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Makita B-59003

Makita B-59003 SDS-Plus Drill Bit Set User Manual

Model: B-59003 | Brand: Makita

Introduction

The Makita B-59003 Nemesis II drill bits are engineered for professional use with SDS-Plus hammer drills. Designed to excel in the hardest natural stone, these bits feature a unique symmetrical head geometry for precise drilling. They are proven to drill up to 50 percent more holes compared to standard rotary hammer drill bits, offering superior performance and longevity.

Product Features

- **Drills More Precisely:** Symmetrical head geometry ensures accurate hole drilling.
- **Longer Lasting:** Enhanced durability for extended use.
- **High Volume Flute Geometry:** Optimizes the removal of drilling dust for cleaner, more efficient work.
- **One-Piece Solid Carbide Head:** Provides optimum drilling performance and strength.
- **Versatile Application:** Ideal for critical anchor fixings and situations requiring precise spot drilling.

Package Contents



Image: The Makita B-59003 SDS-Plus drill bit set, showing five drill bits in their retail packaging. The packaging lists the sizes included.

The Makita B-59003 SDS-Plus drill bit set typically includes the following sizes:

- 1 x 5.5mm x 110mm SDS-Plus Drill Bit
- 1 x 6mm x 160mm SDS-Plus Drill Bit
- 1 x 7mm x 110mm SDS-Plus Drill Bit
- 1 x 7mm x 160mm SDS-Plus Drill Bit
- 1 x 8mm x 160mm SDS-Plus Drill Bit

Setup

Installing the Drill Bit

These drill bits are designed for use with SDS-Plus rotary hammer drills. Always refer to your drill's instruction manual for specific safety and installation procedures.

1. **Safety First:** Ensure your rotary hammer drill is unplugged or its battery is removed before installing or removing any accessories. Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
2. **Clean Shank:** Inspect the SDS-Plus shank of the drill bit. Ensure it is clean and free from debris or rust.
3. **Insert Bit:** Pull back the chuck collar on your SDS-Plus rotary hammer drill. Insert the drill bit shank into the chuck until it clicks into place.
4. **Verify Seating:** Release the chuck collar. Gently pull on the drill bit to ensure it is securely locked. There should be a slight amount of play (in-and-out movement) which is normal for SDS-Plus systems and allows for the hammering action.
5. **Select Mode:** Set your rotary hammer drill to the appropriate mode for drilling (e.g., rotary hammer mode for masonry, rotary only for wood/metal if using adapters).

Operating Instructions

General Drilling Guidelines

- **Material Suitability:** These bits are specifically designed for drilling in masonry, concrete, and natural stone. Do not use them for drilling into metal or wood unless specifically designed for such applications (which these are not).
- **Pilot Hole:** For very precise holes or hard materials, consider starting with a smaller diameter bit (pilot hole) before using the final desired size, though the Nemesis II bits are designed for precision from the start.
- **Consistent Pressure:** Apply steady, consistent pressure during drilling. Avoid excessive force, which can lead to overheating and premature wear of the bit.
- **Clear Debris:** The high volume flute geometry helps clear dust, but periodically withdraw the bit slightly from the hole to allow for better dust evacuation, especially in deep holes.
- **Cooling:** For prolonged drilling, allow the bit to cool periodically to prevent overheating. While these bits are robust, extreme heat can reduce their lifespan.
- **Depth Control:** Use the depth stop on your rotary hammer drill to ensure consistent drilling depth.

Maintenance

Cleaning and Storage

- **Cleaning:** After each use, wipe down the drill bits with a clean cloth to remove dust and debris. For stubborn residue, a mild solvent can be used, ensuring it does not damage the carbide tip.
- **Lubrication:** A light coat of oil on the SDS-Plus shank can help prevent rust and ensure smooth insertion into the drill chuck.

- **Inspection:** Regularly inspect the carbide tip for signs of wear, chipping, or damage. A damaged tip will significantly reduce drilling performance.
- **Storage:** Store drill bits in their original case or a dedicated tool box to protect them from damage and corrosion. Keep them in a dry environment.
- **Sharpening:** Carbide-tipped masonry bits are generally not sharpened by the user. Replace bits when they become dull or damaged.

Troubleshooting

Problem	Possible Cause	Solution
Drill bit not cutting effectively.	Dull or damaged carbide tip; incorrect drill mode; insufficient pressure.	Inspect bit for damage and replace if necessary. Ensure drill is in rotary hammer mode. Apply consistent, firm pressure.
Excessive dust buildup in hole.	Deep hole without clearing; material type.	Periodically withdraw the bit from the hole to allow dust to escape.
Bit overheating.	Continuous drilling without breaks; excessive pressure.	Allow the bit to cool down during prolonged use. Reduce excessive pressure.
Bit stuck in chuck.	Debris in chuck; lack of lubrication on shank.	Clean the chuck and bit shank. Apply a light coat of oil to the shank. Refer to drill manual for chuck maintenance.

Specifications

Attribute	Detail
Model Number	B-59003
Manufacturer	Makita
Material	Carbide
Shank Type	SDS-Plus
Cutting Angle	135 Degrees
Included Sizes	5.5mm x 110mm, 6mm x 160mm, 7mm x 110mm, 7mm x 160mm, 8mm x 160mm

Warranty and Support

Makita products are manufactured to high standards and undergo rigorous quality control. For specific warranty information regarding your B-59003 SDS-Plus drill bit set, please refer to the documentation provided with your purchase or visit the official Makita website. For technical support, product inquiries, or service, please contact Makita customer service or an authorized Makita service center.

Official Website: www.makita.com

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