

Metabo MAG 32

Metabo MAG 32 Electromagnetic Core Drill User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Metabo MAG 32 Electromagnetic Core Drill. The MAG 32 is a robust 1/4" electromagnetic core drill designed for precision drilling tasks, featuring a powerful motor and a strong magnetic base for secure attachment to ferrous materials.

2. SAFETY INFORMATION

Always observe general power tool safety guidelines. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Electrical Safety:** Ensure the power supply matches the tool's requirements. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves. Avoid loose clothing.
- **Tool Specific Safety:**
 - The protective circuit ensures the motor only starts when the magnet is activated, preventing accidental operation.
 - Restart protection prevents unintentional start-up after a power supply interruption, enhancing user safety.
 - Secure the magnetic base firmly to the workpiece before starting any drilling operation.
 - Use the provided safety strap when working at heights or on vertical surfaces to prevent the tool from falling.

3. SETUP

Before operating the Metabo MAG 32, ensure proper setup and attachment of accessories.

3.1 Unpacking and Inspection

Carefully remove the drill and all accessories from the case. Inspect for any shipping damage. Included components typically are: Weldon 3/4" chuck, allen wrench, case, magnetic drill unit, and a safety strap.

3.2 Attaching the Drill Bit

Insert the desired core drill or spiral drill into the Weldon 3/4" chuck. Ensure it is securely fastened using the allen wrench. The lockable slide facilitates comfortable tool changes.

3.3 Coolant System

The drill features an integrated coolant container for easy-to-dose internal cooling from the core drill. Fill the container with appropriate cutting fluid before operation to prolong tool life and improve cutting performance.



Figure 1: The Metabo MAG 32 Electromagnetic Core Drill, showing its main components including the motor, magnetic base, and coolant reservoir.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your electromagnetic core drill.

4.1 Securing the Drill

1. Position the magnetic base on a clean, flat ferrous surface.
2. Activate the magnet using the designated switch. Ensure the magnetic base has a high holding

power before proceeding. The drill is designed for working on vertical surfaces and overhead due to its strong magnet.

3. Attach the safety strap to a secure anchor point and to the drill's handle for added security, especially when working in elevated positions.

4.2 Drilling Procedure

1. Align the drill bit with the desired drilling point. The bright LED light assists in easy alignment, particularly in poor light conditions.
2. Ensure the chip protection guard is in place. This guard can be fixed without tools and protects the user from metal shavings and tool contact.
3. Start the motor. The protective circuit will only allow the motor to start if the magnet is properly activated.
4. Slowly feed the drill bit into the workpiece using the feed handle. Apply steady, even pressure.
5. Monitor the coolant flow from the integrated container to ensure continuous cooling of the drill bit.
6. Once drilling is complete, retract the drill bit, switch off the motor, and then deactivate the magnetic base.



Figure 2: An operator demonstrating the use of the Metabo MAG 32 Electromagnetic Core Drill on a large metal beam, highlighting its capability for overhead and vertical applications.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Metabo MAG 32 drill.

- **Cleaning:** After each use, clean the drill, especially the magnetic base and chuck area, to remove metal shavings and debris.
- **Coolant System:** Empty and clean the coolant container regularly to prevent blockages and ensure efficient cooling.
- **Motor:** The Metabo long-life motor features patented dust protection, reducing the need for frequent internal cleaning. However, ensure external vents are clear of obstructions.

- **Cord Inspection:** Regularly inspect the sturdy electric cord (16') with rubber sheathing for any signs of damage. Replace immediately if damaged.
- **Storage:** Store the drill in its case in a dry, secure location when not in use.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Metabo MAG 32 drill.

- **Drill Not Starting:**
 - Check if the power cord is securely plugged in.
 - Ensure the magnetic base is fully engaged and activated. The protective circuit prevents motor start-up if the magnet is not active.
 - Verify there hasn't been a power interruption; the restart protection feature will prevent automatic restart. Cycle the power switch.
- **Poor Drilling Performance:**
 - Check the drill bit for sharpness and damage. Replace if necessary.
 - Ensure adequate coolant flow. Refill the coolant container if empty.
 - Verify the feed rate is appropriate for the material being drilled.
- **Magnetic Base Not Holding:**
 - Ensure the workpiece surface is clean, flat, and free of rust, paint, or debris.
 - Confirm the material is ferrous and thick enough for the magnet to engage effectively.
 - Check the power supply to the drill.

For issues not covered here, please contact Metabo customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	Metabo
Model	MAG 32
Power Source	Corded Electric
Voltage	110 Volts
Amperage	9 Amps
Rated Wattage	1000 Watts
No-load Speed	700 RPM
Revolutions at Rated Load	450 RPM
Max. Drill with Core Drill	1 1/4 inches
Max. Drill with Spiral Drill	1/2 inch

Feature	Specification
Item Weight	24.5 Pounds
Product Dimensions	12 x 4 x 12 inches
Special Features	Variable Speed, Magnetic Base, Integrated Coolant Container, LED Light, Chip Protection Guard, Restart Protection
Included Components	Weldon 3/4" chuck, allen wrench, case, magnetic drill, safety strap

8. WARRANTY INFORMATION



The Metabo MAG 32 Electromagnetic Core Drill comes with a **30-day performance warranty** and a **3-year limited warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or visit the official Metabo website.

9. SUPPORT

Should you require technical assistance, spare parts, or further information regarding your Metabo MAG 32, please contact Metabo customer support. You can find contact details on the official Metabo website or through the retailer where you purchased the product.

For more information, visit the [Metabo Store](#).

Related Documents - MAG 32

 <p>BE 6 BE 10</p>	<p>Metabo BE 6 / BE 10 Power Drill User Manual</p> <p>This user manual provides comprehensive instructions for the Metabo BE 6 and BE 10 power drills. It covers safety guidelines, operation, maintenance, troubleshooting, and technical specifications for optimal and safe use.</p>
 <p>SB 850-2 SBE 780-2 SBE 850-2 SBE 850-2 S SBEV 1000-2 SBEV 1100-2 S SBEV 1300-2 SBEV 1300-2 S</p>	<p>Metabo Rotary Hammer User Manual: SB 850-2 and SBE Series</p> <p>Comprehensive user manual and safety guide for Metabo SB 850-2, SBE 780-2, SBE 850-2, SBE 850-2 S, SBEV 1000-2, SBEV 1100-2 S, SBEV 1300-2, SBEV 1300-2 S rotary hammers. Includes operating instructions, maintenance, and safety information from Metabo.</p>

