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DEWALT D25143K

DEWALT D25143K 28mm SDS-Plus 3-Mode Combi Hammer

User Instruction Manual

1. Safety Instructions

Always observe basic safety precautions when operating power tools to reduce the risk of fire, electric shock, and personal injury. Read and understand all instructions before using this tool.

- **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. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **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.
- **Maintenance:** Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

2. Product Overview

The DEWALT D25143K is a robust 900-watt SDS-Plus 3-mode combi hammer designed for various drilling and chiseling applications in concrete, masonry, wood, and steel. It features a powerful motor and ergonomic design for comfortable handling.



Figure 1: The DEWALT D25143K Combi Hammer, showing the main unit, auxiliary handle, depth rod, and power cord.

Key Features:

- **Powerful 900 Watt Motor:** Delivers strong performance for demanding tasks.
- **3-Mode Function:** Offers rotary drilling, hammer drilling, and chipping for versatility.
- **Variable Speed Trigger:** Provides total control over drilling speed for precision.
- **Rotation-Stop:** Enables light chiseling applications in brick and soft masonry.
- **Impact-Stop:** Allows drilling in wood, steel, ceramic, and screw driving without impact.
- **Mechanical Clutch:** Designed to eliminate sudden high-torque reaction if the bit jams, enhancing user safety.
- **Ergonomic Design:** Rounded design ensures comfortable handling during prolonged use.

3. Setup

3.1 Attaching the Auxiliary Handle

The auxiliary handle provides additional control and stability during operation. Loosen the handle clamp, slide the handle onto the tool's neck, and tighten it securely in a comfortable position.



Figure 2: Proper grip and attachment of the auxiliary handle and depth rod.

3.2 Inserting and Removing SDS-Plus Bits

1. **Inserting:** Clean the shank of the SDS-Plus bit. Pull back the chuck collar, insert the bit until it clicks into place, then release the collar. Pull on the bit to ensure it is securely locked.
2. **Removing:** Pull back the chuck collar firmly and pull the bit out.



Figure 3: Detail of the SDS-Plus chuck mechanism and depth rod.

3.3 Setting the Depth Rod

The depth rod allows for precise drilling depth. Loosen the auxiliary handle, adjust the depth rod to the desired measurement, and then re-tighten the handle securely.

4. Operating Instructions

4.1 Mode Selection

The tool features a 3-mode selector switch to choose between different operating modes:



Figure 4: The mode selector dial, used to switch between drilling, hammer drilling, and chiseling functions.

- **Rotary Drilling (Drill Icon):** For drilling in wood, metal, and plastics. The impact mechanism is disengaged.
- **Hammer Drilling (Hammer and Drill Icon):** For drilling in concrete, masonry, and stone. Both rotation and impact are active.
- **Chipping/Chiseling (Chisel Icon):** For light chiseling, breaking, or demolition work in masonry. The rotation is stopped, and only the impact mechanism is active.

To select a mode, rotate the mode selector switch to the desired icon. Ensure the tool is unplugged or switched off before changing modes.

4.2 Variable Speed Trigger and Forward/Reverse Control

The variable speed trigger allows you to control the drilling speed by varying the pressure applied. The tool also features a forward/reverse switch, typically located near the trigger, for changing the direction of rotation.



Figure 5: The forward/reverse switch, located above the main trigger for easy access.

4.3 Operating Examples





Figure 6: Example of hammer drilling into a concrete block.



Figure 7: Example of drilling in a workshop environment.



Figure 8: Example of chiseling a brick wall.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your DEWALT Combi Hammer.

- **Cleaning:** Keep the tool's ventilation openings clean to prevent overheating. Regularly clean the chuck and bit shank to ensure proper bit seating. Use a soft, damp cloth for cleaning the tool housing.
- **Inspection:** Periodically inspect the power cord for damage. Check for any loose screws or worn parts. If any damage is found, have the tool serviced by a qualified technician.
- **Lubrication:** The internal components are factory lubricated. Do not attempt to lubricate internal parts yourself.



Figure 9: Top view highlighting the ventilation slots for motor cooling.

6. Troubleshooting

This section addresses common issues you might encounter with your combi hammer.

Problem	Possible Cause	Solution
Tool does not start	No power supply; damaged cord/plug; faulty switch	Check power outlet and connections. Inspect cord and plug for damage. If issues persist, contact service.
Reduced drilling performance	Worn drill bit; incorrect mode selection; motor overheating	Replace worn drill bit. Ensure correct mode is selected. Allow tool to cool down.
Bit jams frequently	Incorrect bit for material; excessive pressure; dull bit	Use appropriate bit for the material. Apply steady, not excessive, pressure. Replace dull bits.

7. Specifications

Feature	Detail
Model Number	D25143K-IN
Power Source	Corded Electric
Voltage	240 Volts
Amperage	14 Amps
Maximum Power	900 Watts
Drill Type	Hammer Drill
Drilling Capacity (Metal)	28 Millimetres
Approximate Tool Weight	2 kg (as per product title)
Product Dimensions (LxWxH)	23 x 8 x 21 Centimeters
Included Components	1 Combi Hammer
Country of Origin	China

8. Warranty and Support

For any warranty-related issues, product feedback, or technical support, please contact DEWALT customer care.

- **Customer Care Number:** 1860-425-1111
- **Operating Hours:** 10 AM to 5 PM, Monday to Friday (except government holidays)
- **Manufacturer:** DEWALT
- **Importer:** Stanley Black & Decker India Private Ltd #28, Akemps, 3rd Main, 1st Cross, Ashwini Layout Koramangala Bangalore - 560047

Please retain your proof of purchase for warranty claims.

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