

## TOMAX TMA71460

# TOMAX 7-1/4-Inch 60 Tooth TCG Aluminum and Non-Ferrous Metal Saw Blade

## User Manual

### 1. INTRODUCTION

Thank you for choosing the TOMAX 7-1/4-Inch 60 Tooth TCG Saw Blade. This high-performance blade is specifically designed for precise and efficient cutting of aluminum, plastic, and other non-ferrous metals. Its robust construction and specialized tooth geometry ensure clean cuts and extended durability.

#### Key Features:

- Ideal for cutting Plastic, Aluminum and Non-Ferrous Metals.
- Construction grade carbide teeth provide maximum resistance for longer life.
- Electrophoretic Coating reduces rusting and corrosion.
- All blades feature a 5/8-inch DMK arbor.

### 2. SAFETY INFORMATION

**WARNING: To reduce the risk of injury, always use ANSI Z87.1 eye protection as well as appropriate respiratory and hearing protection.**

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the saw is unplugged before installing or removing the blade.
- Verify the blade's maximum RPM rating is compatible with your saw's RPM.
- Always secure the workpiece firmly before cutting to prevent kickback.
- Keep hands and body clear of the blade's path.

- Do not use this blade for cutting ferrous metals (e.g., steel, iron) or wood.



Image: The TOMAX 7-1/4-Inch 60 Tooth TCG Saw Blade, highlighting the safety warnings printed on the blade surface.

### 3. SETUP AND INSTALLATION

#### Blade Compatibility

This blade features a 5/8-inch DMK arbor, making it compatible with most standard circular saws, miter saws, and table saws designed for 7-1/4-inch blades.

#### Installation Steps

1. **Disconnect Power:** Always unplug your saw from the power source before beginning installation.
2. **Remove Old Blade (if applicable):** Follow your saw's manufacturer instructions to safely remove the existing blade.
3. **Clean Arbor and Flanges:** Ensure the saw's arbor and blade flanges are clean and free of debris.

4. **Install New Blade:** Place the TOMAX blade onto the arbor, ensuring the teeth are oriented correctly for cutting (usually indicated by an arrow on the blade matching the saw's rotation direction).
5. **Secure Blade:** Reinstall the blade washer and arbor nut, tightening securely with the appropriate wrench. Do not overtighten.
6. **Check for Free Rotation:** Manually rotate the blade to ensure it spins freely without obstruction.



## Cutting the Aluminum

Image: A miter saw with the TOMAX 7-1/4-inch saw blade properly installed and ready for use.

## 4. OPERATING INSTRUCTIONS

### Compatible Materials

This blade is engineered for optimal performance when cutting:

- Aluminum (various alloys and profiles)
- Plastic (PVC, acrylic, etc.)
- Non-Ferrous Metals (copper, brass, etc.)

## Cutting Techniques

- **Secure Workpiece:** Always clamp the material firmly to the saw's fence or table to prevent movement during the cut. Loose material can cause kickback and damage to the blade or saw.
- **Slow and Steady Feed Rate:** For best results and to prolong blade life, use a consistent, slow feed rate. Do not force the blade through the material.
- **Lubrication (Optional for Metals):** For thicker aluminum or non-ferrous metals, applying a cutting lubricant (e.g., stick wax or cutting fluid) can help reduce heat buildup, improve cut quality, and extend blade life.
- **Clear Chips:** Ensure proper chip clearance. Excessive chip buildup can lead to overheating and poor cut quality.



Image: A close-up view of the TOMAX blade precisely cutting through an aluminum profile.

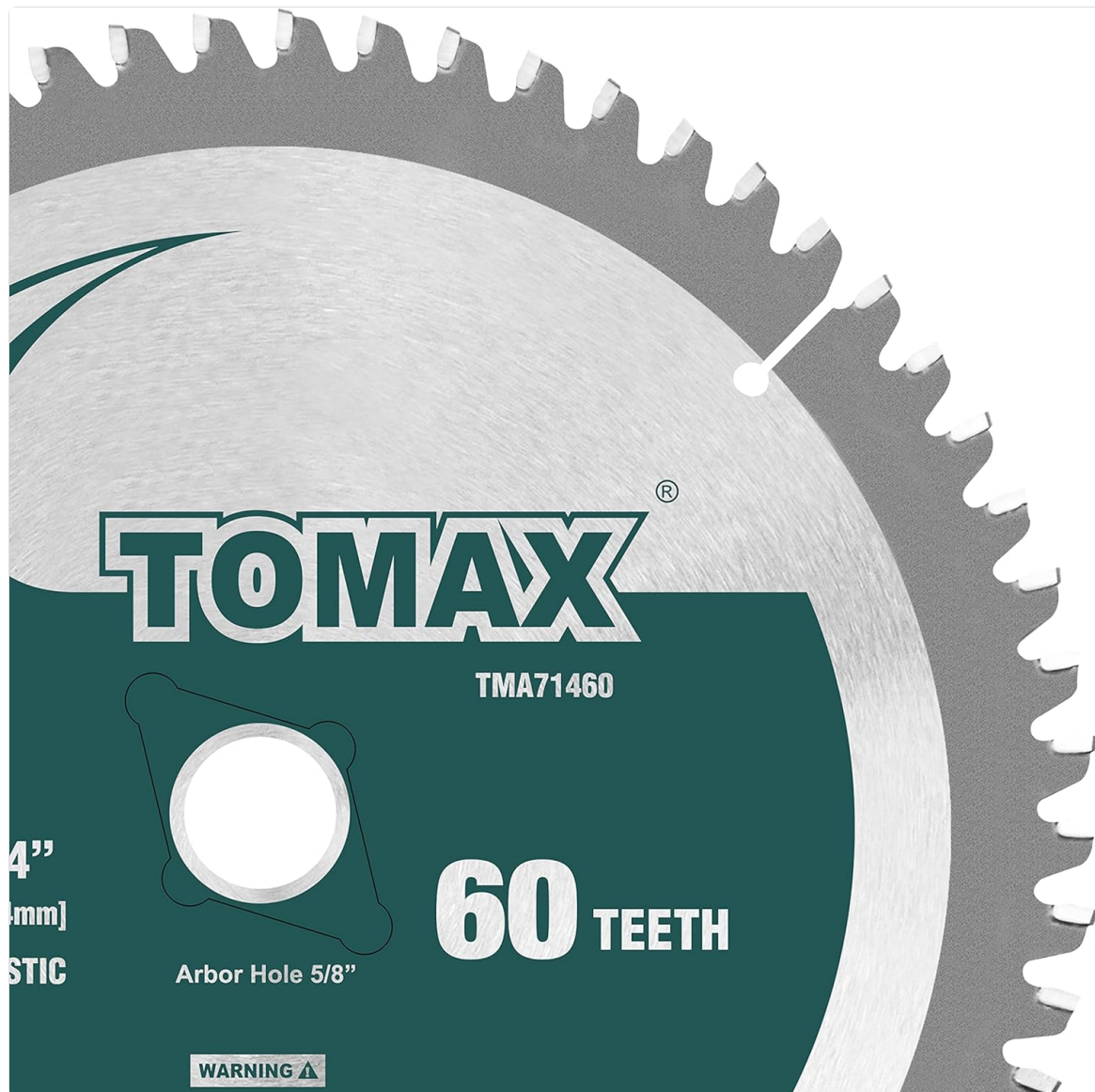


Image: Demonstrates the blade's capability for cutting various types of aluminum, resulting in clean, precise pieces.

## 5. MAINTENANCE AND CARE

- **Cleaning:** Regularly clean the blade to remove accumulated resin, pitch, or metal particles. Use a non-abrasive cleaner specifically designed for saw blades.
- **Inspection:** Before each use, inspect the carbide teeth for any signs of damage, dullness, or missing tips. A dull blade can lead to poor cuts and increased risk of kickback.
- **Storage:** Store the blade in a dry, protected area to prevent rust and damage to the teeth. Use a blade case or hang it securely.
- **Sharpening:** When the blade becomes dull, have it professionally sharpened by a qualified service to maintain its cutting performance and safety.

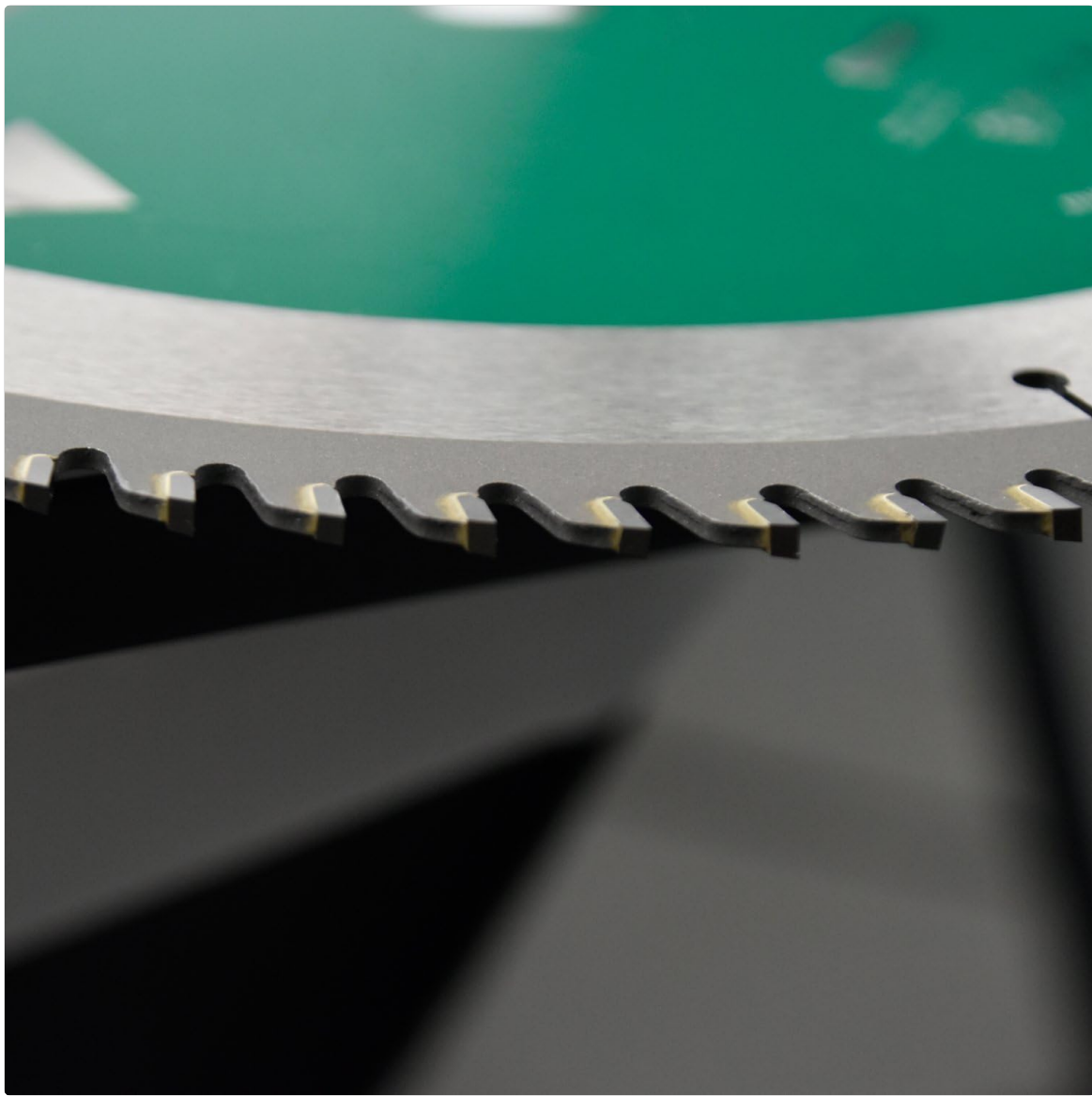


Image: A detailed close-up of the carbide teeth on the TOMAX saw blade, showing their construction.

## 6. TROUBLESHOOTING

| Problem                   | Possible Cause  | Solution  |
|---------------------------|---|---|
| Rough or Burred Cuts      | Dull blade, incorrect feed rate, material not clamped securely.                 | Sharpen or replace blade, reduce feed rate, ensure material is firmly clamped.                        |
| Excessive Vibration/Noise | Blade not properly seated, damaged blade, loose arbor nut.                      | Re-seat blade, inspect for damage and replace if necessary, tighten arbor nut.                        |
| Blade Overheating         | Too fast feed rate, dull blade, insufficient chip clearance.                    | Reduce feed rate, sharpen or replace blade, ensure saw's dust collection is effective.                |
| Blade Binding/Kickback    | Material not properly supported, forcing the cut, incorrect blade for material. | Ensure full material support, use a slow and steady feed, confirm blade is suitable for the material. |

## 7. SPECIFICATIONS

| Attribute            | Detail                                |
|----------------------|---------------------------------------|
| Brand                | TOMAX                                 |
| Model Number         | TMA71460                              |
| Size                 | 7-1/4 inches (184mm)                  |
| Number of Teeth      | 60                                    |
| Arbor Hole           | 5/8 inches (DMK)                      |
| Material             | Carbide                               |
| Compatible Materials | Aluminum, Plastic, Non-Ferrous Metals |
| Coating              | Electrophoretic Coating               |
| Item Weight          | 14.4 ounces                           |
| UPC                  | 712190580452                          |

## 8. WARRANTY AND SUPPORT

This TOMAX saw blade comes with a **Limited Lifetime Warranty** by TOMAX, ensuring quality and performance. For warranty claims, technical support, or any inquiries regarding your product, please contact TOMAX customer service through their official website or the retailer where the product was purchased.

Please retain your proof of purchase for warranty validation.