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DOVAMAN RH15A

DOVAMAN RH15A Rotary Hammer Drill User Manual

Model: RH15A | Brand: DOVAMAN

1. INTRODUCTION AND PRODUCT OVERVIEW

The DOVAMAN RH15A Rotary Hammer Drill is a powerful and versatile tool designed for heavy-duty applications across various materials. Equipped with a 12.5 Amp motor, it delivers robust performance for drilling, hammer drilling, and chiseling tasks.



Figure 1: DOVAMAN RH15A Rotary Hammer Drill and included accessories.

Key Features:

- **Powerful 12.5 Amp Motor:** Delivers 0-900 RPM, 0-4350 no-load BPM, and 5.2 ft-lbs (7 Joules) of impact energy.
- **Four Operating Functions:** Easily switch between chiseling (hammer only), hammer drill, drill only, and chisel position adjustment modes.
- **User-Friendly Design:** Features upgraded Vibration Damping Technology (VDT) for reduced fatigue, an SDS-plus bit chuck for quick changes, a 360-degree adjustable auxiliary handle, and a comfortable rubber overmold grip.
- **Enhanced Durability and Safety:** Includes a safety clutch to prevent motor overload, a heat dissipation system for overheating protection, and an anti-dust structure for extended tool life.

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Video 1: An overview of the DOVAMAN RH15A 12.5Amp Rotary Hammer Drill, highlighting its key features and capabilities.

2. WHAT'S INCLUDED

Your DOVAMAN RH15A Rotary Hammer Drill package contains the following items:

- (1) DOVAMAN RH15A Corded Rotary Hammer Drill (120V compatible)
- (1) SDS-Plus Adaptor
- (1) Chuck Key
- (3) SDS-PLUS Drill Bits (8mm/10mm/12mm)
- (1) 10-inch Flat Chisel
- (1) 10-inch Point Chisel
- (2) Carbon Brushes
- (1) Depth Gauge
- (1) Wrench
- (1) Dust Collector
- (1) Carrying Case
- (1) User Manual (this document)
- (1) Lubricant Grease



Figure 2: All components included in the DOVAMAN RH15A package.

3. SETUP AND ASSEMBLY

3.1 Attaching the SDS-Plus Adaptor and Bits

The SDS-Plus chuck allows for quick and secure bit changes. To attach a bit:

1. Pull down the chuck collar on the drill.
2. Insert the SDS-Plus bit into the chuck until it clicks into place.
3. Release the collar. Pull on the bit to ensure it is securely locked.

For standard drill bits, use the included SDS-Plus Adaptor and Chuck Key:

1. Attach the SDS-Plus Adaptor to the drill as described above.
2. Insert your standard drill bit into the adaptor's chuck.
3. Tighten the chuck using the Chuck Key until the bit is firmly secured.



Figure 3: Steps for attaching the SDS-Plus adaptor and drill bits.

3.2 Adjusting the Auxiliary Handle

The auxiliary handle can be rotated 360 degrees for optimal control and comfort. Loosen the handle's locking mechanism, adjust it to your desired position, and then tighten it securely before operation.

360° ERGONOMIC HANDLE



Figure 4: The 360° adjustable ergonomic handle for improved control.

3.3 Setting the Depth Gauge

The included depth gauge helps achieve precise drilling depths. Insert the rod into the designated hole on the auxiliary handle, adjust it to the required depth, and secure it.

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Video 3: Demonstrates the setup and various functions of the DOVAMAN RH15A Rotary Hammer Drill, including chuck changes, handle adjustment, and depth gauge setting.

4. OPERATING MODES

The RH15A offers four distinct operating modes, selectable via the side multifunction selector:

- **Drill Only:** For drilling into wood, steel, or plastic.
- **Hammer Drill:** Combines rotation with hammering action, ideal for concrete or brick.

- **Chiseling (Hammer Only):** Provides hammering action without rotation, suitable for heavy-duty demolition work.
- **Chisel Position Adjustment:** Allows you to adjust the angle of the chisel before use to suit various work intensity requirements.



Figure 5: The multifunction selector for choosing operating modes.

4.1 Speed Control

The drill features a variable speed adjustment wheel, allowing you to select from 1 to 6 speeds to match the application and material. Adjust the speed before starting the drill for optimal performance and control.

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Video 4: Illustrates the four operating modes and speed control of the DOVAMAN RH15A Rotary Hammer Drill.



Figure 6: Maximum drilling capacities for various materials.

5. MAINTENANCE

5.1 Lubrication

Regular lubrication is crucial for maintaining the drill's performance and extending its lifespan. The drill features a cover plate at the top for easy access to the lubrication chamber. Use the provided lubricant grease and the included wrench to open and close the cover plate.

5.2 Carbon Brush Replacement

The carbon brushes are wear-and-tear components that may need replacement over time. The drill is designed for easy access to the carbon brush compartments. Refer to the detailed instructions in the physical user manual for the exact procedure.



Figure 7: Key maintenance points: cover plate for lubrication and carbon brush access.

6. SAFETY INFORMATION

Always prioritize safety when operating power tools. The DOVAMAN RH15A is equipped with several features to enhance user safety:

- **Safety Clutch:** Designed to prevent motor overload and protect the user from high forces during operation, thereby prolonging the motor's lifespan.
- **Vibration Damping Technology (VDT):** Suppresses vibration effectively, reducing user fatigue and increasing productivity during prolonged use.
- **Heat Dissipation System:** Protects the motor from overheating, contributing to the longevity of the hammer drill.
- **Anti-Dust Structure:** Extends the service life of the tool by preventing dust ingress into critical components.



Figure 8: Vibration Damping Technology (VDT) for comfortable operation.

7. SPECIFICATIONS

Feature	Specification
Brand	DOVAMAN
Model Number	RH15A
Power Source	Corded Electric
Voltage	120V (Only suitable for 120V)
Amperage	12.5 Amps
Maximum Rotational Speed	900 RPM

Feature	Specification
No-Load BPM	0-4350 BPM
Impact Energy	5.2 ft-lbs (7 Joules)
Number of Speeds	6
Maximum Drilling Diameter (Wood)	1-9/16 inches (40mm)
Maximum Drilling Diameter (Concrete)	1-1/4 inches (32mm)
Maximum Drilling Diameter (Metal)	1/2 inch (13mm)
Item Weight (Bare Machine)	12.3 pounds
Product Dimensions	15.4"L x 10.2"W x 4.6"H

8. TROUBLESHOOTING

If you encounter any issues with your DOVAMAN RH15A Rotary Hammer Drill, please refer to the following general troubleshooting tips:

- **Tool not starting:** Ensure the power cord is securely plugged into a 120V outlet. Check the on/off switch.
- **Reduced performance:** Verify that the correct operating mode is selected for the task. Check for proper bit installation and ensure the bit is sharp and undamaged. For hammering functions, ensure adequate lubrication.
- **Excessive vibration or noise:** This could indicate a loose component or a worn carbon brush. Discontinue use and inspect the tool.
- **Overheating:** Allow the tool to cool down. Ensure proper ventilation and avoid continuous heavy-duty operation without breaks. The built-in heat dissipation system helps prevent this.

For more detailed troubleshooting or issues not listed here, please contact customer support.

9. WARRANTY AND SUPPORT

Your DOVAMAN RH15A Rotary Hammer Drill comes with a user manual that provides comprehensive information. For any questions, concerns, or support needs, please feel free to contact DOVAMAN customer service. Contact information can typically be found in the included user manual or on the official DOVAMAN website.