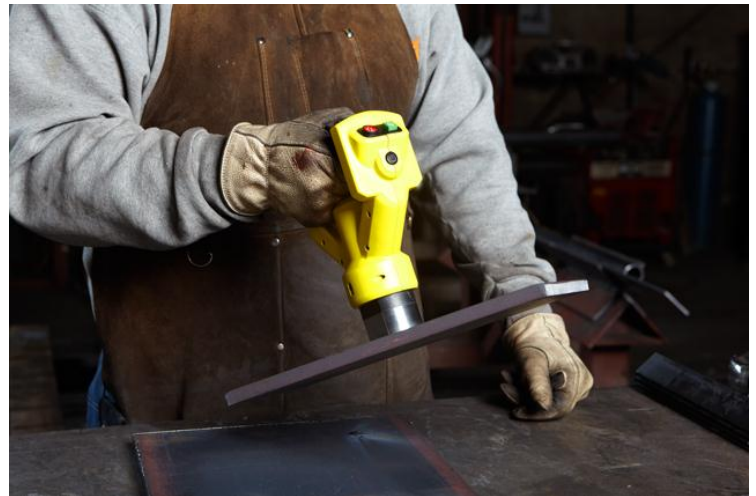


Hand Lifter 60-CE

Magswitch Part Number 8100385

Perfect For All Burn Tables And Metal Handling!

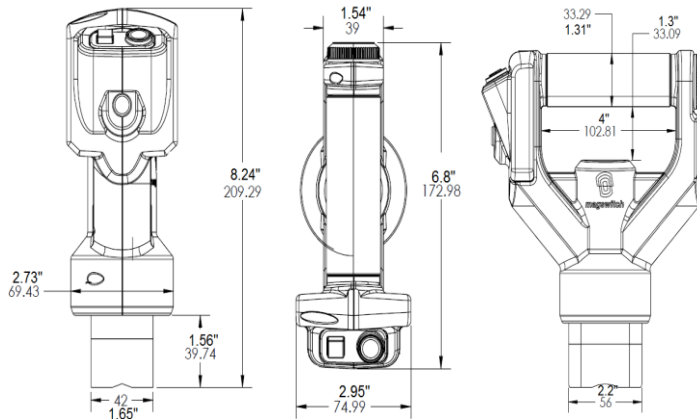
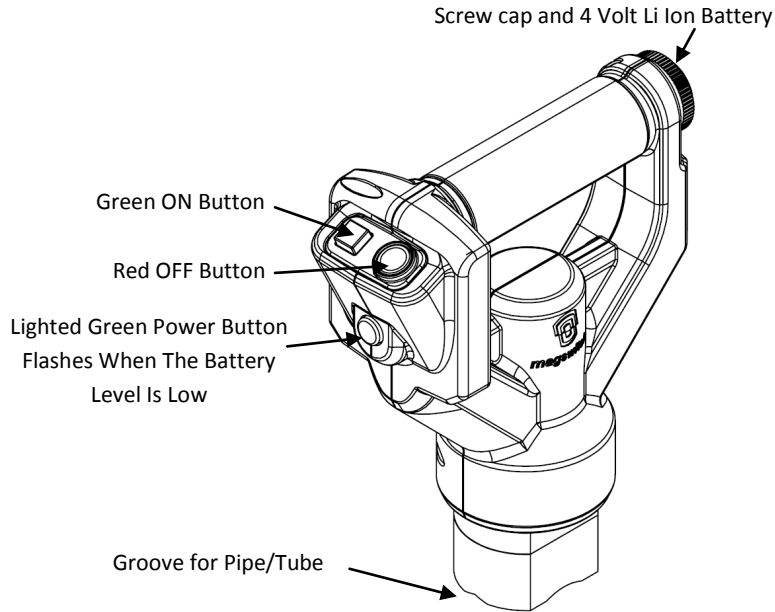
- Push Button, Battery Powered Operation For Easy Use
 - Fast, Easy And Safe Handling Of Sharp, Hot Steel
 - Safe Working Load Of Up To 60 Lbs (27 kg)
 - Pipe Notch For Use On Pipe/Tube Stock
 - Saves Injuries To Hand And Fingers
 - Faster Work With Fewer Injuries
 - 100% Duty Cycle!



- Quick And Easy Lifting Of Steel Parts
- Easy Access Push Buttons Turns Magnet On/Off
 - Easily Positioned On Flat Or Round Stock
- Turns Completely Off For Removal And Cleaning
- Requires 4 Volt Battery And Charger (Included)
 - Item Weight 2Lbs (.9 Kg)

Includes

1-Hand Lifter 60-CE, 2-4V Batteries, 1-3 Hour Charger



Extend-A-Lift 60

Magswitch Part Number 8100025

Perfect For Stacking, Destacking, And Cleanup

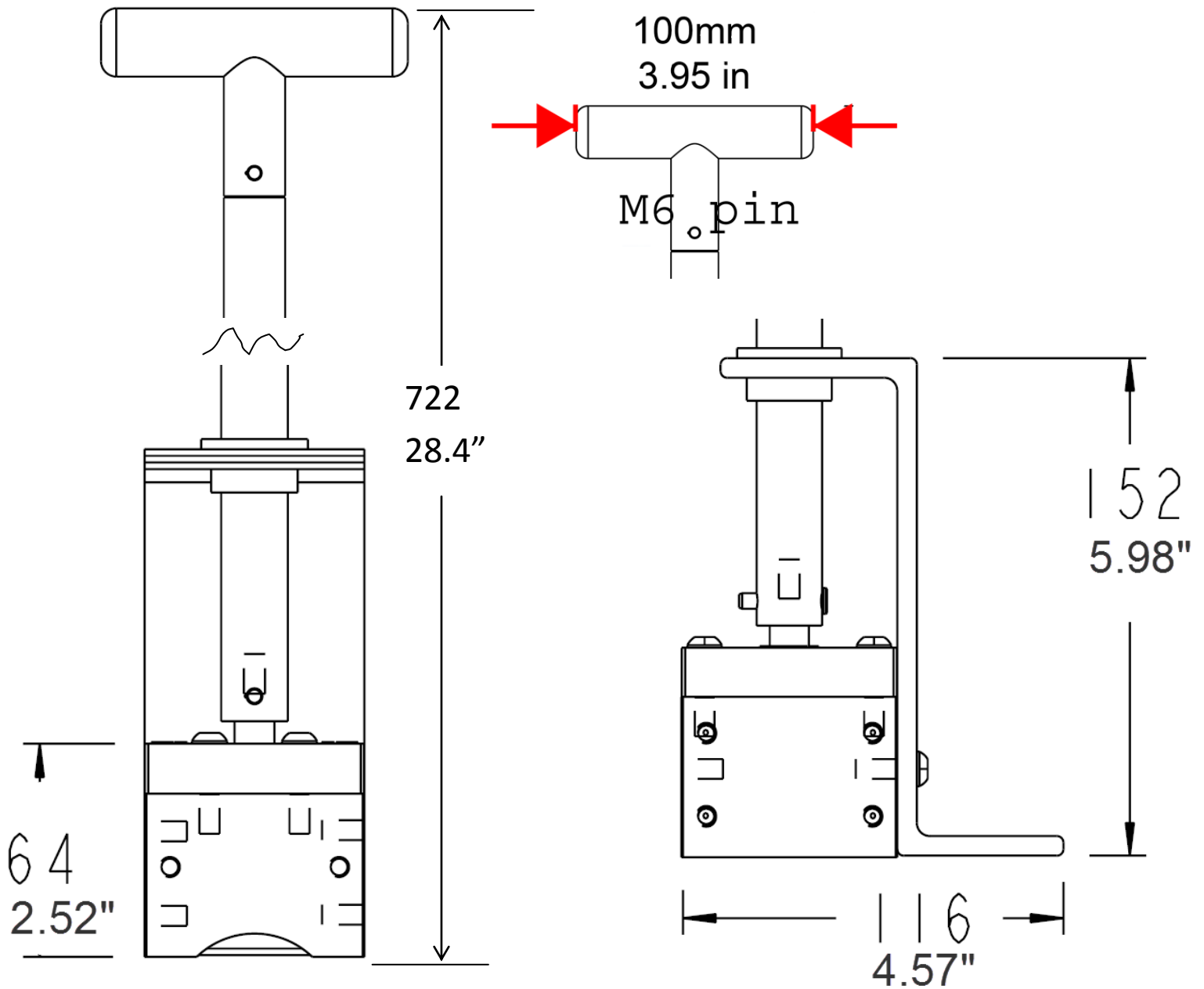
Handle Sharp, Heavy Steel Plate And Pipe With Ease



- Lifts And Holds Up To 60 Lbs (31.7 kg)
- 28 7/16" (72 cm) Tall For Less Bending And Back Injuries
- Foot Plate Makes Activating The Magnet Easier-Step And Turn
 - ½ Turn Of The Knob Turns The Magnet On/Off
 - Handle Locks In On Position For Secure Hold
 - Push Down And Turn Counterclockwise To Turn Off
 - Turns Completely Off For Removal And Cleaning
 - When Off, Debris Falls Easily Away,
- Wipe Off Remaining Dust And You Are Ready For Reuse
 - No Batteries, No Electricity Required!
 - Item Weight 5 Lb 7 Oz (2.47 Kg)

Includes

1-Magswitch Extend-A-Lift 60 with handle and footplate installed





Hand Lifter 60-M

Operation and

Magswitch Technology Inc.

8774 Yates Drive #140

This Magswitch Hand Lifter 60-M Is Designed To Lift Steel Plate, Pipe, Bar And Rod Stock, Flat Stock Or Angle Iron. For Safety, This Device Is Rated For Loads **UP TO 60 Lbs (27 kg)** Utilizing A Pivoting Handle, It Is Ideal For Dragging Sheet And Plate As Well. Using Patented Technology, This Device Has Tremendous Holding Power As Well As A Great Amount Of Shear Force Holding Strength To Prevent Sideways Movement.

Read All Instructions! Failure To Follow All Instructions Listed Below May Result In An Unsafe Or Dangerous Condition.

General Information

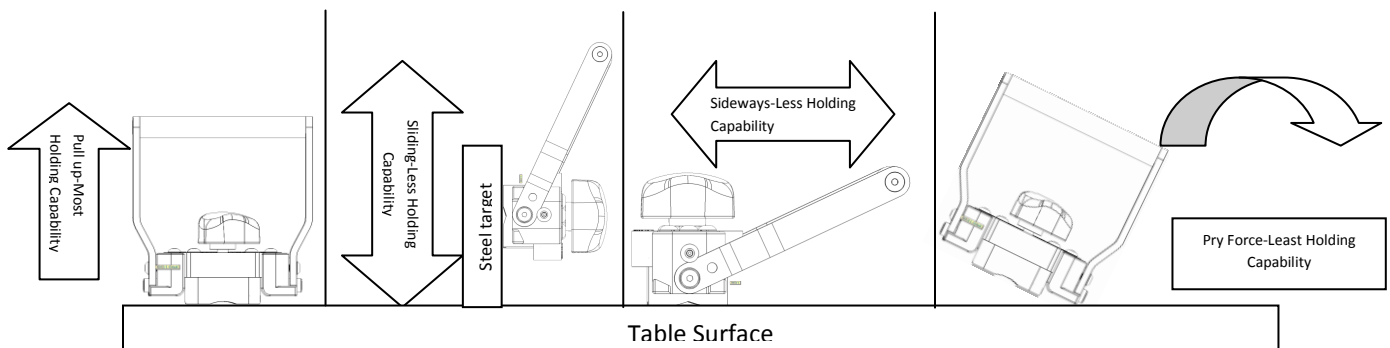
- All Magnets need to be *kept at a safe distance* from all Magnetic storage devices, electronics and credit cards etc...
- Ensure that the Magswitch Magnet is *stored in the "off" position* when not in contact with Ferromagnetic metals.
- **Never use a Magswitch Hand Lifter for OVERHEAD LIFTING!**
- **DO NOT attempt to disassemble** the Magswitch Magnets; there are no user serviceable parts inside the device.
- All Magswitch products are *designed for normal work/jobsite conditions*, do not use underwater or in a hazardous environment
- **DO NOT use the Magswitch Hand Lifter if it is damaged or is not working properly.** Severe injury can occur if this device is not used properly and safely.
- **DO NOT expose the Magswitch Magnets to temperatures above 180deg. Fahrenheit (80 Celsius).** High temperatures will permanently degrade the Magnet's effectiveness and may result in an unsafe condition.
- **Not recommended for painted or finish coated surfaces** as these will reduce the magnetic bond and the finish may be damaged.
- **This product contains PTFE lubricant.** For MSDS information contact Magswitch.

To Use The Hand Lifter 60

- Always **test the connection** before attempting to use the Magswitch Hand Lifter to ensure that it is capable of holding the material securely.
- **Numerous factors can negatively affect the strength** of the magnetic bond. Dirt, debris, oils and grease, painted surfaces and any gap between the Magnets and the metal surface will decrease the bond. **Ensure that the metal is clean** and free of these factors.
- **Thicker metals will be held more strongly than thinner metals.** E.g.: 1/4" (6mm) steel will be held more strongly than thin gauge metals.
- **Never exceed the rated capacity** of the device or attempt to alter the device in any way. Each Magnet has up to 60lbs(27 kg) of Safe Working Load (SWL) under ideal conditions. Tested in accordance with Magnet Distributors and Fabricators Association testing methods and represents a straight Break-Away pull. Actual in-use results will vary greatly and **user must test every bond to determine the suitability of the magnet** to hold the material.
- **Avoid sudden jerking or Shock force** as this will cause the Magnets to lose its hold.
- **This Hand Lifter 60 is not designed to be used as a welding ground clamp** or as part of an electrical circuit.
- For safe operation, the **bottom surface of the Magnet must always be Flat and Smooth.** If necessary, it is possible to sand the Magnet face smooth using 400 grit sandpaper and a flat surface. **Always file any burrs** that would interfere with full contact.

Hand Lifter 60 Operation

- **The Knob on the magnet of this Magswitch Hand Lifter must be turned clockwise 180 degrees until it locks into place** in order to be turned on.
- **DO NOT turn on unless in contact with metal!**
- **Never attempt to lift a piece of steel unless the knob is in the locked position**
- **To release the Magnet push down and turn the handles in the counter clockwise direction until it stops.** The Magnet will **turn off and release immediately** upon turning the handle, Use Caution to ensure that it is safe to release the Magnet and that nothing will fall or become dangerous.
- This Magswitch Hand Lifter 60 is capable of **exceptional Break-Away force** holding power; Magswitch Magnets are exceptionally strong in **Shear Force** as well. **Prying force is the least powerful** of the holding capabilities and great care must be used when attempting to use this device with Pry force. **See Illustrations below.**



Magswitch Limited Warranty

Magswitch products are covered by a One Year Limited Warranty on Material and Workmanship. Warranty is Non-Transferable. Magswitch reserves the right to inspect all product claims under warranty. Any alteration of the device voids this warranty.

User assumes all risk for the proper use of this device and for ensuring product suitability for intended application. This warranty shall not cover any incidental or consequential damages due to the improper use or failure of this device.

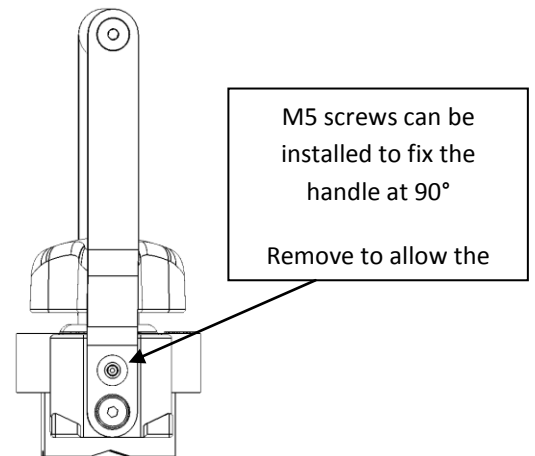
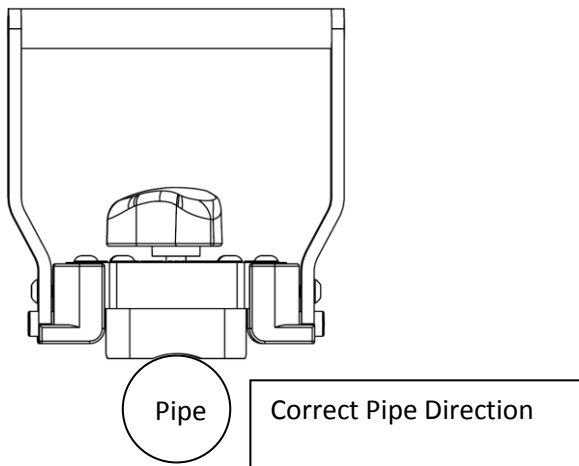
All Magswitch products are intended for the use identified on the package - not intended for resale or integration into products for resale. Contact Magswitch for inquiries on integration of technology. Australian Patent: 753496, Chinese Patent: 254155, New Zealand Patent: 518865, Singapore Patents: 88931; 103413, South Africa Patents: 2002/3752; 2004/1785, US Patents: 6,707,360; 7,012,495. Additional Patents and Patent Applications Pending.

Part Number 110139_3

Revision Date, February 28, 2011

Hand Lifter 60-M Usage Manual

- This Hand Lifter 60-M is designed to lift ferrous steel pieces in the horizontal plane **UP TO 60 LBS** (27 kg) of Safe Working Load (SWL). It is perfectly suited to holding and carrying any Ferromagnetic substance such as steel plate, angle iron, pipe, and rod and bar stock.
- Maximum holding power will be achieved when the steel piece is flat, clean and bare mild steel similar to AISI 1020 of 3/16" (4.5 mm) or greater. Other materials, shapes and thinner materials will not achieve the same holding force and will have to be DeRated for safe lifting/handling.
- Other DeRating Factors include; any type of airgap, uneven surface, rough surface, debris, spatter, paint, rust, limited contact area, flexible metal, grease and other factors. Care must be taken to test the connection and to verify that it is adequate for the item being held or lifted.
- Test lifts are recommended; 1. Attach the magnet and turn it on 2. Lift the material an inch or two off the surface 3. Gently shake the material in the position that it will be carried to determine that the material will not fall off of the magnet.
- If the test lift is successful, carry or lift the material, being sure that no body part will be under the material, and that no object will come into contact with the magnet during the lift/carry.
- Avoid all shock forces that could cause the magnet to lose its grip.
- Never turn the magnets on when not in contact with metal. Sudden impact to the metal can occur causing personal injury or damage to the surfaces.
- When finished, push down and turn the Magnets handle counter clockwise 180 degrees to the "OFF" position, taking care that nothing will fall or become a hazard as the magnets will release their hold immediately.
- When used for material holding for metals that are to be welded, be careful not to overheat the magnets. Temperatures above 180° F (80°C) internal will permanently degrade the magnetic power and holding strength. Magswitch recommends a tack weld only to keep the heat transfer to a minimum. **Magswitch recommends a minimum of 3 inches from the magnet to the weld point**, and that the magnet is removed immediately after the tack weld to reduce heat transfer.
- The Hand Lifter 60-M is ideal for use in picking parts and pieces off of Cutting or Burn Tables. This may result in the magnet contacting very hot pieces of metal. Great care must be taken to ensure that the magnet does not go beyond its safe working temperature of 180° F (80°C). Limited contact time may be necessary to prevent this from occurring. The magnet may also be left on a steel plate that is not hot in between uses to act as a Heat Sink and to draw the heat from the magnet to keep it cool.
- To fix the handle at 90°, install the M5x.8 Button Head Cap Screws that came with the Hand Lifter as shown below. Remove to allow the handle to pivot





Hand Lifter 60-CE

Magswitch Technology Inc.

8774 Yates Drive #140

Operation and

This Magswitch Hand Lifter 60-CE Is Designed To Lift Steel Plate, Pipe, Bar And Rod Stock, Flat Stock Or Angle Iron.

For Safety, This Device Is Rated For Loads **UP TO 60 Lbs (27 kg)**

Using Patented Technology, This Device Has Tremendous Holding Power As Well As A Great Amount Of Shear Force Holding Strength To Prevent Sideways Movement.

Read All Instructions! Failure To Follow All Instructions Listed Below May Result In An Unsafe Or Dangerous Condition.

General Information

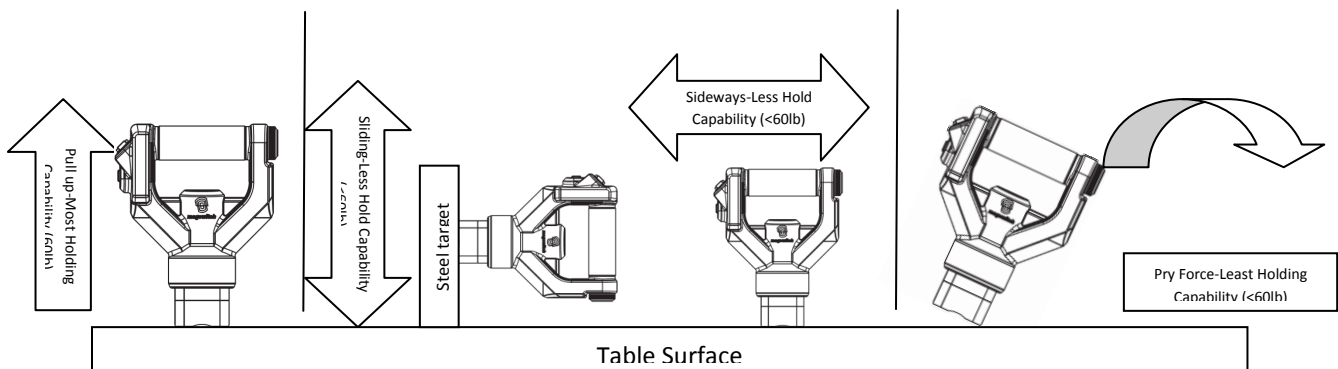
- All Magnets need to be *kept at a safe distance* from all Magnetic storage devices, electronics and credit cards etc...
- Ensure that the Magswitch Magnet is *stored in the "off" position* when not in contact with Ferromagnetic metals.
- **Never use a Magswitch Hand Lifter for OVERHEAD LIFTING!**
- **DO NOT attempt to disassemble** the Magswitch Magnets; there are no user serviceable parts inside the device.
- All Magswitch products are *designed for normal work/job site conditions*, do not use underwater or in a hazardous environment
- **DO NOT use the Magswitch Hand Lifter if it is damaged or is not working properly.** Severe injury can occur if this device is not used properly and safely.
- **DO NOT expose the Magswitch Magnets to temperatures above 180 deg. Fahrenheit (80 Celsius).** High temperatures will permanently degrade the Magnet's effectiveness and may result in an unsafe condition.
- **Not recommended for painted or finish coated surfaces** as these will reduce the magnetic bond and the finish may be damaged.
- **This product contains PTFE lubricant.** For MSDS information contact Magswitch.

To Use The Hand Lifter 60-CE

- Always **test the connection** before attempting to use the Magswitch Hand Lifter to ensure that it is capable of holding the material securely.
- **Numerous factors can negatively affect the strength** of the magnetic bond. Dirt, debris, oils and grease, painted surfaces and any gap between the Magnets and the metal surface will decrease the bond. **Ensure that the metal is clean** and free of these factors.
- **Thicker metals will be held more strongly than thinner metals.** E.g.: 1/4" (6mm) steel will be held more strongly than thin gauge metals.
- **Never exceed the rated capacity** of the device or attempt to alter the device in any way. Each Magnet has up to 60 lbs (27 kg) of Safe Working Load (SWL) under ideal conditions. Tested in accordance with Magnet Distributors and Fabricators Association testing methods and represents a straight Break-Away pull. Actual in-use results will vary greatly and **user must test every bond to determine the suitability of the magnet** to hold the material.
- **Avoid sudden jerking or Shock force** as this will cause the Magnets to lose its hold.
- **This Hand Lifter 60 is not designed to be used as a welding ground clamp** or as part of an electrical circuit.
- For safe operation, the **bottom surface of the Magnet must always be Flat and Smooth.** If necessary, it is possible to sand the Magnet face smooth using 400 grit sandpaper and a flat surface. **Always file any burrs** that would interfere with full contact.

Hand Lifter 60-CE Operation

- **4 Volt Li Ion Battery installs and is removed by unscrewing battery cap located on end of the handle grip.**
- **DO NOT turn on unless in contact with metal!**
- **Bring the Hand Lifter into contact with steel,** push the Green "ON" button to activate and begin the lift/carry process as described.
- **To release the Magnet push the RED "OFF" button until you hear a solenoid actuate and the magnet turn off.** The Magnet will **turn off and release Immediately** upon turning the handle, Use Caution to ensure that it is safe to release the Magnet and that nothing will fall or become dangerous.
- This Magswitch Hand Lifter 60 is capable of **exceptional Break-Away force** holding power; Magswitch Magnets are exceptionally strong in **Shear Force** as well. **Prying force is the least powerful** of the holding capabilities and great care must be used when attempting to use this device with Pry force. **See Illustrations below.**



Magswitch Limited Warranty

Magswitch products are covered by a One Year Limited Warranty on Material and Workmanship. Warranty is Non-Transferable.

Magswitch reserves the right to inspect all product claims under warranty. Any alteration of the device voids this warranty.

User assumes all risk for the proper use of this device and for ensuring product suitability for intended application.

This warranty shall not cover any incidental or consequential damages due to the improper use or failure of this device.

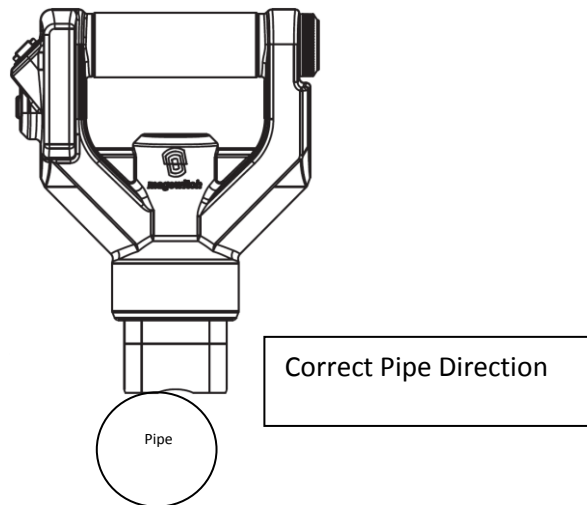
All Magswitch products are covered under International and U.S. Patents 6,707,360 & 7,012,495. Add'l patents pending.

Part Number 110139_3

Revision Date, February 28, 2011

Hand Lifter 60-CE Usage Manual

- This Hand Lifter 60-CE is designed to lift ferrous steel pieces in the horizontal plane **UP TO 60 LBS** (27 kg) of Safe Working Load (SWL). It is perfectly suited to holding and carrying any Ferromagnetic substance such as steel plate, angle iron, pipe, and rod and bar stock.
- Maximum holding power will be achieved when the steel piece is flat, clean and bare mild steel similar to AISI 1020 of 3/16" (4.5 mm) or greater. Other materials, shapes and thinner materials will not achieve the same holding force and will have to be DeRated for safe lifting/handling.
- Other DeRating Factors include; any type of airgap, uneven surface, rough surface, debris, spatter, paint, rust, limited contact area, flexible metal, grease and other factors. Care must be taken to test the connection and to verify that it is adequate for the item being held or lifted.
- Test lifts are recommended; 1. Attach the magnet and turn it on 2. Lift the material an inch or two off the surface 3. Gently shake the material in the position that it will be carried to determine that the material will not fall off of the magnet.
- If the test lift is successful, carry or lift the material, being sure that no body part will be under the material, and that no object will come into contact with the magnet during the lift/carry.
- Avoid all shock forces that could cause the magnet to lose its grip.
- Never turn the magnets "ON" when not in contact with metal. Sudden impact to the metal can occur causing personal injury or damage to the surfaces.
- When finished, push the RED "OFF" button until you hear a solenoid actuate and the magnet turn off, taking care that nothing will fall or become a hazard as the magnets will release their hold immediately.
- When used for material holding for metals that are to be welded, be careful not to overheat the magnets. Temperatures above 180° F (80°C) internal will permanently degrade the magnetic power and holding strength. Magswitch recommends a tack weld only to keep the heat transfer to a minimum. **Magswitch recommends a minimum of 3 inches from the magnet to the weld point**, and that the magnet is removed immediately after the tack weld to reduce heat transfer.
- The Hand Lifter 60-CE is ideal for use in picking parts and pieces off of Cutting or Burn Tables. This may result in the magnet contacting very hot pieces of metal. Great care must be taken to ensure that the magnet does not go beyond its safe working temperature of 180° F (80°C). Limited contact time may be necessary to prevent this from occurring. The magnet may also be left on a steel plate that is not hot in between uses to act as a Heat Sink and to draw the heat from the magnet to keep it cool.



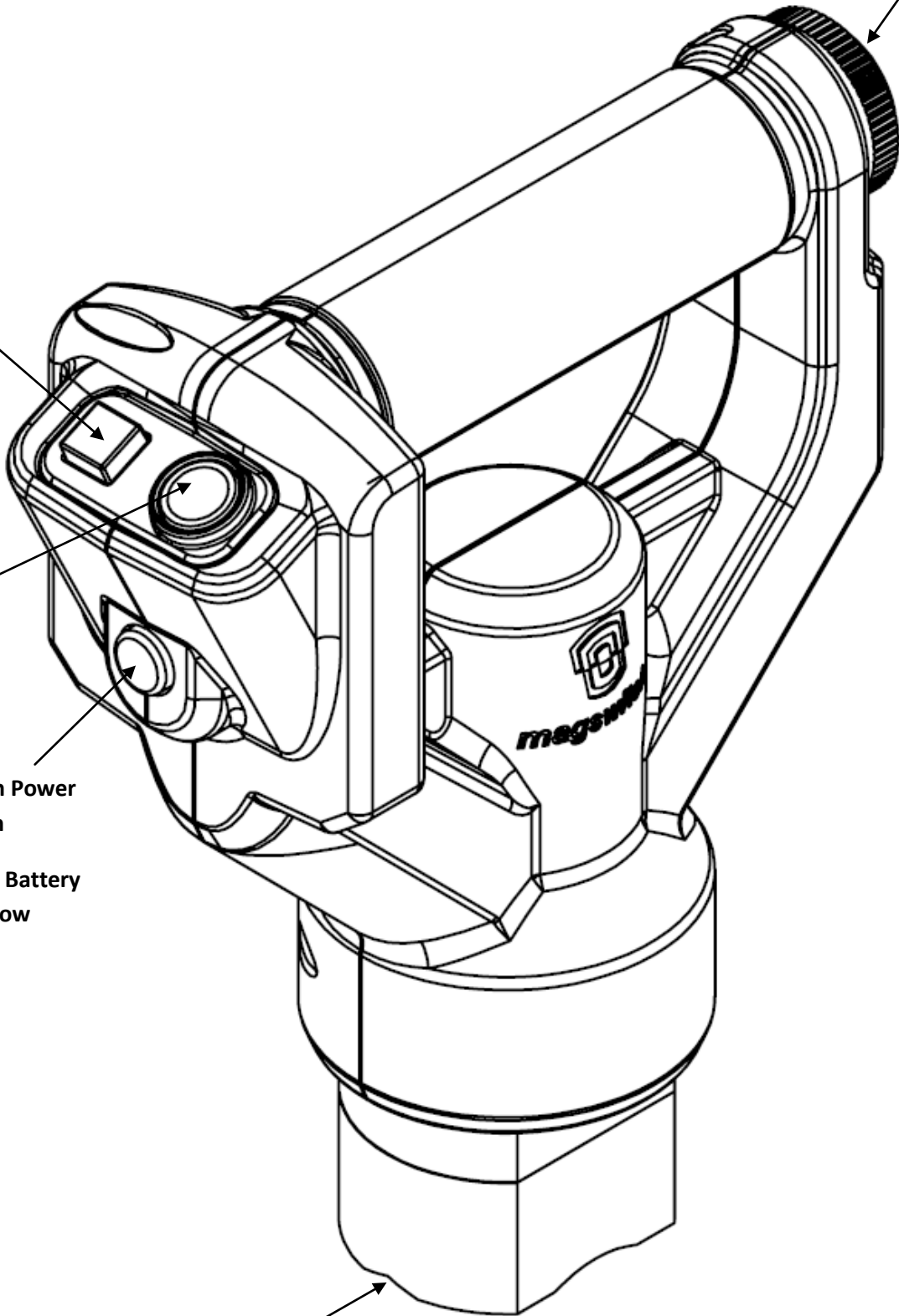
Understanding Your Magswitch Hand Lifter 60-CE

Screw cap for installation and removal of the 4 Volt Li Ion Battery

- Green ON Button
- Red OFF Button
- Lighted Green Power Button
Flashes When Battery Level Is Low

Part Number
Revision Date

Groove for Pipe/Tube





Extend-A-Lift 60

Operation and

Magswitch Technology Inc.

8774 Yates Dr. #140

Westminster, CO 80031

www.Magswitch.com.au

This Magswitch Extend-A-Lift Is Designed To Lift Steel Plate, Pipe, Bar And Rod Stock, Flat Stock Or Angle Iron. Using Patented Technology, This Device Has Tremendous Holding Power As Well As A Great Amount Of Shear Force Holding Strength To Prevent Sideways Movement.

Read all instructions! Failure to follow all instructions listed below may result in an unsafe or dangerous condition.

General Information

- All Magnets need to be *kept at a safe distance* from all Magnetic storage devices, electronics and credit cards etc...
- Ensure that the Extend-A-Lift is *stored in the "OFF" position* when not in contact with ferrous metals. The Extend-A-Lift can be left ON or OFF indefinitely without harm. When ON and near Ferrous metals there will be a sudden and powerful attraction.
- *Never use an Extend-A-Lift to lift Heavy materials over 60 lbs, (32kg)*, It is also ideal for light weight metal, debris cleanup, nuts and bolts, metal shavings, etc...
- *DO NOT attempt to disassemble or alter* the Magswitch Extend-A-Lift; there are no user serviceable parts inside the device.
- All Magswitch products are *designed for normal work/jobsite conditions*, do not use underwater or in a hazardous environment.
- *DO NOT use the Extend-A-Lift if it is damaged or is not working properly*. Severe injury can occur if this device is not used properly and safely.
- *DO NOT expose the Magswitch Magnets to temperatures above 176 deg Fahrenheit (80 Celsius)*. High temperatures will permanently degrade the Magnet's effectiveness and may result in an unsafe condition.
- *Never use an Extend-A-Lift for OVERHEAD LIFTING* or to transport materials higher than necessary.
- *Not recommended for painted or finish coated surfaces* as these will reduce the magnetic bond and the finish may be damaged.
- *This product contains PTFE lubricant*. For MSDS information contact Magswitch.
- *Always keep the bottom of the magnet clean and free of debris and rust*. If needed wipe with WD40 or light oil

To Use the Extend-A-Lift

- Always *test the connection* before attempting to use the Extend-A-Lift to ensure that it is capable of holding the material securely.
- *Numerous factors can negatively affect the strength* of the Magnetic bond, dirt, debris, oils and grease, painted surfaces and any gap between the Magnet and the metal surface will decrease the bond. *Ensure that the connection point is clean* and free of these factors.
- *Thicker metals will be held more strongly than thinner metals*. E.g.: 1/4" (6mm) steel will be held more strongly than thin gauge metals.
- *User must test every bond to determine the suitability of the magnet* to hold the material.
- *Lift the material 1-3 inches off the ground* to ensure that the magnet is capable of holding the weight safely. *Gently shake the magnet with the material attached to ensure that the bond is sufficient to handle a full lift without breaking away*.
- *Ensure that the magnet is centered on the material being lifted*. Material may slide off of the magnet if it is not held in a horizontal position.
- Always ensure that *when stacked sheets are present, that only one sheet is being lifted* at a time.
- *Extend-A-Lifts are rated to carry up to 70 lbs of material*, under ideal conditions,
- *Avoid sudden jerking or Shock force* as this will cause the Extend-A-Lift to lose its hold.
- Operator shall *immediately stop* using the lifting Magnet *if any improper performance or conditions exist* during the lift.
- This Magnetic lifter *is designed for straight, flat horizontal lifting*, never allow a lifted object to alter its plane from horizontal.
- *Never stand under load* being lifted or place any part of your body under the load.
- *DO NOT lift a load higher than necessary*.
- Only use Magnetic lifts on *material that does not flex or bend*.
- Always ensure that the *full face of the Magnet is in contact with the load*.
- Always ensure that the lifted materials *will not come in to contact with any obstruction* or body part while being carried.
- *This Extend-A-Lift is not designed to be used as a welding ground clamp* or as part of an electrical circuit.
- For safe operation, the *bottom surface of the Magnet must always be Flat and Smooth*. If necessary, it is possible to sand the Magnet face smooth using 400 grit sandpaper and a flat surface. *Always file any burrs* that would interfere with full contact.

Extend-A-Lift Operation

- *The handle on this Extend-A-Lift must be turned clockwise 180 degrees until it stops* in order to be turned "ON". It is not possible to hold the Magnet in place unless fully turned "ON".
- For ease of use *always place foot on Foot Plate to hold Extend-A-Lift in place when turning ON*.
- *DO NOT turn ON unless in contact with Ferrous Metal*
- *To release the Extend-A-Lift push down and turn the handle in the counter clockwise direction until it stops*. The Extend-A-Lift will *turn off and release* immediately upon turning the handle, Use Caution to ensure that it is safe to release the Extend-A-Lift and that nothing will fall or become dangerous.
- This Extend-A-Lift is capable of *exceptional Break-Away force* holding power; Extend-A-Lifts are exceptionally strong in *Shear Force* as well. *Prying force is the least powerful* of the holding capabilities and great care must be used when attempting to use this device with Pry force. *See illustrations below*.

DeRating the Rated Load Capacity

Numerous factors can reduce the Safe Working Load of a lifting Magnet. Additional factors include the type of Metals being lifted.

Below is a Typical Derating Chart, it shows how different metals are attracted to a Magnet.

Your results Will be Different depending on such conditions as;

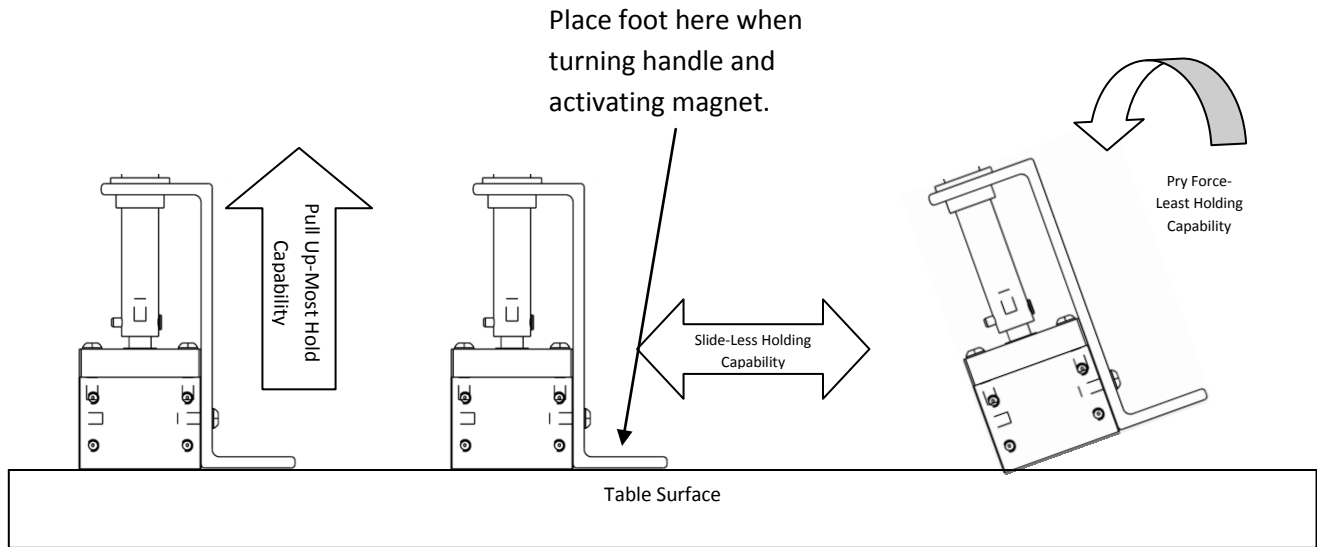
- Surface condition
- Surface Flatness
- Surface Smoothness
- And other conditions.



Reduction factors for Materials Other than AISI 1020 Steel	
Material	REDUCTION FACTOR
Cast Steel	0.90
3% Silicon Steel	0.80
Aisi 1095 Steel	0.70
416 Stainless Steel	0.50
Cast Iron Non-Chilled	0.45
Pure Nickel	0.10

After the Lift

- Always check Extend-A-Lift to ensure that no damage occurred and that it still complies with all requirements above.
- Always wipe off any debris or contaminants that became attracted to the Magnet that would prevent a safe lift in the future.
- Always store the Magnet in a safe location and in the “Off” position to ensure that no damage can occur or accidental contact with metal be made. Ensure that the storage area is free of humidity, debris, shavings etc.
- Wipe a light coating of oil on the Magnet as needed to prevent rust.
- For safe operation, the bottom surface of the Magnet must always be Flat and Smooth. If necessary, it is possible to sand the Magnet face smooth using 400 grit sandpaper and a flat surface. Always file any burrs that would interfere with full contact.



Magswitch Limited Warranty

Magswitch products are covered by a One Year Limited Warranty on Material and Workmanship. Warranty is Non-Transferable.

Magswitch reserves the right to inspect all product claims under warranty. Any alteration of the device voids this warranty.

User assumes all risk for the proper use of this device and for ensuring product suitability for intended application.

This warranty shall not cover any incidental or consequential damages due to the improper use or failure of this device.

All Magswitch products are intended for the use identified on the package - not intended for resale or integration into products for resale. Contact Magswitch for inquires on integration of technology. Australian Patent: 753496, Chinese Patent: 254155, New Zealand Patent: 518865, Singapore Patents: 88931; 103413, South Africa Patents: 2002/3752; 2004/1785, US Patents: 6,707,360; 7,012,495. Additional Patents and Patent Applications Pending.