



MiniAngle Operation and Instruction Manual

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This Magswitch Mini Angle Is Designed To Hold Small And Medium Sized Pieces Of Steel In Place Until A Tack Weld Can Be Performed. Using Patented Technology, This Device Has Tremendous Holding Power On All Sides Of The Side Plates, As Well As A Great Amount Of Shear Force Holding Strength To Reduce Sideways Movement. On/Off Control And Easy Cleaning Of Debris Make These The Perfect Choice!

Mini Angle, Mini Multi Angle, and Mini Multi Angle with 300 amp Ground Models.

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

General Information

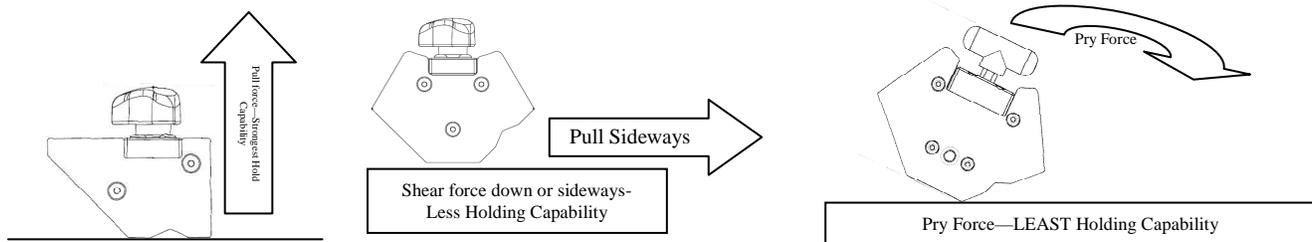
- All magnets need to be *kept at a safe distance* from all magnetic storage devices, electronics and credit cards etc...
- Ensure that the Magswitch Mini Angle is *stored in the "off" position* when not in contact with Ferromagnetic metals. . The MiniAngle can be left ON or OFF indefinitely without harm. When ON and near Ferromagnetic metals there will be a sudden and powerful attraction.
- *Never use a Magswitch Mini Angle to lift any materials overhead or where their release would cause injury or property damage.*
- *DO NOT attempt to disassemble or alter* the Magswitch Mini Angle; 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 Mini Angle 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 176deg Fahrenheit (80 Celsius).* High temperatures will permanently degrade the magnet's effectiveness and may result in an unsafe condition.
- *Never use a Magswitch Mini Angle for OVERHEAD LIFTING* or to transport material.
- *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 and side plates clean and free of debris and rust.* If needed wipe with WD40 or light oil

To use the Mini Angle (Mounts to flat or round Ferromagnetic steel)

- Always *test the connection* before attempting to use the Magswitch Mini Angle 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.*
- *Flat steel will be held more strongly than round bar stock or tube steel.*
- *Avoid sudden jerking or Shock force* as this will cause the magnet to lose its hold.
- *Never use the Mini Angle or the Mini Multi Angle as a welding ground or as part of an electric circuit.*
- *The Mini-Multi Angle w/Ground* is designed to be used as a ground clamp at up to 300 amp capacity (50% Duty Cycle) when in 100% contact with clean, bare, flat steel.
- 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.

Mini Angle Operation

- *The handle on this Magswitch Mini Angle 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". Turn ON only when in contact with ferromagnetic steel.
- *To release the magnetic hold, turn the handle in the counter clockwise direction until it stops. Remove all items attached to or hanging from the Mini Angle before turning 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 Mini Angle 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.

Magswitch Mini Angle Diagrams And Details

