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Enventor Z1C-HW01-3288EP

Enventor 1-1/4 Inch SDS-Plus 13A Heavy Duty Rotary Hammer Drill User Manual

Model: Z1C-HW01-3288EP

1. Introduction

Thank you for choosing the Enventor 1-1/4 Inch SDS-Plus 13A Heavy Duty Rotary Hammer Drill. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your tool. Please read it thoroughly before use and keep it for future reference.

2. Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

General Power Tool Safety

- **Work Area Safety:** Keep your 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:** Power tool plugs must match the outlet. Never modify the plug in any way. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool. Wear a dust mask in dusty conditions. Dress properly; avoid loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** 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.

Specific Rotary Hammer Drill Safety

- **Hold Tool Securely:** Always hold the tool firmly with both hands to maintain control, especially during hammer drilling operations.
- **Check for Hidden Utilities:** Before drilling into walls, floors, or ceilings, check for hidden electrical wires, gas pipes, or water pipes using appropriate detectors.
- **Dust Management:** Drilling operations produce dust. Use a dust collection system and wear a dust mask to prevent inhalation of harmful particles.
- **Bit Jamming:** Be prepared for the tool to react suddenly if the drill bit jams. The safety clutch is designed to protect your wrist, but maintaining a firm grip is crucial.
- **Overheating:** Allow the tool to cool down during prolonged use to prevent overheating.

3. Product Overview and Components

Familiarize yourself with the parts of your Enventor Rotary Hammer Drill for proper and safe operation.

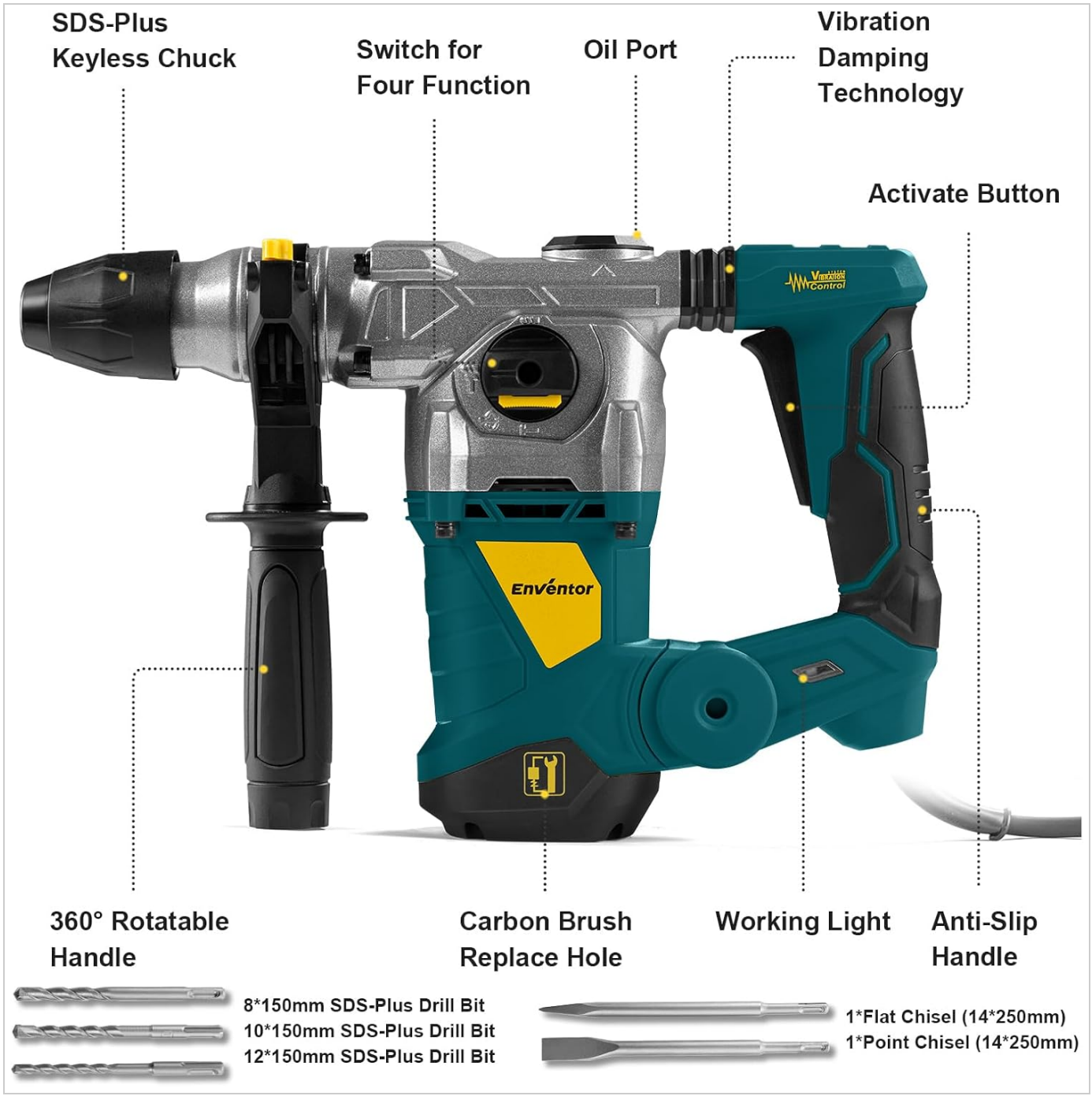


Figure 3.1: Key components of the Enventor Rotary Hammer Drill.

1. **SDS-Plus Keyless Chuck:** For quick and easy bit changes.
2. **Switch for Four Functions:** Selector knob for operating modes.
3. **Oil Port:** For lubrication.
4. **Vibration Damping Technology:** Reduces user fatigue.
5. **Activate Button:** Power trigger.
6. **Anti-Slip Handle:** Main grip area.
7. **Working Light:** Illuminates the work area.
8. **Carbon Brush Replace Hole:** Access for carbon brush maintenance.
9. **360° Rotatable Handle:** Auxiliary handle for improved control and comfort.



Figure 3.2: Enventor Rotary Hammer Drill and included accessories.

4. Assembly and Setup

4.1 Attaching the Auxiliary Handle

The 360° rotatable auxiliary handle provides additional control and comfort. Loosen the handle clamp, slide the handle onto the tool's neck, adjust to your desired position, and tighten the clamp securely.



Figure 4.1: The 360° rotatable handle and SDS-Plus keyless chuck.

4.2 Inserting SDS-Plus Bits/Chisels

The SDS-Plus keyless chuck allows for quick accessory changes without additional tools.

1. Clean the shank of the drill bit or chisel.
2. Pull back the chuck collar.
3. Insert the bit into the chuck until it clicks into place.
4. Release the chuck collar.
5. Pull on the bit to ensure it is securely locked. There will be a small amount of play, which is normal for SDS-Plus systems.

4.3 Adjusting the Depth Gauge

Insert the guide ruler into the designated hole on the auxiliary handle. Adjust its position to set the desired drilling depth, then tighten the auxiliary handle to secure the ruler.

5. Operating Instructions

5.1 Mode Selection

Your Enventor Rotary Hammer Drill features four operating modes, selected via the knob on the side of the tool. To switch modes, press the yellow lock button and rotate the knob to the desired setting.



Figure 5.1: Four operating modes of the rotary hammer drill.

- **Drill Mode (Rotation Only):** For drilling into wood, metal, and plastics. No hammering action.
- **Hammer Mode (Hammering Only):** For chiseling, chipping, and demolition work on concrete, masonry, or stone. No rotation.
- **PIT Positioning (Non-Working):** This mode allows for adjusting the chisel angle without rotation or hammering.
- **Hammer Drill Mode (Hammering with Rotation):** For drilling into concrete, brick, and masonry. Combines rotation and hammering action.

5.2 General Operation

1. Ensure the correct bit is installed and the mode is selected.
2. Hold the tool firmly with both hands, using the main handle and the auxiliary handle.
3. Position the bit on the workpiece.

4. Press the activate button (trigger) to start the tool.
5. Apply steady, even pressure. Do not force the tool; let the hammer action do the work.
6. When finished, release the trigger and wait for the tool to stop completely before setting it down.



Figure 5.2: Using the drill for demolition, benefiting from vibration damping.



Figure 5.3: Drilling into a metal surface.

6. Maintenance

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

6.1 Cleaning

- Always disconnect the tool from the power source before cleaning.
- Clean the ventilation openings regularly to prevent motor overheating.
- Wipe the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Clean the chuck regularly to ensure smooth bit insertion and removal.

6.2 Lubrication

The internal mechanism requires periodic lubrication. Use the provided 30g universal lubricating grease.

1. Locate the oil port on the tool (refer to Figure 3.1).

2. Use the oil cap wrench to open the oil port.
3. Apply a small amount of lubricating grease. Do not overfill.
4. Securely close the oil port.

6.3 Carbon Brush Replacement

Carbon brushes are wear parts and need to be replaced when worn down. The tool includes two replacement carbon brushes.

1. Locate the carbon brush replace holes on the tool (refer to Figure 3.1).
2. Unscrew the caps covering the carbon brushes.
3. Carefully remove the old carbon brushes.
4. Insert the new carbon brushes, ensuring they are oriented correctly.
5. Replace and tighten the caps.

6.4 Storage

Store the tool in its carrying case in a dry, secure place, out of reach of children.

7. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Tool does not start	No power supply Worn carbon brushes	Check power cord and outlet Replace carbon brushes
Reduced performance	Worn carbon brushes Insufficient lubrication	Replace carbon brushes Lubricate the tool
Bit jams frequently	Incorrect bit for material Excessive force applied	Use appropriate bit Reduce pressure, let tool work
Overheating	Blocked ventilation slots Prolonged heavy use	Clean ventilation slots Allow tool to cool down

If the problem persists after attempting these solutions, please contact Enventor customer support.

8. Specifications

Technical data for the Enventor 1-1/4 Inch SDS-Plus 13A Heavy Duty Rotary Hammer Drill.



Figure 8.1: Performance and motor details.

Feature	Specification
Brand	Enventor
Model Number	Z1C-HW01-3288EP
Power Source	Corded Electric
Voltage	110 Volts (AC)
Amperage	13 Amps
Maximum Power	1500 Watts
Maximum Rotational Speed	850 RPM
Impact Energy	6 Joules

Feature	Specification
Maximum Chuck Size	1.25 Inches (SDS-Plus)
Product Dimensions	12"L x 4.5"W x 15"H
Item Weight	16.76 pounds
Cord Length	6.56ft / 2m

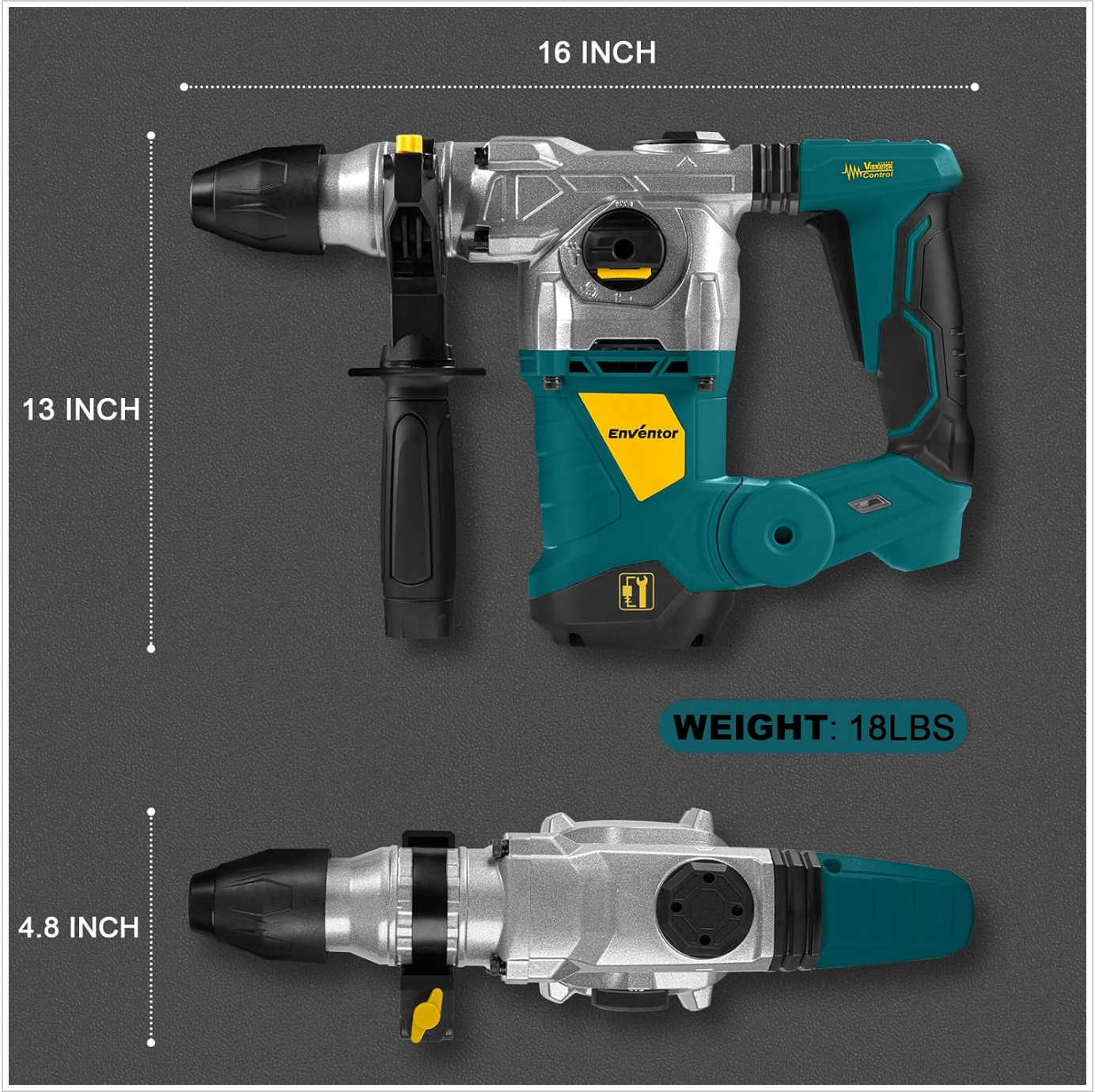


Figure 8.2: Product dimensions and weight.

9. Package Contents

The following items are included with your Enventor Rotary Hammer Drill:

- 1x Rotary Hammer Drill (Blue)
- 3 x SDS Drill Bits (8mm, 10mm, 12mm)

- 1x Auxiliary Handle
- 1 x 30g Universal Lubricating Grease
- 1 x Guide Ruler
- 2x Replacement Carbon Brushes
- 1x Oil Cap Wrench
- 1 x Flat Chisel (14x250mm)
- 1 x Point Chisel (14x250mm)
- 1x Dust Cover
- 1 x User Manual
- 1 x Carrying Case

10. Warranty and Support

Enventor products are manufactured to high-quality standards. For warranty information or technical support, please refer to the warranty card included with your product or visit the official Enventor website. You may also contact the seller directly for assistance.
For more information about Enventor products, visit the Enventor Brand Store.

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