

On/Off Workholding Jig Magnet

OPERATION MANUAL

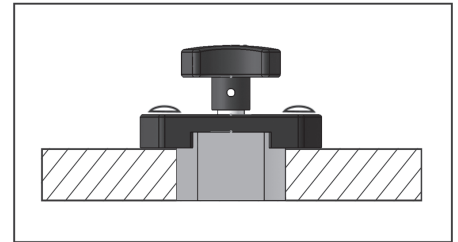
MJG095, MJG095MT, MJG150, MJG150MT

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.

This magnet is designed to hold a jig, fixture or similar device to any ferrous metal surface. Jig Magnets 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 the magnet in the "OFF" position when not in contact with ferrous metals. The 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 this magnet to lift or transport any materials.
- DO NOT attempt to disassemble or alter the magnet; 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 the magnet if damaged or not working properly. Severe injury can occur if not used properly and safely.
- DO NOT expose the magnet to temperatures above 176 degrees 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.
- Flanged magnets are designed to be installed into 3/4" thick non-ferrous metal materials. If installing into thinner materials it is possible to stack or shim the material to achieve 3/4" thickness. The magnet base will protrude very slightly, this is critical to ensure metal to metal contact.
- MJG095 and MJG095MT require a 30mm Forstner bit for installation. MJG150 and MJG150MT require a 40mm Forstner Bit to install.
- Always keep the bottom of the magnet clean and free of debris and rust. If needed, wipe with WD40 or light oil.



Installed Flanged Jig Magnet

Tips for Use

- Always test the connection before attempting to use the magnet 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.
- Stainless steel screws are recommended to be used to attach non-ferrous metal materials to the sides. Wood, plastics and aluminum are all non-ferrous metal materials that make for excellent attachments.
- Avoid sudden bumping or shock force as this will cause the magnet to lose its hold or to move.
- This magnet 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, sand the magnet face smooth using 400-grit sandpaper and a flat surface. Always file any burrs that would interfere with full contact.

Applications

Typical On/Off Workholding Jig Magnet applications include:

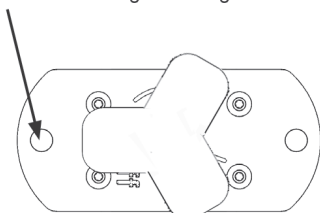
- Holding a cove molding jig in place
- Creating your own featherboard
- Holding a repetitive stop in place
- Holding down thin stock
- Creating a fence for your power tools
- Holding a bench top tool in place on your table saw

Operation

- Never exceed the rated capacity of the magnet:
MJG095 and MJG095MT - up to 95 lbs. (43 kg.) of holding force and 15 lbs. (7 kg.) of shear force.
MJG150 and MJG150MT - up to 150 lbs. (68 kg.) of holding force and 30 lbs. (14 kg.) of shear force.
- **Turn On** - The knob on this device must be turned clockwise 200 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 magnet, turn the knob counter clockwise until it stops. The magnet will turn "OFF" and release immediately upon turning the knob. Use caution to ensure that it is safe to release the magnet and that nothing will fall or become dangerous.
- Always turn off power tools before turning the magnet "ON" or "OFF" to avoid injury.

SECURING THE MAGNET

Secure the magnets using the mounting holes provided.



Use #6 or #8 screws, 8-32 or M4 machine screws.

MJG095MT hole spread:
1.81" or 46mm

MJG150MT hole spread:
2.2" or 56mm

USING MULTIPLE MAGNETS

To avoid unwanted rotation, use in pairs at ends of material. When using multiple magnets very close to each other, align the ON/OFF in the same direction for maximum magnetic holding power as shown.

