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> Makita B-57978 Nemesis2 SDS Plus Drill Bit User Manual

Makita B-57978

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Model: B-57978 | Size: 6mm x 165mm

INTRODUCTION

This user manual provides essential information for the safe and effective use of your Makita B-57978 Nemesis2 SDS Plus Drill Bit. Please read this manual thoroughly before operation and retain it for future reference. The Makita Nemesis2 SDS Plus drill bit is engineered for superior performance and durability in demanding drilling applications.

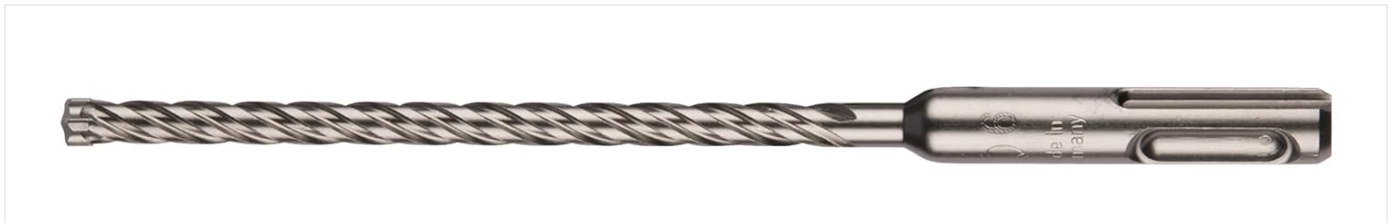


Image: The Makita B-57978 Nemesis2 SDS Plus Drill Bit, showcasing its spiral flute and SDS Plus shank.

PRODUCT OVERVIEW

The Makita B-57978 is a high-performance SDS Plus drill bit designed for efficient drilling in concrete, masonry, and other hard materials. It features high-grade carbide tips for extended durability and a specialized flute design for optimal dust removal.

Key Features:

- **High-grade Carbide Tips:** Ensures longer durability and superior drilling performance.
- **SDS Plus Shank:** Provides secure grip and efficient power transfer in SDS Plus rotary hammers.
- **Optimized Flute Design:** Facilitates rapid debris removal, reducing friction and heat buildup.
- **Material:** Constructed from durable alloy steel for robust performance.
- **Cutting Diameter:** 6mm (0.24 inches)

- **Length:** 165mm (6.5 inches)





Image: The Makita B-57978 drill bit presented in its retail packaging, highlighting key specifications.



Image: Detailed view of the drill bit's carbide tip and the SDS Plus shank, showing its unique design for secure fitting.

SETUP AND INSTALLATION

Proper installation of the drill bit is crucial for safety and optimal performance.

1. **Safety First:** Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, before handling power tools and drill bits.
2. **Select the Right Tool:** Ensure you are using a rotary hammer drill compatible with SDS Plus shank bits.
3. **Clean the Shank:** Before insertion, inspect the SDS Plus shank of the drill bit for any debris or damage. Clean if necessary.
4. **Insert the Bit:** Pull back the chuck collar on your rotary hammer drill. Insert the SDS Plus shank of the drill bit into the chuck until it clicks into place.
5. **Verify Secure Fit:** Gently pull on the drill bit to ensure it is securely locked in the chuck. There should be a slight amount of play, which is normal for SDS Plus systems to allow for hammer action.

OPERATING INSTRUCTIONS

Follow these guidelines for effective and safe drilling operations.

1. **Mark the Drilling Location:** Clearly mark the precise spot where you intend to drill.
2. **Set Drill Mode:** Set your rotary hammer drill to the appropriate mode (hammer drilling for concrete/masonry, or rotary only for softer materials if applicable).
3. **Start Drilling:** Position the drill bit perpendicular to the surface. Apply steady, firm pressure and begin drilling. Allow the drill bit and tool to do the work; excessive force is not required and can damage the bit or tool.
4. **Maintain Straightness:** Keep the drill bit straight and avoid wobbling to prevent premature wear and ensure a clean hole.
5. **Clear Debris:** For deeper holes, periodically withdraw the drill bit slightly to allow debris to clear from the flutes.

6. **Cool Down:** If drilling for extended periods, allow the drill bit to cool down periodically to prevent overheating, which can reduce its lifespan.



Image: The Makita Nemesis2 drill bit actively drilling into a concrete surface, demonstrating its application.

MAINTENANCE AND CARE

Proper maintenance extends the life of your drill bit and ensures consistent performance.

- **Cleaning:** After each use, wipe the drill bit clean of dust and debris. A wire brush can be used for stubborn residue.
- **Lubrication:** Apply a thin coat of light oil to the shank and flutes to prevent rust, especially if storing for long periods.
- **Inspection:** Regularly inspect the carbide tip for signs of wear, chipping, or damage. A dull or damaged tip will reduce drilling efficiency and can lead to overheating.
- **Storage:** Store the drill bit in a dry place, preferably in its original packaging or a drill bit case, to protect it from damage and corrosion.

TROUBLESHOOTING

Common issues and their solutions:

Problem	Possible Cause	Solution
Drill bit not cutting effectively	Dull or damaged carbide tip; incorrect drill mode; insufficient pressure.	Inspect tip for damage; ensure hammer drilling mode is engaged for masonry; apply steady, firm pressure. Replace bit if tip is severely worn.
Excessive heat or smoke	Overheating due to continuous drilling; insufficient debris removal; dull bit.	Allow bit to cool; periodically withdraw bit to clear debris; replace dull bit.
Bit getting stuck in material	Debris buildup in hole; bit binding due to incorrect angle.	Withdraw bit to clear debris; ensure bit is held straight and perpendicular to surface.
Bit not locking into chuck	Debris in chuck or on shank; damaged chuck or shank.	Clean chuck and bit shank; inspect for damage. Consult tool manual if chuck is faulty.

SPECIFICATIONS

Detailed specifications for the Makita B-57978 Nemesis2 SDS Plus Drill Bit:

Attribute	Detail
Model Number	B-57978
Brand	Makita
Shank Type	SDS Plus shank
Cutting Diameter	6 mm (0.24 inches)
Overall Length	165 mm (6.5 inches)
Material	Alloy Steel

Attribute	Detail
Tip Material	High-grade Carbide
Finish Type	Carbide
Cutting Angle	90 Degrees
First Available Date	December 16, 2017

WARRANTY AND SUPPORT

Makita products are manufactured to high standards and undergo rigorous quality control. For specific warranty information regarding your drill bit, please refer to the documentation included with your purchase or visit the official Makita website. Drill bits are consumable items and their lifespan depends on usage conditions and material drilled. For technical support or inquiries, please contact Makita customer service or visit the [Makita Official Store on Amazon](#).

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