Makita B-69565

Makita 4" Diamond Blade User Manual

Model: B-69565

1. Introduction

This manual provides essential information for the safe and effective use of the Makita B-69565 4" Continuous Rim Diamond Blade. This blade is specifically designed for general purpose cutting applications on materials such as porcelain, stone, and tile. Its continuous rim design ensures constant contact with the material, resulting in a smoother finish compared to segmented or turbo blades. Please read this manual thoroughly before operation to ensure proper usage and to maximize the blade's performance and lifespan.



Figure 1.1: Makita B-69565 4" Continuous Rim Diamond Blade

This image displays the Makita B-69565 diamond blade, highlighting its 4-inch diameter, continuous rim, and specifications for ceramic/granite cutting. The blade features a teal and silver design with Makita branding and warnings for eye protection.

2. Safety Information

WARNING: Always wear appropriate personal protective equipment (PPE) when operating power tools and using cutting blades. Failure to do so may result in serious injury.

- **Eye Protection:** Always wear safety goggles or safety glasses with side shields that comply with ANSI Z87.1.
- **Hand Protection:** Wear heavy-duty work gloves to protect hands from sharp edges and debris.
- **Respiratory Protection:** When cutting materials that produce dust, wear a dust mask or respirator.
- **Hearing Protection:** Use ear protection (earplugs or earmuffs) to prevent hearing damage from prolonged noise exposure.

- **Tool Compatibility:** Ensure the blade's maximum RPM (15,300 RPM) is compatible with your power tool's specifications. Never exceed the maximum RPM rating of the blade.
- **Secure Workpiece:** Always secure the material being cut to prevent movement during operation.
- **Inspect Blade:** Before each use, inspect the blade for any cracks, chips, or damage. Do not use a damaged blade.
- **Proper Mounting:** Ensure the blade is correctly mounted and tightened on the tool's arbor according to the tool's instruction manual.
- **Wet/Dry Use:** This blade is designed for both wet and dry cutting. For wet cutting, ensure proper water flow to cool the blade and control dust.



Figure 2.1: Safety Icons on Product Packaging

This image shows the back of the Makita diamond blade packaging, featuring various safety icons. These icons include warnings for maximum RPM (15,300), arbor size (5/8"), wet/dry use, safety gloves, steel-toe boots, manual consultation, and safety goggles, reinforcing the importance of PPE and proper usage.

3. Setup

1. **Unpack the Blade:** Carefully remove the diamond blade from its packaging. Inspect it for any shipping damage.
2. **Consult Tool Manual:** Refer to your power tool's instruction manual for specific blade installation procedures. This blade is compatible with tools designed for 4-inch (105mm) blades with a 5/8" arbor.
3. **Disconnect Power:** Before installing or removing any blade, ensure the power tool is unplugged or its battery pack is removed to prevent accidental startup.
4. **Clean Arbor and Flanges:** Ensure the tool's arbor and mounting flanges are clean and free of debris or rust.
5. **Mount the Blade:** Place the diamond blade onto the tool's arbor, ensuring it is seated correctly and the rotation arrow on the blade matches the direction of rotation of the tool.
6. **Secure the Blade:** Install the outer flange and tighten the arbor nut securely using the appropriate wrench. Do not overtighten.
7. **Test Spin:** Once installed, briefly spin the blade by hand to ensure it rotates freely and without wobble.



Figure 3.1: Product Packaging Front

This image shows the front of the Makita diamond blade packaging, displaying the blade within its clear plastic casing. Key features like "4X Longer Life" and "Continuous Rim for Precise Cuts" are visible, along with indications for ceramic/granite compatibility and wet/dry cutting.

4. Operating

General Cutting Guidelines:

- **Start Slowly:** Begin cutting by gently bringing the spinning blade into contact with the material.

- **Consistent Pressure:** Apply steady, consistent pressure. Avoid forcing the blade, as this can lead to overheating, premature wear, and chipping.
- **Maintain Contact:** The continuous rim design performs best with constant contact, providing a smoother finish.
- **Cooling (Wet Cutting):** For optimal performance and blade life, especially when cutting hard materials like porcelain or stone, use wet cutting methods. Ensure a continuous flow of water to the cutting area to cool the blade and flush away debris.
- **Dry Cutting:** When dry cutting, make shallow passes and allow the blade to cool periodically by running it freely in the air. Avoid prolonged dry cutting without cooling breaks.
- **Straight Cuts:** Guide the tool along a straight line. Avoid twisting or bending the blade during a cut.
- **Cutting Curves:** For curved cuts, make a series of straight relief cuts first, then carefully connect them.

5. Maintenance

- **Cleaning:** After each use, especially after wet cutting, clean the blade to remove any accumulated slurry or debris. A stiff brush and water can be used. Ensure the blade is dry before storage to prevent rust.
- **Inspection:** Regularly inspect the blade for signs of wear, such as a dull cutting edge, cracks, or segment loss. A worn blade will cut slower and may cause chipping.
- **Storage:** Store the diamond blade in a dry, protected area to prevent damage and corrosion. Keep it in its original packaging or a blade storage case if available.
- **Dressing the Blade:** If the blade's cutting performance decreases, it may need to be