



Extend-A-Lift 70 Operation and Instruction Manual

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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 70 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:

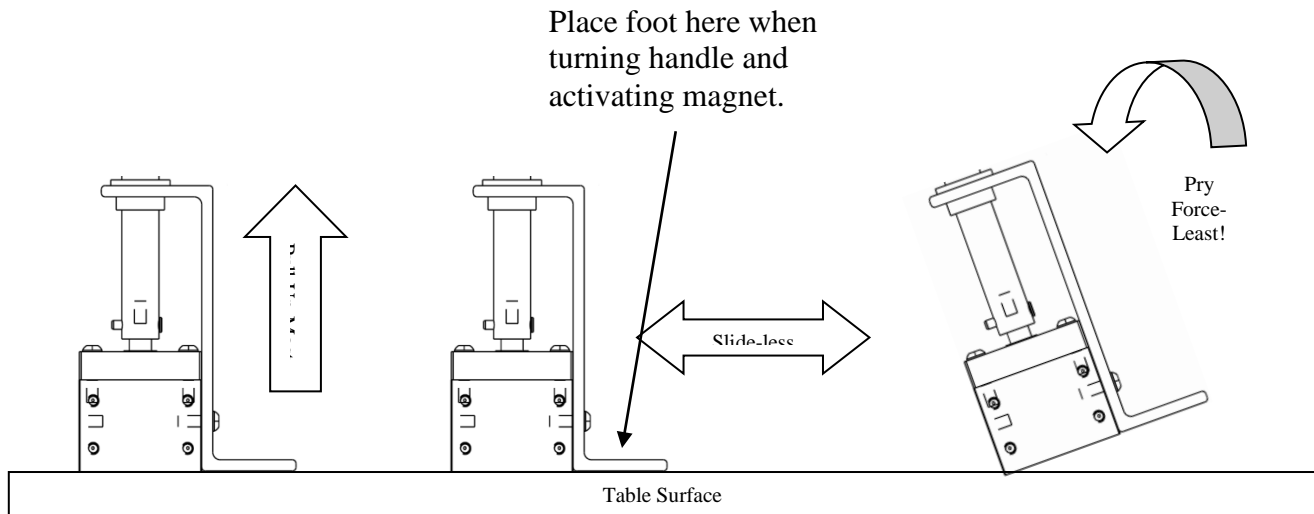
- Surface condition
- Surface Flatness
- Surface Smoothness
- And other conditions.



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 is 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.