



# BoomerAngle Operation and Instruction Manual

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This Magswitch Boomerangle Is Designed To Hold Steel Plate, Pipe, Bar And Rod Stock, Flat Stock Or Angle Iron. Using Patented Technology, These Magnets Have 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

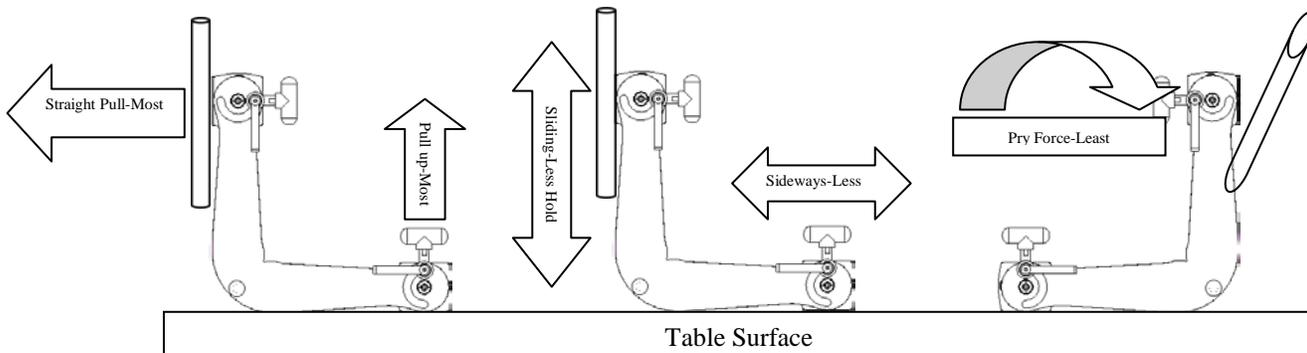
- All Magnets need to be *kept at a safe distance* from all Magnetic storage devices, electronics and credit cards etc...
- Ensure that the Magswitch Magnets are *stored in the "off" position* when not in contact with Ferromagnetic metals.
- *Never use a Magswitch BoomerAngle to lift any material*, although it is ideal for debris cleanup, nuts and bolts, metal shavings, etc...
- *Never use a Magswitch BoomerAngle 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 BoomerAngle 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 Magnets' effectiveness and may result in an unsafe condition.
- *Not recommended for painted or finish coated surfaces* will reduce the magnetic bond and the finish may be damaged.
- *This product contains PTFE lubricant*. For MSDS information contact Magswitch.

## To use the BoomerAngle

- Always *test the connection* before attempting to use the Magswitch BoomerAngle 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*. Eg: 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 on the BoomerAngle 150 has up to 150 lbs (68kg) of Break-Away Force. Each Magnet on the BoomerAngle 600 has up to 600 lbs (272 kg) of Break-Away Force, 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.
- *Never use any Magswitch BoomerAngle as a welding ground or as part of an electrical circuit!*
- *Never use the BoomerAngle without first tightening the* knobs to secure the magnets in place. Always test this hold to ensure that nothing moves or causes a pinch point.
- 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.

## BoomerAngle Operation

- *The magnet handles on this Magswitch BoomerAngle must be turned clockwise 180 degrees until they stop* in order to be turned "ON". It is not possible to hold the Magnets in place unless fully turned on.
- *DO NOT turn on unless in contact with Ferromagnetic Metal!* The magnet can be left ON or OFF indefinitely without harm. When ON, and near a Ferromagnetic object, the magnet will attract suddenly and powerfully possibly causing damage to the surfaces or the user.
- *To release the Magnets push the handle down and turn the handle in the counter clockwise direction until it stops*. The Magnets will *turn off and release Immediately* upon turning the handle, Use Caution to ensure that it is safe to release the Magnets and that nothing will fall or become dangerous.
- *Always turn off power tools before turning the MagSquare ON or Off to avoid injury*
- This Magswitch BoomerAngle 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.

## BoomerAngle Usage Manual-(150 and 600mm)

- This BoomerAngle is perfectly suited to work-holding applications when holding any Ferromagnetic substance such as steel plate, angle iron, pipe, and rod and bar stock.
- As with all precision devices, damage can occur from dropping, bumping and impact. Magswitch recommends periodic inspection by the user to ensure that the BoomerAngle is still accurate and fits their needs.
- This BoomerAngle is equipped with ratcheting knobs to tighten/loosen the magnets. They can be pulled out and rotated to be in the most comfortable location during use.
- It is possible to remove the knobs and posts on one side of the 600 model's magnets in order to lay the BoomerAngle flat. Be sure to test the strength of the magnetic hold and position to ensure that the material is held safely. (Applies to BoomerAngle 600 only).
- The magnets can be turned to provide for either an Inside or Outside angle. They are limited by a slot in the side plates which allows for free movement in a 180 degree arc. Do not force the magnets to rotate, loosen the knobs and turn the magnets before tightening the knobs securely.
- To use the BoomerAngle, simply position the material exactly as required then turn the handle clockwise 180 degrees until it locks in place to the "ON" position. As you turn the handle, the magnetic grip increases allowing for accurate positioning until fully held in place.
- Never turn the magnets on when not in contact with Ferromagnetic metal. Sudden impact to the metal can occur causing personal injury or damage to the surfaces.
- Always test the hold of the Magnets to ensure that it is sufficient to secure the material in place without slipping or falling.
- When finished, Push down and turn the Magnet's handle counter clockwise until it stops turning 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 176° 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.
- In order to avoid interfering with the spark, and to avoid overheating the magnet, always keep at least 3 inches from the magnet with the spark. Magswitch recommends a tack weld at least 3 inches away from the magnet, and the prompt removal of the magnet from the heat source in order to avoid excessive heat transfer.