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› Eibenstock ESD 162 Diamond Dry Core Drill with Soft Impact User Manual

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Eibenstock ESD 162 Diamond Dry Core Drill with Soft Impact User Manual

Model: ESD 162 | Brand: Eibenstock

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Eibenstock ESD 162 Diamond Dry Core Drill. Please read these instructions carefully before operating the tool and keep them for future reference. The ESD 162 is designed for dry drilling applications in various hard materials, featuring an innovative Impact Hybrid Technology (IHT) for enhanced performance.



Figure 1: The Eibenstock ESD 162 Diamond Dry Core Drill, showing the main body and the attached auxiliary handle for improved control.

2. SAFETY INSTRUCTIONS

Always observe general power tool safety guidelines to prevent injury and damage. This includes, but is not limited to:

- Wear appropriate personal protective equipment (PPE) such as safety glasses, hearing protection, and gloves.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Secure the workpiece properly before drilling.
- Check the power cord for damage before each use.
- Do not operate the tool in damp or wet conditions.
- Keep bystanders and children away from the operating area.
- Disconnect the tool from the power supply before changing accessories or performing maintenance.

3. PRODUCT FEATURES

The Eibenstock ESD 162 is equipped with advanced features for high-performance dry core drilling:

- **Newly Developed IHT Transmission:** Extremely robust due to Impact Hybrid Technology, ensuring durability and reliability.
- **High-Precision Toothed Crown Geometry:** Optimizes shock pulse emission at high frequency to the drill crown for faster drilling progress.
- **EDMC PRO Digital Motor Control:** Features digital motor control with service and overload display, providing enhanced protection and operational feedback.
- **Centering Rod Recording:** Allows for precise initial positioning of the drill.
- **Versatile Application:** Suitable for dry drilling up to 162 mm diameter in very hard materials like high-density sand-lime brick, reinforced concrete, and masonry. Can achieve up to 202 mm in masonry.

4. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Eibenstock
Model Number	03E25000
Voltage	230 Volts
Amperage	10 A
Item Weight	6.6 Kilograms
Maximum Power	2200 Watt
Drill Type	Hammer Drill (Core Drill)
Drilling Capacity (Wood)	162 Millimeters (Note: This tool is for masonry/concrete, not wood)
Drilling Capacity (Metal)	162 Millimeters (Note: This tool is for masonry/concrete, not metal)
No-load Speed	0 - 1100 min ⁻¹
Tool Holder	1 1/4" UNC - 1/2" i
Clamping Collar Diameter	60 mm
Optimal Drilling Diameter	82-162 mm (max 202 mm in masonry)

Note: The drilling capacities for wood and metal listed in some specifications may be generic. This tool is specifically designed for dry core drilling in hard masonry and concrete materials.

5. SETUP

1. **Unpacking:** Carefully remove all components from the case. Verify that all items listed in the "Scope of Delivery" section are present and undamaged.
2. **Attaching the Auxiliary Handle:** The auxiliary handle (as shown in Figure 1) provides additional stability and control. Securely attach it to the clamping collar of the drill. Ensure it is tightened firmly to prevent rotation during operation.
3. **Mounting the Core Bit:** Select the appropriate diamond core bit for your application. Screw the core bit securely onto the tool holder (1 1/4" UNC or 1/2" i). Use the provided open-end wrench (SW 32/41) if necessary to ensure a tight fit.
4. **Using a Drill Stand (Recommended for larger diameters):** For precise drilling, especially with larger diameters (e.g., above 82mm or for 202mm in masonry), it is highly recommended to use a suitable drill stand.



Figure 2: The ESD 162 drill securely mounted on a drill stand, ready for precise core drilling into a concrete wall. This setup enhances stability and accuracy.

Attach the drill to the stand according to the stand manufacturer's instructions. Ensure the stand is firmly anchored to the drilling surface (e.g., with vacuum or mechanical anchors) to prevent movement during operation.

5. **Power Connection:** Connect the drill to a suitable 230V power outlet. Ensure the power supply matches the tool's requirements.

6. OPERATING INSTRUCTIONS

1. Preparation:

- Mark the exact drilling location on the workpiece.
- Ensure the area behind the drilling surface is clear of electrical cables, pipes, or other obstructions.
- If using a drill stand, position the core bit precisely over the marked center.

2. Starting the Drill:

- Hold the drill firmly with both hands (or ensure it's securely mounted on a stand).
- Press the power switch to start the drill. The EDMC PRO system will monitor motor performance.

3. Drilling Process (Dry Drilling):

- Apply steady, even pressure. Do not force the drill. The soft impact function will assist in breaking down hard materials.
- Allow the diamond core bit to do the work. Excessive pressure can lead to overheating and premature wear of the core bit and tool.
- For manual drilling, maintain a firm grip and ensure stable footing.
- Monitor the EDMC PRO overload display. If an overload warning appears, reduce pressure.
- Periodically withdraw the core bit slightly to allow dust to escape and for cooling.



Figure 3: An operator demonstrating the use of the Eibenstock ESD 162 with a drill stand for dry core drilling. Note the dust extraction hose connected for efficient dust management.

4. Finishing the Drill:

- Once the desired depth is reached, switch off the drill and wait for the core bit to stop rotating completely.
- Carefully withdraw the drill and core bit from the hole.
- Remove the drilled core from the core bit.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Eibenstock ESD 162.

- **Cleaning:** After each use, clean the tool thoroughly. Remove dust and debris from the ventilation slots and housing using a brush or compressed air. Do not use water or solvents.
- **Inspection:** Regularly inspect the power cord for any signs of damage (cuts, fraying). Check the auxiliary handle and clamping mechanisms for tightness.
- **Carbon Brushes:** The carbon brushes are wear parts. If the motor performance decreases significantly or sparks become excessive, have the carbon brushes checked and replaced by a qualified service technician.
- **Storage:** Store the drill in its original case in a dry, secure location, out of reach of children.

8. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact Eibenstock customer support.

Problem	Possible Cause	Solution
Drill does not start	No power supply; damaged cord; faulty switch	Check power connection and outlet. Inspect cord for damage. If issues persist, contact service.

Problem	Possible Cause	Solution
Reduced drilling performance	Worn core bit; excessive pressure; material too hard	Replace worn core bit. Reduce drilling pressure. Ensure core bit is suitable for the material.
Overload warning (EDMC PRO)	Excessive pressure; dull core bit	Reduce feed pressure immediately. Check core bit for wear.
Excessive vibration	Loose core bit; damaged core bit; loose auxiliary handle	Ensure core bit is securely tightened. Inspect core bit for damage. Tighten auxiliary handle.

9. SCOPE OF DELIVERY

The standard package for the Eibenstock ESD 162 includes:

- Eibenstock ESD 162 Diamond Dry Core Drill with Soft Impact
- Transport Case
- Open-end Wrench SW 32/41
- *Note: Diamond core bits are typically sold separately and are not included in the standard delivery.*

10. WARRANTY AND SUPPORT

Eibenstock products are manufactured to high-quality standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Eibenstock website. For technical support, spare parts, or service inquiries, please contact your authorized Eibenstock dealer or the Eibenstock customer service department. Always provide the model number (ESD 162) and serial number of your tool when seeking assistance.

Official Eibenstock Website: www.eibenstock.com

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question