



HAWK GLOBAL TECHNOLOGIES

SWITCHABLE WELDING MAGNET

OPERATION MANUAL

Read and understand all information and instructions prior to use. Failure to follow all instructions listed below may result in an unsafe or dangerous condition.

Welding Magnet are designed to hold steel plate, pipe, bar and rod stock, flat stock or angle iron. They have strong holding power and a great amount of shear-force holding strength to prevent sideways movement.

General Information

- All magnets need to be kept at a safe distance from all magnetic storage devices, electronics and credit cards etc.
- Store in the "OFF" position when not in contact with ferrous metals. The Welding Magnet 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 a Welding Magnet to lift any materials.
- DO NOT attempt to disassemble or alter, there are no user serviceable parts inside the device.
- On/Off magnets are designed for normal conditions, do not use underwater or in a hazardous environment.
- DO NOT use if damaged or not working properly. Severe injury can occur if this device is not used properly and safely.
- DO NOT expose the Welding Magnet to temperatures above 176 degrees Fahrenheit (80 Celsius). High temperatures will permanently degrade its effectiveness and may result in an unsafe condition.
- Never use for OVERHEAD LIFTING or to transport any materials.
- Not recommended for painted or finish coated surfaces as these will reduce the magnetic bond and the finish may be damaged.
- Always keep the bottom of the magnet clean and free of debris and rust. If needed, wipe with WD40 or light oil.

Tips For Use

- Always test the connection before use to ensure that it is capable of holding the material securely.
- Numerous factors can negatively affect the strength of the magnetic bond. Ensure that the connection point is clean and free of dirt, debris, oils, grease, and painted surfaces.
- Thicker metals will be held more strongly than thinner metals.
- Avoid sudden bumping or shock force as this will cause the Welding Magnet to lose its hold.
- Threaded holes are to mount accessories to it or to mount the Welding Magnet into a fixture. For best results do not attach ferrous metals to the Welding Magnet, unless using spacers as described below. This will maintain the strongest magnetic attraction.
- Stainless steel screws are recommended to be used to attach non-ferrous metal materials to the sides. Wood, plastics and aluminium are all non-ferrous metal materials that make excellent attachments. Alternatively, non-ferrous metal spacers can be placed between the Welding Magnet and a jig/fixture.
- Welding Magnet are 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, sand the magnet face smooth using 400 grit sandpaper and a flat surface. Always file any burrs that would interfere with full contact.
- Damage can occur from dropping, bumping and impact. Periodic inspection by the user is recommended to ensure that the 90-degree angles are still accurate.

Applications

Ideal for holding material in place when used on any cast iron or steel surface including:

- Table Saw
- Planer
- Jointer
- Shaper
- Steel Router Table top
- Band Saws
- Drill Presses
- Steel Fit-Up Table
- Welding Table
- Steel Pipe
- Flat Stock
- Bar Stock
- Angle Iron
- Structural Steel
- Vehicle Frame/Chassis
- Shop Machinery

Operation

- Never exceed the rated pull out force capacity of the magnet:
- Turn On - The handle on this Welding Magnet must be pushed down and turned clockwise 180 degrees until it stops. It is not possible to hold the magnet in place unless the "ON" position is fully engaged.
- DO NOT turn "ON" unless in contact with ferrous metal.
- Turn Off - To release the Welding Magnet push the handle down and turn the handle in the counter clockwise direction until it stops. The Welding Magnet will turn "OFF" and release immediately upon turning the handle. Use caution to ensure that it is safe to release the Welding Magnet and that nothing will fall or become dangerous.
- Always turn off power tools before turning the Welding Magnet "ON" or "OFF" to avoid injury.