EUROBOOR ECO.36+

EUROBOOR Magnetic Drill Press ECO.36+ Instruction Manual

Model: **ECO.36+** | Brand: **EUROBOOR**

1. Important Safety Instructions

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury. Save all warnings and instructions for future reference.

- **Personal Protective Equipment:** Always wear appropriate safety glasses, hearing protection, and gloves when operating the drill.
- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Ensure the power supply matches the tool's requirements (110 Volts, 9.5 Amps). Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Tool Operation:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Magnetic Base:** Ensure the magnetic base is fully engaged on a clean, flat, ferromagnetic surface before starting the motor. The **TempTec 2-Way Magnet** engages at 50% capacity until the motor is switched on, reducing heat and extending machine life.
- **Automatic Shut-Off:** The **GYRO-TEC** safety feature automatically shuts off the motor with sudden displacement, acceleration, loss of magnetic force, or excessive vibration.
- **Power Protection:** This drill includes **Enhanced Power Protection** against power fluctuations and surges, improving reliability in varying power supply conditions.

2. Product Overview

The EUROBOOR ECO.36+ is a low-profile magnetic drill press designed for efficient and precise drilling in various steel structures. Its compact size and powerful motor make it ideal for applications in confined spaces.

Image 1: The EUROBOOR ECO.36+ Magnetic Drill Press, showcasing its compact design and integrated handle.

Key Features:

- **Powerful Motor:** 9.5A motor with a no-load speed of 700 RPM (400 RPM under 9.5A load).
- **Annular Cut Capacity:** 7/16" - 1-7/16" capacity.
- **Strong Magnetic Base:** 2645 lbs magnetic base force for secure attachment.
- **Low Profile Design:** Measures only 165 mm (6 1/2") in height, suitable for limited access areas.
- **GYRO-TEC Automatic Shut-Off:** Enhances safety by detecting sudden movements or loss of magnetic force.
- **Enhanced Power Protection:** Protects against power fluctuations and surges.
- **TempTec 2-Way Magnet:** Reduces energy consumption and heat, extending magnet life.

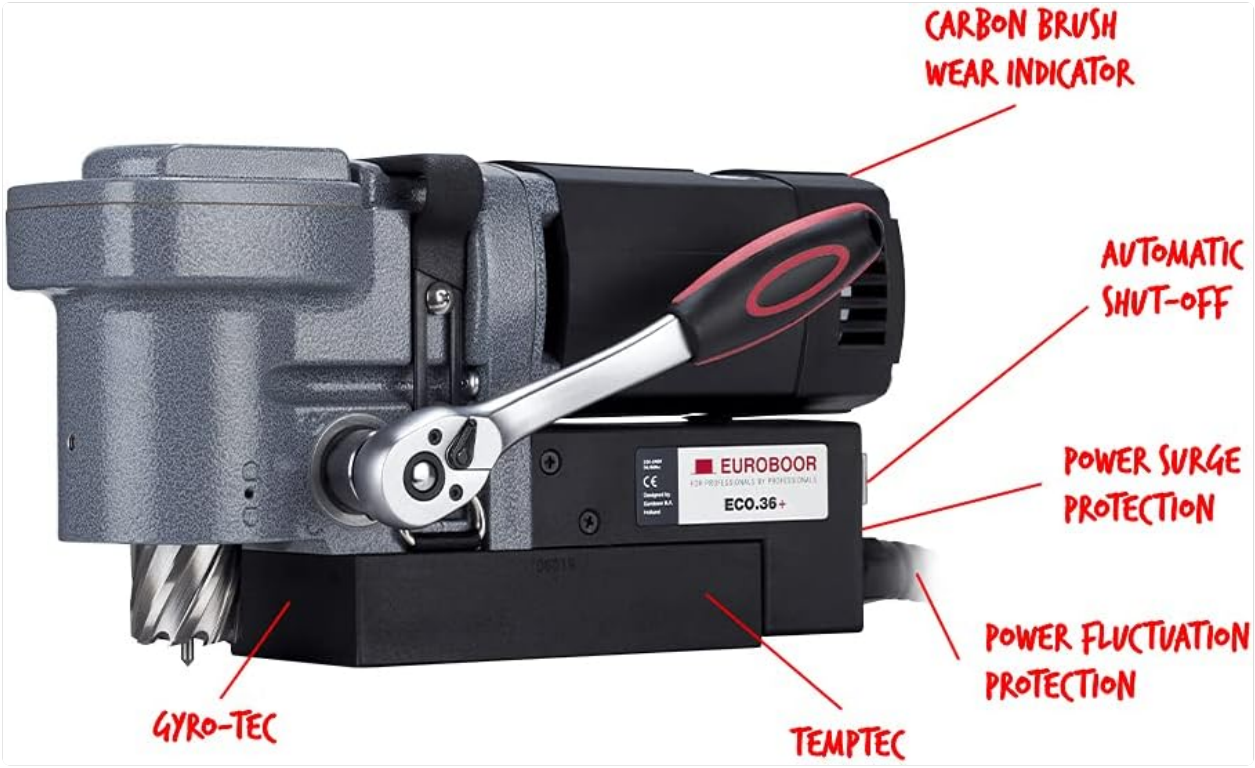

Image 2: Side view of the ECO.36+ highlighting key safety and operational features like GYRO-TEC, TempTec, and power protection.

3. Components and Controls

Familiarize yourself with the various components and controls of your ECO.36+ magnetic drill press before operation.

Image 3: Top-down view of the control panel, showing the motor and magnet switches.

Control Panel Functions:

- **Motor ON/OFF Switch (Green/Red):** The green button (labeled 'I' or '+') starts the drill motor. The red button (labeled 'O' or '-') stops the drill motor.
- **Magnet ON/OFF Switch (Red Toggle):** This switch controls the magnetic base. Position 'I' engages the magnet, securing the drill to the workpiece. Position 'O' disengages the magnet.
- **Carbon Brush Wear Indicator:** A small light or indicator (as shown in Image 2) that illuminates when the carbon brushes require replacement.

4. Setup

4.1 Unpacking and Inspection

Carefully remove the drill press from its packaging. Inspect the tool for any signs of damage that may have occurred during transit. Report any damage to your supplier immediately.

4.2 Attaching the Handle

1. Locate the ratcheting feed handle.
2. Insert the handle into the designated socket on the side of the drill body.
3. Ensure it is securely fastened.

4.3 Securing the Drill

1. Ensure the workpiece surface is clean, flat, and free of debris, rust, or paint to allow for maximum magnetic adhesion.
2. Position the magnetic drill press over the desired drilling location.
3. Engage the magnet by switching the Magnet ON/OFF switch to the 'I' position. Verify that the drill is firmly secured to the workpiece before proceeding. The TempTec magnet will engage at 50% power initially.

4.4 Annular Cutter Installation

1. Ensure the drill is disconnected from the power supply.
2. Insert the annular cutter into the arbor, ensuring the flats on the cutter shank align with the set screws in the arbor.
3. Tighten the set screws firmly with the provided hex key to secure the cutter.
4. Insert the pilot pin into the center of the annular cutter. The pilot pin helps center the cutter and eject the slug after drilling.

5. Operation

5.1 Pre-Operation Checks

- Confirm the drill is securely attached to the workpiece.
- Verify the annular cutter and pilot pin are correctly installed and tightened.
- Ensure all safety guards are in place.
- Wear all required personal protective equipment.

5.2 Drilling Procedure

1. Connect the drill to a suitable power supply.
2. Engage the magnetic base by switching the Magnet ON/OFF switch to 'I'.
3. Press the green Motor ON button to start the drill motor. The TempTec magnet will now engage at full power.
4. Slowly feed the cutter into the workpiece using the feed handle. Apply steady, even pressure. Do not force the drill.
5. Apply cutting fluid or coolant as necessary to prolong cutter life and improve cutting performance.

6. Once the hole is complete, retract the cutter from the workpiece.
7. Press the red Motor OFF button to stop the motor.
8. Switch the Magnet ON/OFF switch to 'O' to disengage the magnetic base.
9. Carefully remove the drill from the workpiece.

Image 4: The ECO.36+ magnetic drill press securely attached to and drilling into an I-beam, demonstrating its application in structural steelwork.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your EUROBOOR ECO.36+.

6.1 General Cleaning

- After each use, clean the drill press, especially the magnetic base and cutter area, to remove metal chips and debris.
- Use a dry cloth or soft brush. Do not use solvents that may damage plastic parts.

6.2 Carbon Brush Replacement

When the carbon brush wear indicator illuminates, the carbon brushes need to be replaced. This should be performed by qualified personnel following the specific instructions in the full service manual.

6.3 Lubrication

Periodically check and lubricate moving parts as recommended in the comprehensive service manual to ensure smooth operation.

6.4 Storage

Store the drill press in a clean, dry, and secure location, out of reach of children and unauthorized users.

7. Troubleshooting

This section addresses common issues you might encounter with your ECO.36+.

Problem	Possible Cause	Solution
Drill motor does not start	No power supply; Faulty switch; Worn carbon brushes.	Check power connection; Test switch; Replace carbon brushes.
Magnetic base not engaging fully	Workpiece surface is dirty/uneven; Material is non-ferromagnetic; Magnet switch faulty.	Clean workpiece surface; Ensure material is steel/iron; Check magnet switch.
Poor cutting performance / Excessive vibration	Dull cutter; Incorrect feed pressure; No coolant; GYRO-TEC activated.	Replace/sharpen cutter; Adjust feed pressure; Apply coolant; Check for GYRO-TEC activation cause.
Drill stops unexpectedly	GYRO-TEC activated; Power fluctuation/surge; Overload.	Check for movement/loss of magnet; Verify power supply stability; Reduce feed pressure.

8. Specifications

Technical specifications for the EUROBOOR ECO.36+ Magnetic Drill Press.

Specification	Value
Model Number	ECO.36+
Power Source	Corded Electric
Voltage	110 Volts
Amperage	9.5 Amps
Maximum Power	600 Watts
Maximum Rotational Speed (No Load)	700 RPM
Rotational Speed (Under 9.5A Load)	400 RPM

Specification	Value
Annular Cut Capacity	7/16" - 1-7/16"
Magnetic Base Force	2645 lbs
Height	165 mm (6 1/2")
Material	Steel
Special Features	GYRO-TEC Automatic Shut-Off, Enhanced Power Protection, TempTec 2-Way Magnet

Image 5: Technical drawing illustrating the dimensions of the EUROBOOR ECO.36+ magnetic drill press.

9. Warranty and Support

EUROBOOR products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official EUROBOOR website.

For technical assistance, spare parts, or service inquiries, please contact EUROBOOR customer support through their official channels. Always provide your product model number (ECO.36+) and serial number when seeking support.