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Enventor 1500W

ENVENTOR SDS+ 1500W Rotary Hammer Drill User Manual

Model: 1500W | Brand: Enventor

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your ENVENTOR SDS+ 1500W Rotary Hammer Drill. Please read these instructions carefully before using the tool and keep them for future reference. This powerful tool is designed for heavy-duty tasks such as drilling in concrete, metal, and wood, as well as chiseling and demolition work.

2. GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep your work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves. Ensure the power cord is in good condition and avoid accidental starting. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

3. PRODUCT COMPONENTS

Familiarize yourself with the various parts of your rotary hammer drill for safe and efficient operation.



Figure 3.1: Rotary Hammer Drill Components

1. SDS Plus Chuck: For quick and secure bit changes.
2. Function Switch: Selects between drilling, hammer drilling, chiseling, and chisel positioning modes.
3. Vibration Damping Technology: Reduces user fatigue during extended use.
4. Start Switch: Activates the tool.
5. Non-slip Handle: Provides a secure grip.
6. Speed Adjustment: Controls the operating speed.
7. Carbon Brush Replace Hole: Access point for carbon brush maintenance.
8. Rotating Handle: Auxiliary handle for improved control and comfort.



Figure 3.2: Included Accessories

The package includes the 1500W electric hammer, 3 SDS Plus drill bits (8mm, 10mm, 12mm), 1 pointed chisel, 1 flat chisel, 1 auxiliary handle, 1 wrench, 1 grease, 1 greaser and connector, 2 carbon brushes, 1 guide ruler, and a carrying case.

4. SETUP AND ASSEMBLY

4.1 Installing SDS Plus Bits

The SDS Plus chuck allows for quick and tool-free bit changes.

1. Clean the shank of the SDS Plus bit.
2. Insert the bit into the SDS Plus chuck until it clicks into place. Pull on the bit to ensure it is securely locked.



Figure 4.1: SDS-Plus Keyless Chuck

This keyless chuck is designed for efficient and tool-free accessory replacement.

4.2 Installing the Drill Chuck Adapter (for cylindrical bits)

For standard cylindrical drill bits, use the included drill chuck adapter.

1. Insert the drill chuck adapter into the SDS Plus chuck as described above.
2. Open the jaws of the drill chuck using the chuck key.
3. Insert the cylindrical drill bit into the chuck and tighten it securely with the chuck key.



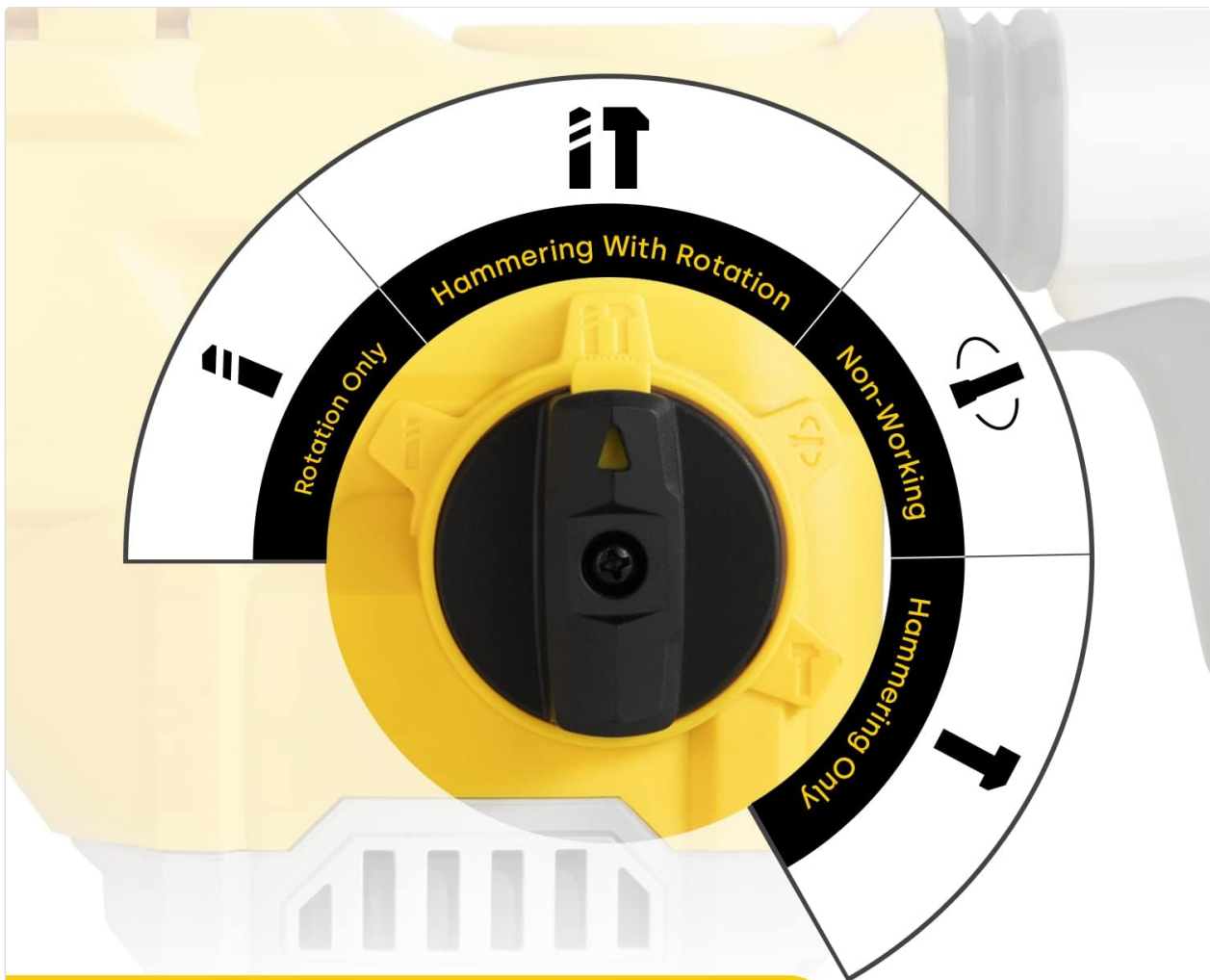
Figure 4.2: Drill Chuck Adapter Installation

The SDS-Plus keyless chuck fits SDS slot drill bits. A separate drill chuck adapter (not included in this specific image, but part of the kit) is used for cylindrical head drill bits (2-13mm).

4.3 Adjusting the Auxiliary Handle

The 360° rotating auxiliary handle provides optimal control and comfort for various working positions.

1. Loosen the auxiliary handle by rotating it counter-clockwise.
2. Adjust the handle to your desired position.
3. Tighten the handle by rotating it clockwise until secure.



4-MODES VERSATILITY

4 Modes Can Be Switched Quickly

(DRILL MODE; HAMMER DRILL MODE; PIT POSITIONING; HAMMER MODE)

Figure 4.3: 360° Rotating Auxiliary Handle

The auxiliary handle can be rotated 360 degrees for ergonomic use in various applications.

5. OPERATING MODES

The ENVENTOR SDS+ 1500W Rotary Hammer Drill features four distinct operating modes, selectable via the function switch.

SDS-PLUS KEYLESS CHUCK

SDS-Plus keyless chuck is designed to improve your work efficiency



Figure 5.1: 4-Modes Versatility Switch

Quickly switch between Drill Mode, Hammer Drill Mode, Pit Positioning, and Hammer Mode.

5.1 Mode Selection

Rotate the function switch to select the desired mode:

- **Drill Mode (Rotation Only):** For drilling in wood, metal, and plastics.
- **Hammer Drill Mode (Hammering with Rotation):** For drilling in concrete, masonry, and stone.
- **Hammer Mode (Hammering Only):** For chiseling and light demolition work.
- **Pit Positioning (Chisel Position Adjustment):** Allows you to rotate the chisel to the desired working angle without hammering.

4-MODES VERSATILITY



Figure 5.2: 4-Modes Versatility in Action

Visual representation of the four operating modes for various applications.

5.2 Speed Adjustment

The tool features a 6-speed adjustable setting to match the speed to the material and application.



Figure 5.3: 6-Speed Adjustable Dial

Adjust the speed from minimum to maximum (1-6) for optimal performance across different materials.

5.3 Operation Examples

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Video 5.1: ENVENTOR SDS+ 1500W Rotary Hammer Drill in Use

This video demonstrates the installation of SDS Plus bits, speed adjustment, and the use of the hammer drill in concrete, chisel mode for demolition, and drill mode for wood and metal. It highlights the tool's versatility and ease of use.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your tool.

- **Cleaning:** After each use, clean the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Keep the SDS Plus chuck clean and lubricated. Apply a small amount of grease to the bit shank before insertion to reduce wear.

- **Carbon Brushes:** The carbon brushes are wear parts. When they are worn, the motor performance may decrease. Replace both carbon brushes simultaneously using the carbon brush replace hole. Refer to Figure 3.1 for location.
- **Anti-Dust Design:** The tool features an anti-dust design to protect internal components. Regularly clear any accumulated dust from the ventilation openings.



Figure 6.1: Anti-Dust Design

The tool's design helps prevent dust ingress, contributing to longer tool life.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty power cord; Worn carbon brushes	Check power connection; Inspect power cord for damage; Replace carbon brushes.
Reduced impact force	Worn carbon brushes; Insufficient lubrication; Incorrect mode selection	Replace carbon brushes; Apply grease to the chuck mechanism; Ensure tool is in Hammer Drill or Hammer Mode.
Bit not holding securely	Chuck is dirty; Bit shank is damaged; Chuck mechanism is worn	Clean chuck and bit shank; Use a new bit; Contact service for chuck inspection.
Overheating	Blocked ventilation; Overloading the tool	Clear ventilation openings; Reduce load, allow tool to cool down.

8. SPECIFICATIONS

Detailed technical specifications for the ENVENTOR SDS+ 1500W Rotary Hammer Drill.

- **Model Number:** 1500W
- **Power:** 1500 Watts
- **Impact Energy:** 6.0 Joules
- **Impact Rate:** 4250 BPM (Blows Per Minute)
- **No-load Speed:** 880 RPM (Revolutions Per Minute)
- **Voltage:** 220V
- **Amperage:** 12 A
- **Power Source:** Corded Electric

- **Chuck Type:** SDS Plus
 - **Drilling Capacity (Concrete):** Up to 32 mm
 - **Drilling Capacity (Metal):** Up to 13 mm
 - **Drilling Capacity (Wood):** Up to 40 mm
 - **Product Dimensions (L x W x H):** 41 x 13.5 x 34 cm
 - **Item Weight:** 8.4 Kilograms
 - **Cord Length:** 2 Meters
 - **Special Feature:** Variable Speed
 - **Material:** Metal
 - **Color:** Black, Yellow
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9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please refer to the contact details provided with your product packaging or visit the official Enventor website. Keep your purchase receipt as proof of purchase for warranty claims.