DEWALT DT3715-QZ

DEWALT DT3715 Diamond Cutting Disc User Manual

Model: DT3715-QZ | Brand: DEWALT

1. Introduction

This manual provides essential information for the safe and effective use of your DEWALT DT3715 Diamond Cutting Disc. Designed for precision cutting of various hard materials, this disc offers durability and performance when used correctly. Please read these instructions thoroughly before operation and retain them for future reference.

2. Safety Information

Always prioritize safety when working with cutting tools. Failure to follow these safety guidelines may result in serious injury or damage to the disc and equipment.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, dust mask, and heavy-duty gloves.
- **Tool Compatibility:** Ensure the cutting disc is compatible with your power tool (e.g., angle grinder, tile saw) in terms of diameter, bore size, and maximum RPM. The DEWALT DT3715 disc has a diameter of 110mm and a 20mm bore.
- **Inspect Disc:** Before each use, inspect the diamond cutting disc for any signs of damage, cracks, or deformation. **NEVER USE A DAMAGED DISC.**
- **Correct Mounting:** Mount the disc securely onto the power tool spindle, ensuring it is properly seated and tightened according to the tool manufacturer's instructions.
- **Direction of Rotation:** Ensure the disc's rotation direction matches the arrow on the disc and the power tool.
- **Workpiece Security:** Secure the workpiece firmly to prevent movement during cutting.
- **Ventilation:** Work in a well-ventilated area to minimize inhalation of dust.
- **Avoid Overloading:** Do not force the disc into the material. Allow the disc to cut at its own pace. Excessive pressure can cause overheating, damage, and reduced lifespan.
- **Cooling:** For wet cutting applications, ensure adequate water flow to cool the disc and reduce dust.
- **Storage:** Store discs in a dry, safe place, protected from impact and extreme temperatures.

3. Components

The DEWALT DT3715 Diamond Cutting Disc package includes:

- One (1) DEWALT DT3715 Diamond Cutting Disc



This image displays the DEWALT DT3715 diamond cutting disc. The disc is yellow with black text, indicating its model number DT3715, diameter Ø110 x 20mm bore, maximum RPM of 13,900 min-1, and maximum speed of 80 m/s. It also shows compliance with EN13236 standard and safety pictograms.

4. Setup

1. **Power Tool Preparation:** Ensure your power tool is unplugged or its battery is removed before attempting to change or install the cutting disc.
2. **Guard Installation:** Verify that the safety guard on your power tool is correctly installed and adjusted to provide maximum protection.
3. **Disc Mounting:**
    - Place the inner flange onto the tool's spindle.
    - Position the DEWALT DT3715 diamond cutting disc onto the spindle, ensuring the bore (20mm) fits correctly and the rotation arrow on the disc aligns with the tool's rotation direction.
    - Install the outer flange and tighten the locking nut securely using the appropriate wrench. Do not overtighten.
4. **Test Run:** Before cutting, run the tool at operating speed for approximately 30 seconds in a safe area to ensure the disc is properly mounted and balanced. Listen for unusual noises or vibrations.

5. Operating Instructions

Follow these steps for optimal performance and safety when using your DEWALT DT3715 Diamond Cutting Disc:

1. **Material Suitability:** This diamond disc is designed for cutting hard materials such as granite, porcelain, ceramic tiles, and other masonry products.
2. **Cutting Technique:**
    - Start the power tool before making contact with the workpiece.
    - Apply steady, moderate pressure. Let the disc do the work.
    - For dry cutting, make shallow passes to prevent overheating. Allow the disc to cool periodically.

    - For wet cutting, ensure a continuous flow of water to the cutting area. This reduces dust, cools the disc, and extends its life.
    - Avoid twisting or bending the disc during a cut, as this can cause damage or kickback.
3. **Dust Management:** When dry cutting, use a dust extraction system if available, or work outdoors with appropriate respiratory protection.
4. **Finishing Cuts:** For precise or delicate cuts, consider using a guide or jig to maintain a straight line.

6. Maintenance

Proper maintenance ensures the longevity and performance of your diamond cutting disc.

- **Cleaning:** After each use, clean the disc to remove any accumulated debris or material residue. A stiff brush can be used.
- **Inspection:** Regularly inspect the disc for wear, cracks, or segment loss. Replace the disc if any damage is observed.
- **Sharpening (Dressing):** If the disc's cutting performance decreases, it may be "glazed" or "blunt." This can often be remedied by making a few cuts into an abrasive material like an old concrete block or a dressing stone. This exposes new diamond particles.
- **Storage:** Store the disc flat in its original packaging or a protective case in a dry environment to prevent damage and corrosion.

7. Troubleshooting

Problem	Possible Cause	Solution
Disc not cutting efficiently / Slow cutting	Disc is glazed or blunt; incorrect disc for material; insufficient power from tool.	Dress the disc by cutting into an abrasive material. Ensure disc is suitable for the material. Check tool power.
Excessive dust during dry cutting	Lack of dust extraction; cutting too fast.	Use a dust extraction system or wet cutting. Reduce cutting speed. Wear a dust mask.
Disc overheating	Cutting too fast or with too much pressure; insufficient cooling (dry cutting).	Reduce cutting speed and pressure. Allow disc to cool. Use wet cutting if possible.
Excessive vibration or wobble	Disc not mounted correctly; damaged disc; worn tool spindle.	Re-mount disc securely. Inspect disc for damage and replace if necessary. Check tool spindle for wear.

8. Specifications

- **Model:** DT3715-QZ
- **Brand:** DEWALT
- **Type:** Diamond Cutting Disc
- **Material:** Diamond
- **Diameter:** 110mm (4.33 inches)
- **Bore Size:** 20mm (0.79 inches)

- **Thickness:** 1.6 mm (0.06 inches)
- **Maximum RPM:** 13,900 min^{-1}
- **Maximum Speed:** 80 m/s
- **Standard:** EN13236
- **Product Dimensions:** 6.38 x 5.31 x 0.59 inches (packaging)
- **Item Weight:** 0.09 Kilograms (3.17 ounces)
- **GTIN (UPC):** 05035048083116

9. Warranty and Support

For warranty information or technical support regarding your DEWALT DT3715 Diamond Cutting Disc, please refer to the documentation provided with your power tool or visit the official DEWALT website. You may also contact DEWALT customer service directly for assistance.
DEWALT Official Website: DEWALT Store on Amazon

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