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› VEVOR Diamond Core Drilling Machine User Manual

VEVOR Z1Z-CF-9150/CF-DCD06

VEVOR Diamond Core Drilling Machine User Manual

Model: Z1Z-CF-9150/CF-DCD06

INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your VEVOR Diamond Core Drilling Machine. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent injury or damage.

The VEVOR Diamond Core Drilling Machine is a versatile tool designed for precise drilling and mixing tasks. It features a powerful 2000W motor, adjustable speed, and supports drilling diameters from 0.8 to 6.3 inches (20-160 mm). Its handheld design allows for maximum control in various construction environments, and it supports both wet and dry cutting methods for different applications.

SAFETY INSTRUCTIONS

Always adhere to the following safety guidelines to prevent accidents and ensure safe operation:

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, gloves, and a dust mask, especially during dry cutting operations.
- **Work Area Safety:** Keep the work area clean and well-lit. Do not operate the machine in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Ensure the power supply matches the machine's requirements. Do not expose the machine to rain or wet conditions. Use a Ground Fault Circuit Interrupter (GFCI) when operating in wet conditions.
- **Secure the Workpiece:** Always secure the material being drilled to prevent movement during operation.
- **Proper Handling:** Use both hands to operate the machine and maintain a firm grip on the auxiliary handle. Be aware of the machine's weight and balance.
- **Overload Protection:** The machine is equipped with an overload protection device. If the machine stops due to overload, reduce pressure and allow it to cool before resuming operation.
- **Mechanical Release Protection:** This feature prevents injury from instant jams. If a jam occurs, release the trigger immediately.
- **Leakage Protection:** The device reduces electric shock risk. Do not bypass or tamper with safety features.
- **Maintenance:** Disconnect the power plug from the power source before making any adjustments, changing accessories, or storing the machine.

MASTER MIXER IN SECONDS

From mixing to drilling, it handles it all



Image: Illustration of the machine's triple safety protection, including mechanical release, overload protection, and leakage protection.

PRODUCT COMPONENTS

The VEVOR Diamond Core Drilling Machine package includes the following items:

- 1 x VEVOR Diamond Core Drilling Machine
- 1 x Blow-molded Carrying Case
- 1 x Allen Wrench (M5)
- 2 x Rubber O-rings
- 2 x Carbon Brushes (Spare)
- Auxiliary Handle
- Fixed Shoulder Rest



Image: The VEVOR Diamond Core Drilling Machine along with its carrying case, Allen wrench, rubber O-rings, and spare carbon brushes.

SETUP

Attaching the Auxiliary Handle

The auxiliary handle can be attached in multiple positions (upside, left side, right side) to provide optimal control and comfort for various drilling angles and user preferences.

1. Identify the threaded mounting points on the drill body.
2. Screw the auxiliary handle firmly into the desired position. Ensure it is tightened securely before operation.

HANDHELD DESIGN

Built for tight spaces and irregular areas



Multi-directional Auxiliary Handle

Easier Operation, Meets Various Needs



Upside



Leftside



Rightside

Image: The core drilling machine shown with the auxiliary handle positioned for upside, left-side, and right-side operation, demonstrating its versatility.

Installing the Core Bit

Ensure the machine is unplugged before installing or changing core bits.

1. Align the core bit with the spindle of the drilling machine. The arbor size is UNC 1 1/4-7 thread.
2. Thread the core bit onto the spindle clockwise until it is hand-tight.
3. Use the provided wrench to firmly tighten the core bit, ensuring it is secure and will not loosen during operation.

Water Connection for Wet Drilling

For wet cutting, connect a water supply to the machine's water inlet. This reduces dust and heat, extending drill bit lifespan and enhancing safety.

1. Locate the water inlet port on the machine.
2. Connect the provided water hose to the inlet.

3. Connect the other end of the hose to a suitable water source (e.g., garden hose). Ensure all connections are secure to prevent leaks.
4. Regulate water flow as needed during operation.

OPERATING INSTRUCTIONS

General Operation

- **Power Connection:** Plug the machine into a suitable power outlet. Ensure the power source meets the machine's voltage and amperage requirements (28 Volts, 18 Amps).
- **Speed Adjustment:** The machine features stepless speed adjustment from 0-1800 RPM. Adjust the speed according to the material being drilled and the core bit size. Lower speeds are generally used for larger diameter bits and harder materials.
- **Starting the Machine:** Press the power switch to start the drill.
- **Drilling Technique:** Apply steady, even pressure. Avoid excessive force, which can lead to overheating or tripping the overload protection. Allow the drill to do the work.
- **Wet vs. Dry Cutting:**
 - **Dry Cutting:** Suitable for fast drilling in dry environments. Ensure adequate ventilation and dust collection.
 - **Wet Cutting:** Recommended for most applications, especially hard materials. Provides lubrication, reduces dust, and cools the bit, extending its lifespan. Ensure continuous water flow during operation.

WET AND DRY DUAL PURPOSE

Extend drill bit lifespan



DRY

Faster Cutting and Chip Removal



WET

Longer Lifespan
Reduce Dust

Image: Two panels illustrating dry cutting (left) with dust and sparks, and wet cutting (right) with water flow, showing reduced dust and enhanced cooling.

Mixing Function

The machine can also be used for mixing cement, paint, or glue. Ensure a suitable mixing paddle is attached to the spindle.

1. Attach the appropriate mixing paddle securely to the spindle.
2. Immerse the paddle into the material to be mixed.
3. Start the machine at a low speed and gradually increase as needed, ensuring the material is thoroughly mixed.

HIGH-EFFICIENCY HEAT DISSIPATION

Operate for longer periods without overheating

Multi-Hole Air Exhaust

Reduces Vibration and Noise Levels



Image: The machine configured with a mixing paddle, demonstrating its use for mixing paint, cement, and putty powder in a bucket.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR Diamond Core Drilling Machine.

- **Cleaning:** After each use, clean the machine thoroughly. Remove any dust, debris, or slurry. Use a damp cloth for external surfaces. Do not use harsh chemicals or solvents.
- **Carbon Brushes:** Periodically inspect the carbon brushes for wear. Replace them when they are worn down to approximately 1/4 inch (6mm) or if the motor performance decreases. Refer to the "Product Components" section for spare carbon brushes.
- **Lubrication:** Apply a small amount of lubricant (e.g., WD-40) to the post or moving parts of the drill stand (if applicable) to ensure smooth operation.
- **Storage:** Store the machine in its carrying case in a dry, clean place, away from direct sunlight and extreme temperatures.
- **Cord Inspection:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. Replace damaged cords immediately.

VEVOR[®]
TOUGH TOOLS, HALF PRICE

2000W POWERFUL PERFORMANCE

Complete drilling tasks quickly and efficiently



Φ0.8-6.3in
Drilling Diameter



UNC1 1/4-7
Thread

2000W *Rated Power*

0-1800RPM

Image: The core drilling machine displayed with its accessories, highlighting the spare carbon brushes which are essential for routine maintenance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Machine does not start.	No power supply; Faulty power cord; Worn carbon brushes; Overload protection tripped.	Check power connection and outlet. Inspect power cord for damage. Replace carbon brushes. Allow machine to cool and reset overload protection.
Machine stops during operation.	Overload protection tripped; Core bit jammed; Motor overheating.	Reduce pressure on the drill. Release trigger and clear any jam. Allow machine to cool down. Ensure proper water flow for wet drilling.

Problem	Possible Cause	Solution
Excessive vibration or noise.	Loose core bit; Damaged core bit; Worn bearings; Unbalanced drilling pressure.	Tighten core bit. Replace damaged core bit. Contact service for worn bearings. Apply even pressure during drilling.
Poor drilling performance.	Worn core bit; Incorrect speed setting; Insufficient water supply (wet drilling).	Replace worn core bit. Adjust speed according to material. Ensure adequate water flow.
Water leakage from connections.	Loose hose connections; Damaged O-rings.	Tighten all hose connections. Replace damaged O-rings.

SPECIFICATIONS

Feature	Detail
Model Number	Z1Z-CF-9150/CF-DCD06
Rated Power	2000W
Voltage	28 Volts
Amperage	18 Amps
Maximum Rotational Speed	1800 RPM (Stepless Speed)
Drilling Diameter	0.8-6.3 inches (20-160 mm)
Arbor Size	UNC 1 1/4-7 Thread
Product Dimensions	13 x 9.8 x 3.9 inches
Net Weight	17.2 Pounds (7.8 kg)
Power Source	Corded Electric



Image: A visual representation of the machine with its dimensions and a list of key specifications like model number, power, speed, and drilling diameter.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact VEVOR customer service. Refer to the product packaging or the official VEVOR website for the most up-to-date contact details.

Online Support: Visit the official VEVOR website for FAQs, product registration, and additional resources.

Protection Plans: Extended protection plans may be available for purchase. Please check with your retailer for details.

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