OXTUL SDS Plus 3/8" x 8" Drill Bits

OXTUL 10-Piece 3/8" x 8" SDS Plus Rotary Hammer Drill Bits User Manual

Model: SDS Plus 3/8" x 8" Drill Bits

1. Introduction

This manual provides essential information for the safe and effective use of your OXTUL 10-piece set of 3/8" x 8" SDS Plus Rotary Hammer Drill Bits. These bits are designed for drilling into concrete, masonry, walls, brick, and stone. Please read these instructions thoroughly before use to ensure proper operation and to maximize the lifespan of your tools.

Figure 1: OXTUL 10-Piece SDS Plus Rotary Hammer Drill Bit Set.

2. Product Features

- **SDS Plus Shank:** The versatile SDS Plus shank system ensures a secure fit and efficient power transfer in compatible rotary hammer drills.
- **Optimized Brazing and Hardening:** Engineered for extended tool life and durability under demanding conditions.
- **Automatically Welded Carbide Tip:** Features a robust carbide tip that is automatically welded to prevent detachment, ensuring consistent drilling performance and enhanced safety compared to manual or high-frequency welding methods.
- **Enhanced Durability:** The carbide tip is designed to be tougher and more resilient, maintaining performance even under heavy loads.
- **Efficient Drilling:** Positive drive slots deliver maximum drilling torque and hammering energy for faster material penetration.

Figure 2: Detail of drill bit flutes and carbide tip.

3. Setup and Installation

1. **Safety First:** Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves, before operating power tools.
2. **Select the Correct Bit:** Choose the 3/8" x 8" SDS Plus drill bit for your specific drilling application in concrete, masonry, or stone.
3. **Prepare the Rotary Hammer:** Ensure your rotary hammer drill is unplugged or its battery is removed before installing or removing bits.
4. **Insert the Bit:**
    - Clean the SDS Plus shank of the drill bit to remove any debris.
    - Pull back the chuck collar on your rotary hammer drill.
    - Insert the SDS Plus shank into the chuck until it clicks into place. The bit should have a slight amount of play (movement in and out) once installed; this is normal for SDS Plus systems and allows for the hammering action.
    - Release the chuck collar. Gently pull on the bit to ensure it is securely locked.
5. **Verify Settings:** Set your rotary hammer drill to the appropriate mode (e.g., hammer drill mode for masonry).

Figure 3: SDS Plus shank detail.

4. Operating Instructions

1. **Mark the Drilling Location:** Clearly mark the precise spot where you intend to drill.
2. **Position the Drill:** Hold the rotary hammer drill firmly with both hands. Position the tip of the drill bit directly on the marked spot.
3. **Start Drilling:** Begin drilling at a low speed to create a pilot indentation, then gradually increase speed and apply steady, firm pressure. Allow the hammer action to do the work; excessive force is not required and can damage the bit or drill.
4. **Maintain Straightness:** Keep the drill bit perpendicular to the work surface to ensure a straight hole and prevent bit breakage.
5. **Clear Debris:** Periodically withdraw the drill bit slightly from the hole to allow dust and debris to escape, which helps prevent clogging and overheating.
6. **Cooling:** For deep holes or hard materials, allow the bit to cool periodically to prevent overheating, which can reduce bit life.
7. **Finish Drilling:** Once the desired depth is reached, withdraw the drill bit from the hole while the drill is still rotating.

5. Maintenance

- **Cleaning:** After each use, clean the drill bits to remove dust, debris, and any residue. A wire brush can be used for stubborn material.
- **Lubrication:** Apply a thin coat of light oil to the SDS Plus shank periodically to ensure smooth insertion and removal from the chuck and to prevent corrosion.
- **Inspection:** Regularly inspect the carbide tip for signs of wear, chipping, or damage. Inspect the shank for bends or cracks. Discard any damaged bits to prevent injury or poor performance.
- **Storage:** Store drill bits in a dry environment to prevent rust. Keep them organized in a protective case to prevent damage to the tips and shanks.

6. Troubleshooting

Problem	Possible Cause	Solution
Bit not drilling effectively or slowly.	Worn or damaged carbide tip; incorrect drill mode; insufficient pressure; clogged flutes.	Replace bit if tip is worn; ensure rotary hammer is in hammer drill mode; apply steady, firm pressure; clear debris from hole and bit flutes.
Bit overheating.	Excessive continuous drilling; insufficient debris removal.	Allow bit to cool periodically; frequently withdraw bit to clear dust.
Bit getting stuck in material.	Drilling at an angle; material too hard for bit; insufficient debris removal.	Maintain perpendicular drilling; ensure bit is suitable for material; clear debris.
Bit wobbles in chuck.	Improperly seated bit; damaged SDS Plus shank.	Re-insert bit, ensuring chuck collar clicks; replace bit if shank is damaged. (Note: slight in-out play is normal for SDS Plus).

7. Specifications

- **Product Type:** Rotary Hammer Drill Bits
- **Quantity:** 10 Pieces
- **Diameter:** 3/8 inch
- **Length:** 8 inches
- **Shank Type:** SDS Plus
- **Material:** Metal with Carbide Tip
- **Finish Type:** Uncoated
- **Recommended Use:** Concrete, Masonry, Wall, Brick, Stone
- **Manufacturer:** OXTUL
- **ASIN:** B07DW5LM5G

8. Support

For further assistance or inquiries regarding your OXTUL drill bits, please contact the manufacturer directly through their official channels or refer to the retailer's support information.
You can visit the OXTUL Store for more product information: OXTUL Store on Amazon