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DEWALT DW5402

DEWALT DW5402 3/16" Rock Carbide SDS Plus Hammer Bit

INSTRUCTION MANUAL

1. Introduction and Overview

This manual provides essential information for the safe and effective use of your DEWALT DW5402 3/16" Rock Carbide SDS Plus Hammer Bit. This bit is designed for drilling small holes in various masonry materials, including concrete, rock, and artificial stone. Its construction features an elongated four-flute helix for efficient material removal and three flats on the shank to prevent slippage in the chuck.





Image 1: DEWALT DW5402 3/16" Rock Carbide SDS Plus Hammer Bit.

2. Product Features

- **ROCK CARBIDE Tip:** Maximizes carbide surface contact for extended bit life.
- **Innovative Tip Design:** Reduces bit walking and enhances drilling accuracy.
- **Four-Flute Helix:** Cleans debris efficiently for fast and effective drilling.
- **Shank with Three Flats:** Prevents the bit from slipping in the chuck, ensuring secure operation.



Image 2: Illustration of the tapered core design for strength and resistance to breaks, especially during deep drilling.



Image 3: Depiction of the 2-stage flute design with variable helix pattern for fast drilling speeds and aggressive material removal.



Image 4: Visual of two sharp cutting edges delivering true, clean holes for secure anchor installations.

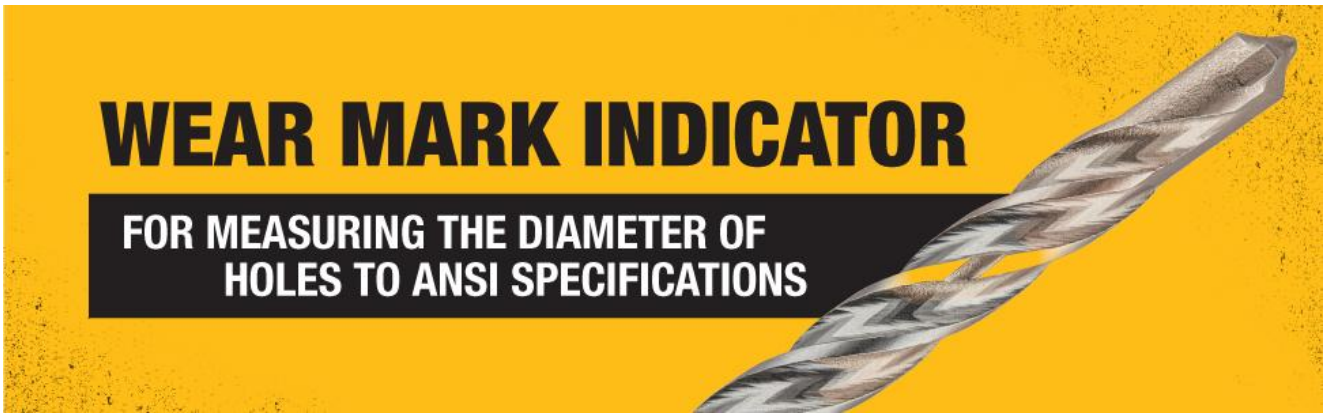


Image 5: Close-up of the wear mark indicator on the drill bit, used for measuring hole diameter to ANSI specifications.

3. Safety Information

Always prioritize safety when using power tools and accessories. Failure to follow these instructions may result in serious injury.

- **Eye Protection:** Always wear ANSI-approved safety glasses or goggles.
- **Hearing Protection:** Use hearing protection, especially during prolonged use of hammer drills.
- **Respiratory Protection:** Wear a dust mask when drilling masonry to avoid inhaling airborne particles.
- **Hand Protection:** Wear appropriate work gloves to protect hands from debris and vibration.
- **Secure Workpiece:** Ensure the material being drilled is stable and securely clamped.

- **Tool Compatibility:** Use this SDS Plus bit only with rotary hammer drills designed for SDS Plus shanks.
- **Inspect Bit:** Before each use, inspect the bit for damage, cracks, or excessive wear. Do not use damaged bits.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

4. Setup and Installation

1. **Select Correct Bit:** Ensure the 3/16" DW5402 bit is the appropriate size for your application.
2. **Clean Shank:** Wipe the SDS Plus shank of the bit clean to remove any dust or debris.
3. **Insert into Chuck:** Pull back the collar on your SDS Plus rotary hammer drill's chuck. Insert the bit fully into the chuck until it clicks into place.
4. **Verify Engagement:** Release the collar and gently pull on the bit to ensure it is securely locked. The bit should have a slight amount of play (in-and-out movement) which is normal for SDS Plus systems.

5. Operating Instructions

1. **Mark Drilling Location:** Clearly mark the precise spot where you intend to drill.
2. **Position Drill:** Hold the rotary hammer drill firmly with both hands. Position the tip of the bit directly on the marked spot.
3. **Start Drilling:** Begin drilling at a low speed to create a pilot indentation, preventing the bit from wandering.
4. **Increase Speed and Pressure:** Once the bit has started, increase the drill 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.
5. **Clear Debris:** The four-flute design helps clear debris. For deeper holes, periodically withdraw the bit slightly to further aid in debris removal and prevent clogging.
6. **Maintain Straight Angle:** Keep the drill bit perpendicular to the surface to ensure a straight hole.
7. **Finish Drilling:** Once the desired depth is reached, withdraw the bit from the hole while the drill is still running to clear any remaining debris.

6. Maintenance

- **Cleaning:** After each use, clean the bit to remove dust and debris. A wire brush can be used for the flutes.
- **Lubrication:** Periodically apply a small amount of SDS grease to the shank of the bit to ensure smooth operation and prevent wear in the chuck.
- **Inspection:** Regularly inspect the carbide tip for chipping or excessive wear. Check the flutes for damage. A worn or damaged bit will reduce drilling efficiency and can cause strain on your drill.
- **Storage:** Store bits in a dry location to prevent rust. Use a bit case or organizer to protect the tips from damage.

7. Troubleshooting

- **Bit Not Drilling Effectively:**
    - Check if the drill is set to hammer drill mode.

- Inspect the bit for wear; a dull or chipped carbide tip will not cut efficiently. Replace if necessary.
- Ensure sufficient pressure is applied, but avoid excessive force.

- **Bit Getting Stuck:**
  - Withdraw the bit periodically to clear debris from the hole.
  - Ensure the drill is running at an appropriate speed for the material.
- **Bit Slipping in Chuck:**
  - Ensure the SDS Plus shank is clean and free of grease or debris before insertion.
  - Verify the chuck collar is fully engaged after inserting the bit.

8. Specifications

Model Number	DW5402
Brand	DEWALT
Cutting Diameter	3/16 inches (0.19 inches)
Shank Type	SDS Plus
Material	Rock Carbide Tip, Blend
Tool Flute Type	Spiral (Four Flute)
Point Style	Taper Point
Product Dimensions (L x W x H)	1.88 x 0.5 x 9.13 inches
Item Weight	1.44 ounces
UPC	028874054028

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your DEWALT DW5402 SDS Plus Hammer Bit, please refer to the official DEWALT website or contact DEWALT customer service directly. Keep your purchase receipt as proof of purchase.

You can visit the official DEWALT store for more information:DEWALT Store

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