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DEWALT DW8063

DEWALT DW8063 Abrasive Metal/INOX Cutting Wheel User Manual

Model: DW8063



Official DEWALT Product Documentation

Introduction

This manual provides essential information for the safe and effective use of the DEWALT DW8063 5-Inch by .045-Inch by 7/8-Inch A60T Abrasive Metal/INOX Cutting Wheel. This wheel is designed for heavy-duty, fast cutting in ferrous metals and stainless steel (INOX). Please read this manual thoroughly before use to ensure proper operation and safety.
Key features include:

- Thin .045" wheel design for fast, burr-free cutting.
- Proprietary aluminum oxide grain combination for aggressive cutting action.
- Proprietary material mix ensuring durable, long-life wheels.
- Two full sheets of fiberglass for enhanced durability and safety.

Safety Information

WARNING: Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, and gloves when operating cutting tools and abrasive wheels. Refer to your power tool's instruction manual for additional safety guidelines.
Observe all safety warnings and instructions provided by the power tool manufacturer. Improper use of abrasive wheels can result in serious injury.

- Inspect the wheel for damage before each use. Do not use cracked or damaged wheels.
- Ensure the wheel's maximum RPM rating is greater than or equal to the power tool's maximum RPM.
- Always use a guard on your power tool.
- Do not apply excessive pressure; let the wheel do the cutting.
- Avoid side grinding with cut-off wheels.
- Store wheels in a dry, protected area to prevent damage.

For more detailed abrasive safety information, visitdewalt.com/abrasive-safety.



Image: The DEWALT DW8063 cutting wheel, showing its dimensions (5" x .045" x 7/8"), A60T abrasive type, maximum RPM of 12,250, and various safety pictograms including eye protection, hearing protection, gloves, and no side grinding.

Setup and Installation

1. **Power Tool Compatibility:** Ensure your power tool (e.g., angle grinder, chop saw) is compatible with a 5-inch diameter cutting wheel and has a 7/8-inch arbor hole. The maximum RPM of your tool must not exceed the wheel's maximum RPM of 12,250.
2. **Disconnect Power:** Always disconnect the power tool from its power source before attempting to install or remove any accessories.
3. **Inspect Wheel:** Before mounting, carefully inspect the DEWALT DW8063 wheel for any signs of damage, cracks, or deformities. A damaged wheel can shatter during use, causing serious injury.
4. **Mounting:**

- Place the inner flange onto the tool's spindle.
- Position the cutting wheel onto the spindle, ensuring it sits flush against the inner flange. The wheel should fit snugly without excessive play.
- Install the outer flange and tighten the spindle nut securely using the appropriate wrench. Do not overtighten.

5. **Guard Adjustment:** Ensure the tool's guard is properly installed and adjusted to provide maximum protection during operation.
6. **Test Run:** Before cutting, perform a brief test run of the tool without engaging the workpiece to ensure the wheel runs true and there is no excessive vibration.

Operating Instructions

The DEWALT DW8063 cutting wheel is designed for efficient cutting of metal and INOX materials. Follow these guidelines for optimal performance and safety:

1. **Secure Workpiece:** Always secure the workpiece firmly in a vise or with clamps to prevent movement during cutting.
2. **Proper Stance:** Maintain a balanced and stable stance. Keep your body clear of the cutting path.
3. **Starting the Cut:** Allow the wheel to reach full operating speed before making contact with the workpiece.
4. **Cutting Technique:**
   - Apply steady, moderate pressure. Do not force the wheel into the material. The thin design allows for fast cutting with less effort.
   - Cut in a straight line. Avoid bending or twisting the wheel during the cut, as this can cause the wheel to bind or shatter.
   - For thicker materials, make multiple passes if necessary, allowing the wheel to cool between passes.
5. **Avoid Side Grinding:** This wheel is specifically designed for cutting. Do not use the side of the wheel for grinding or deburring, as this can weaken the wheel and lead to breakage.
6. **Cooling:** For prolonged cuts, allow the wheel to cool periodically. Overheating can reduce wheel life and performance.
7. **Finishing the Cut:** Once the cut is complete, allow the wheel to stop rotating before setting the tool down.

Maintenance and Storage

Proper maintenance and storage will extend the life of your DEWALT DW8063 cutting wheels and ensure safe operation.

- **Inspection:** Regularly inspect wheels for wear, cracks, chips, or any other damage. Discard any damaged wheels immediately.
- **Cleaning:** Keep wheels free from grease, oil, and debris. A clean wheel performs better and lasts longer.
- **Storage:** Store cutting wheels in a dry, cool place, away from direct sunlight and moisture. Moisture can degrade the bonding agents in the wheel, leading to premature failure.
- **Protection:** Store wheels flat or on a spindle to prevent warping or damage to the arbor hole. Keep them in their original packaging or a protective container.
- **Handling:** Handle wheels carefully to avoid dropping or impacting them, which can cause unseen damage.

Troubleshooting

Problem	Possible Cause	Solution
Slow Cutting / Excessive Heat	• Insufficient pressure • Worn wheel • Incorrect wheel for material • Overheating	• Apply steady, moderate pressure. • Replace the wheel if worn. • Ensure wheel is rated for metal/INOX. • Allow wheel to cool between cuts.
Wheel Wobbles / Vibrates	• Improperly mounted wheel • Damaged wheel • Damaged tool spindle/flanges	• Re-mount wheel securely. • Replace damaged wheel. • Inspect tool components for damage.
Premature Wheel Wear	• Excessive pressure • Side grinding • Improper storage (moisture)	• Reduce cutting pressure. • Only use for straight cutting. • Store in a dry environment.

Specifications

Attribute	Detail
Model Number	DW8063
Diameter	5 inches (125 mm)
Thickness	.045 inches (1.2 mm)
Arbor Size	7/8 inches (22.2 mm)
Abrasive Type	A60T (Aluminum Oxide)
Maximum RPM	12,250 RPM
Material Compatibility	Ferrous Metals, Stainless Steel (INOX)
Reinforcement	Double reinforcement with two sheets of fiberglass
Product Dimensions (Packaging)	4 x 4 x 0.75 inches; 1.12 ounces

Warranty and Support

DEWALT products are manufactured to high quality standards. For information regarding product warranty, service, or technical support, please visit the official DEWALT website or contact their customer service department.
You can find more information and contact details on the official DEWALT store page:DEWALT Store on Amazon.

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