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Evolution Power Tools T255TCT-70MS

Evolution T255TCT-70MS 255mm Thin Steel Circular Saw Blade Instruction Manual

Model: T255TCT-70MS | Brand: Evolution Power Tools

Introduction | Safety Information | Setup | Operating Instructions | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides essential information for the safe and effective use of your Evolution T255TCT-70MS 255mm Thin Steel Circular Saw Blade. This blade is specifically designed for cutting thin steel, offering rapid, efficient cuts without generating excessive heat, burrs, or sparks. Please read and understand all instructions before installation and operation.



Image 1.1: The Evolution T255TCT-70MS 255mm Thin Steel Circular Saw Blade.

2. Safety Information

WARNING: Always follow general power tool safety guidelines and specific instructions provided with your circular saw. Failure to do so may result in serious injury.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the blade is correctly installed and secured before operation.
- Verify the blade's maximum RPM rating matches or exceeds your saw's RPM.
- Never force the blade through material; allow the blade to cut at its own pace.
- Keep hands clear of the cutting area and rotating blade.
- Disconnect power before changing blades or performing maintenance.

- Ensure the workpiece is securely clamped to prevent movement during cutting.
- Do not use damaged or dull blades.

3. Setup and Installation

Proper installation of the saw blade is crucial for safe and effective operation. Refer to your circular saw's instruction manual for specific blade change procedures.

1. **Power Disconnection:** Ensure your circular saw is unplugged from the power source.
2. **Blade Removal:** If replacing an old blade, carefully remove it according to your saw's instructions. Use the provided wrench to loosen the arbor nut.
3. **Cleanliness:** Clean the arbor and blade flanges to ensure proper seating of the new blade.
4. **Blade Orientation:** Position the new Evolution T255TCT-70MS blade with the cutting direction arrows on the blade matching the rotation direction of your saw.
5. **Secure Installation:** Place the blade onto the arbor, ensuring it sits flush against the inner flange. Install the outer flange and tighten the arbor nut securely with the wrench. Do not overtighten.
6. **Guard Check:** Verify that all blade guards are functioning correctly and move freely.



Image 3.1: The Evolution T255TCT-70MS blade as supplied in its packaging.

The Evolution T255TCT-70MS blade is compatible with various Evolution circular saws, including models like R255 SMS, R255 SMS+, R255 SMS-DB, and RAGE 5-S. Always confirm compatibility with your specific saw model.



Image 3.2: Examples of Evolution circular saws compatible with 255mm blades.

Video: Blade Installation and Usage Overview

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Video 3.1: This video demonstrates the installation of an Evolution blade into a circular saw and shows various cutting applications on different materials. It highlights the clean cuts achieved with Evolution blades compared to abrasive methods.

4. Operating Instructions

The Evolution T255TCT-70MS blade is designed for cutting thin steel. Always ensure the material is appropriate for this blade type.

1. **Material Preparation:** Ensure the workpiece is clean, free of obstructions, and securely clamped to a stable surface.
2. **Cutting Depth:** Adjust the cutting depth of your circular saw so that the blade extends slightly below the workpiece.

3. **Starting the Cut:** Position the saw so the blade is clear of the workpiece. Start the saw and allow the blade to reach full speed before beginning the cut.
4. **Making the Cut:** Guide the saw smoothly and steadily through the material. Do not apply excessive pressure; let the blade do the work. Maintain a firm grip on the saw with both hands.
5. **Finishing the Cut:** Once the cut is complete, release the trigger and allow the blade to stop rotating before lifting the saw from the workpiece.

This blade is optimized for thin steel, providing clean, cool-to-touch cuts. Evolution offers a full range of blades for various materials, including mild steel, stainless steel, aluminum, and wood.



Image 4.1: Evolution offers a variety of blades for different materials, including thin steel, mild steel, stainless steel, aluminum, and wood.

5. Maintenance

Regular maintenance ensures optimal performance and extends the life of your blade.

- **Cleaning:** After each use, clean the blade to remove any accumulated debris, metal shavings, or resin. Use a suitable blade cleaner and a stiff brush.

- **Inspection:** Regularly inspect the blade for signs of wear, damage, or missing carbide tips. A dull or damaged blade can be dangerous and reduce cutting efficiency.
- **Storage:** Store the blade in its original packaging or a protective case in a dry, safe place to prevent damage and corrosion.
- **Sharpening:** If the blade becomes dull, have it professionally sharpened by a qualified service center. Do not attempt to sharpen carbide-tipped blades yourself unless you have the proper tools and expertise.

6. Troubleshooting

Problem	Possible Cause	Solution
Poor cut quality / Excessive burrs	Dull blade, incorrect feed rate, improper material for blade type.	Inspect blade for sharpness; reduce feed rate; ensure material is thin steel.
Blade overheating	Dull blade, excessive feed pressure, cutting too thick material.	Replace/sharpen blade; reduce feed pressure; verify material thickness.
Excessive vibration / Noise	Loose blade, damaged blade, bent arbor.	Check blade tightness; inspect blade for damage; consult saw manual for arbor issues.

7. Specifications

Model: T255TCT-70MS

Brand: Evolution Power Tools

Blade Diameter: 255 mm (10 inches)

Bore Size: 25.4 mm (1 inch)

Number of Teeth: 70

Material: Carbide, Metal Alloy Steel, Tungsten Carbide

Compatible Material: Thin Steel

Item Weight: 630 Grams

Country of Origin: China

UPC: 849713090911

8. Warranty & Support

Evolution Power Tools stands behind the quality of its products. This blade is covered by a **3-year warranty**, offering reliability and peace of mind. For warranty claims or technical assistance, please contact Evolution Power Tools customer support.

In-house support is available in the UK, USA, and France. For other regions, please refer to your local distributor for support options.



Image 8.1: Evolution Power Tools offers a 3-year warranty on its products.

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