

EVOLUTION RAGE5-S

Evolution Power Tools Rage 5-S Multi-Material Table Saw Instruction Manual

Model: RAGE5-S | Brand: EVOLUTION

1. INTRODUCTION

This manual provides essential instructions for the safe operation, assembly, maintenance, and troubleshooting of your Evolution Power Tools Rage 5-S Multi-Material Table Saw. Please read this manual thoroughly before initial use to ensure proper function and to prevent injury or damage to the tool.

The Rage 5-S table saw is designed for cutting various materials including steel, aluminum, wood (even with embedded nails), and plastic, utilizing a single 10-inch TCT blade. Its portable design with a folding stand and wheels enhances convenience for transport and storage.



Figure 1.1: Evolution Rage 5-S Multi-Material Table Saw

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating power tools. Failure to follow these instructions may result in serious injury or property damage.

- **Personal Protective Equipment:** Always wear safety glasses, hearing protection, and a dust mask. Use appropriate clothing; avoid loose clothing or jewelry that could get caught in moving parts.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions. Do not operate the saw in damp or wet conditions. Keep children and bystanders away.
- **Electrical Safety:** Ensure the power supply matches the saw's requirements (120V). Do not use the saw with a damaged cord or plug. Avoid using extension cords unless absolutely necessary, and ensure they are rated for outdoor use and heavy-duty applications.
- **Blade Safety:** Always ensure the blade is sharp and correctly installed. Never attempt to cut material without the blade guard in place. Disconnect power before changing blades or performing maintenance.
- **Material Handling:** Securely support all workpieces. Use the push stick for narrow cuts. Never reach over or behind the spinning blade.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. COMPONENTS OVERVIEW

The Evolution Rage 5-S table saw includes the following main components:

- Table Saw Unit
- Folding Stand with Wheels
- 10-inch 28T Multi-Material TCT Blade
- Blade Guard Assembly
- Rip Fence with Measuring Rail Guide
- Miter Gauge
- Push Stick
- Dust Extraction Hose
- Table Extensions (Left and Right)

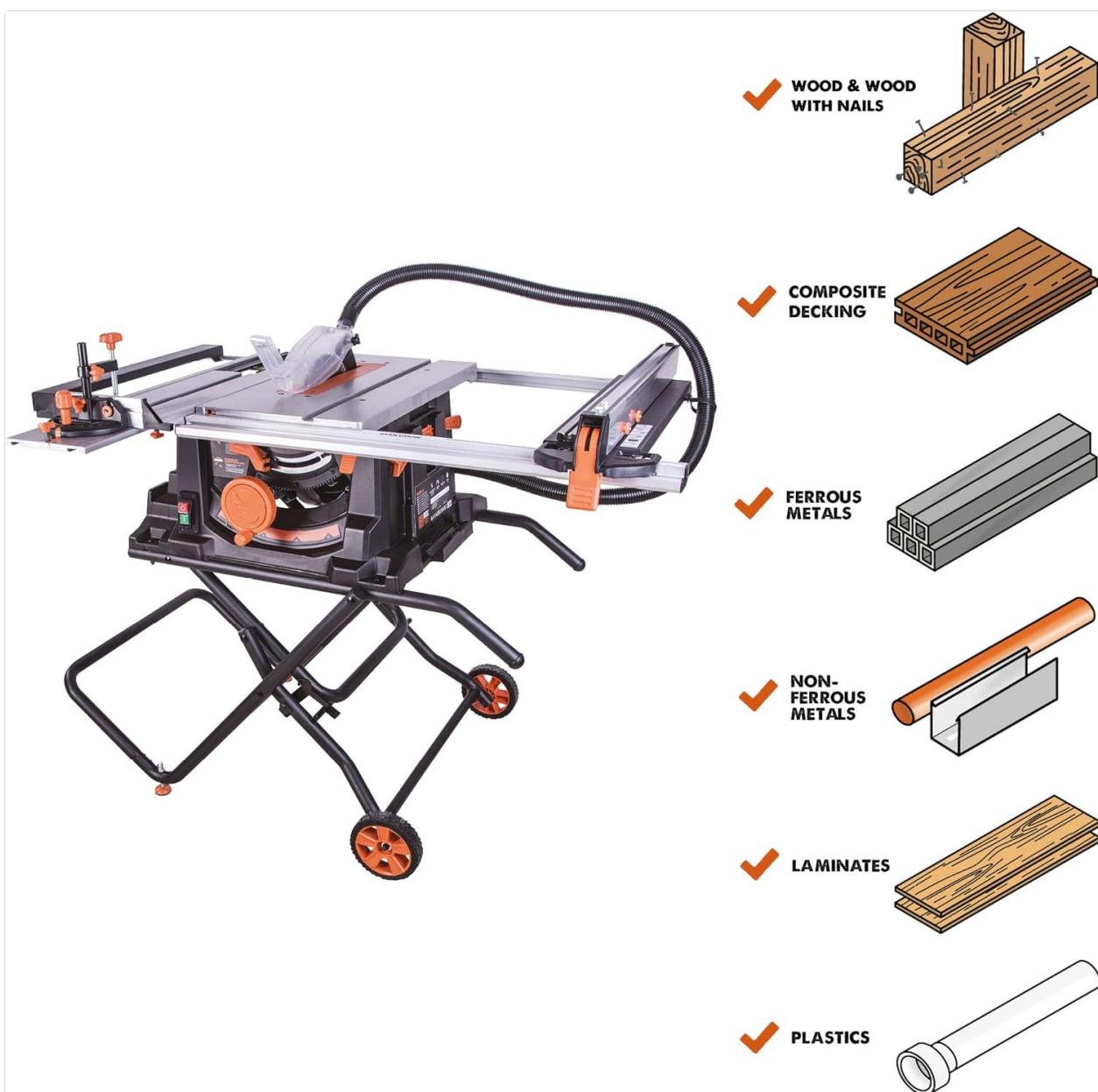


Figure 3.1: The Rage 5-S table saw is capable of cutting wood, wood with nails, composite decking, ferrous metals, non-ferrous metals, laminates, and plastics.

4. SETUP AND ASSEMBLY

Assembly is required before first use. Refer to the visual diagrams provided in the original manual for detailed steps. General assembly involves:

1. **Stand Assembly:** Unfold the stand and secure its locking mechanisms. The integrated wheels facilitate movement.
2. **Attaching the Saw Unit:** Mount the table saw unit securely onto the assembled stand.
3. **Blade Installation:** Ensure the saw is unplugged. Install the 10-inch TCT blade, ensuring it is oriented correctly for cutting.
4. **Blade Guard and Riving Knife:** Install the blade guard and riving knife assembly. The blade guard is crucial for safety and dust collection.
5. **Rip Fence and Miter Gauge:** Attach the rip fence to the table and ensure it slides smoothly. The miter gauge can be inserted into the table slots.
6. **Dust Extraction Hose:** Connect the supplied dust extraction hose to the saw's dust port.
7. **Table Extensions:** Extend the left and right table extensions as needed for larger workpieces.



EASY TO TRANSPORT & STORE

Figure 4.1: The collapsible frame and wheels allow for easy transport and upright storage of the table saw.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

To power on the saw, press the green 'ON' button. To power off, press the red 'OFF' button. Always ensure the saw is off and unplugged before making adjustments or performing maintenance.

5.2 Blade Height Adjustment

The blade height can be adjusted to suit the thickness of your material or for trench cuts. Use the blade height adjustment wheel located on the front of the saw to raise or lower the blade. Ensure the blade is set to cut approximately 1/8 inch above the workpiece for through cuts.



ADJUSTABLE BLADE HEIGHT

Figure 5.1: Blade height adjustment mechanism. The saw achieves a 3-1/4 inch depth of cut at 90 degrees.



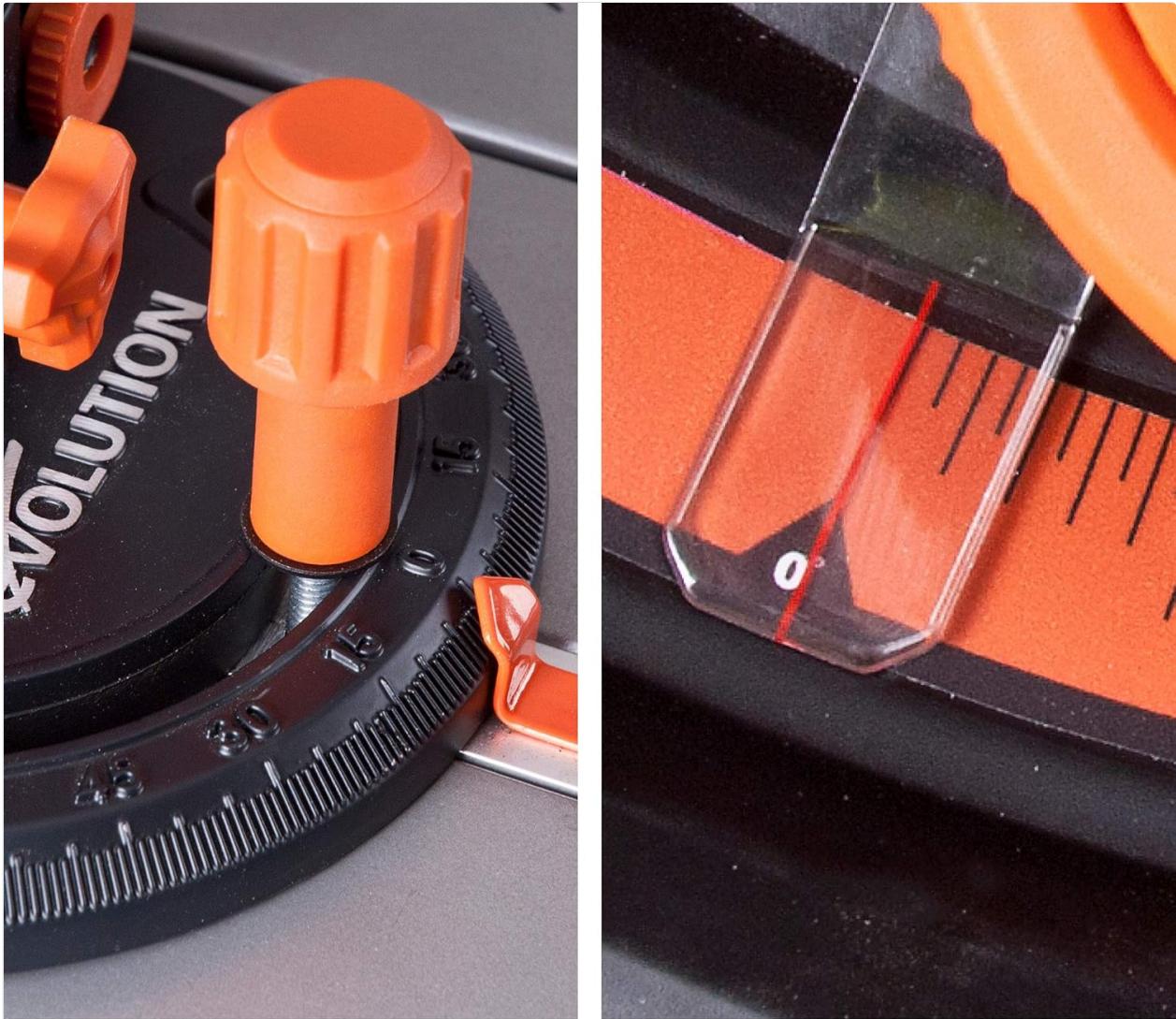
UP TO 3-1/4" DEPTH OF CUT THROUGH WOOD

Figure 5.2: Maximum depth of cut through wood is 3-1/4 inches.

5.3 Bevel and Miter Angle Adjustment

The saw allows for precise angle adjustments for both bevel and miter cuts.

- **Bevel Adjustment:** The blade can be tilted up to 45 degrees for bevel cuts. Use the bevel adjustment lever and scale to set the desired angle. The maximum depth of cut at 45 degrees bevel is 2-1/4 inches.
- **Miter Adjustment:** The miter gauge allows for angle cuts up to 60 degrees. Adjust the miter gauge to the required angle and secure it before making the cut.



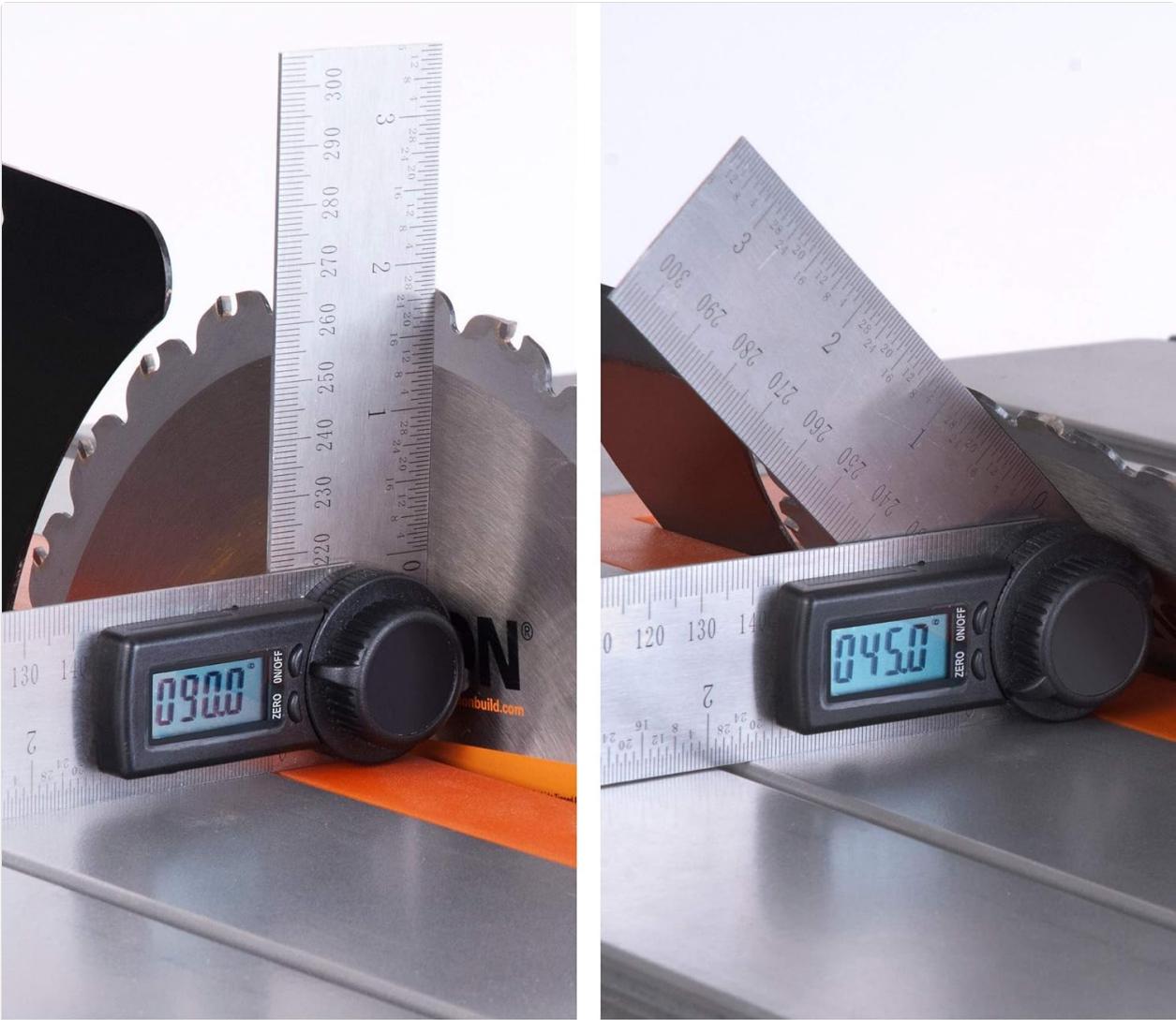
CLEAR & PRECISE ANGLE SETTINGS FOR MITER & BEVEL CUTTING

Figure 5.3: Clear and precise angle settings for miter and bevel cutting.



BEVEL/TILT FUNCTIONALITY

Figure 5.4: Bevel/tilt functionality allows for angled cuts.



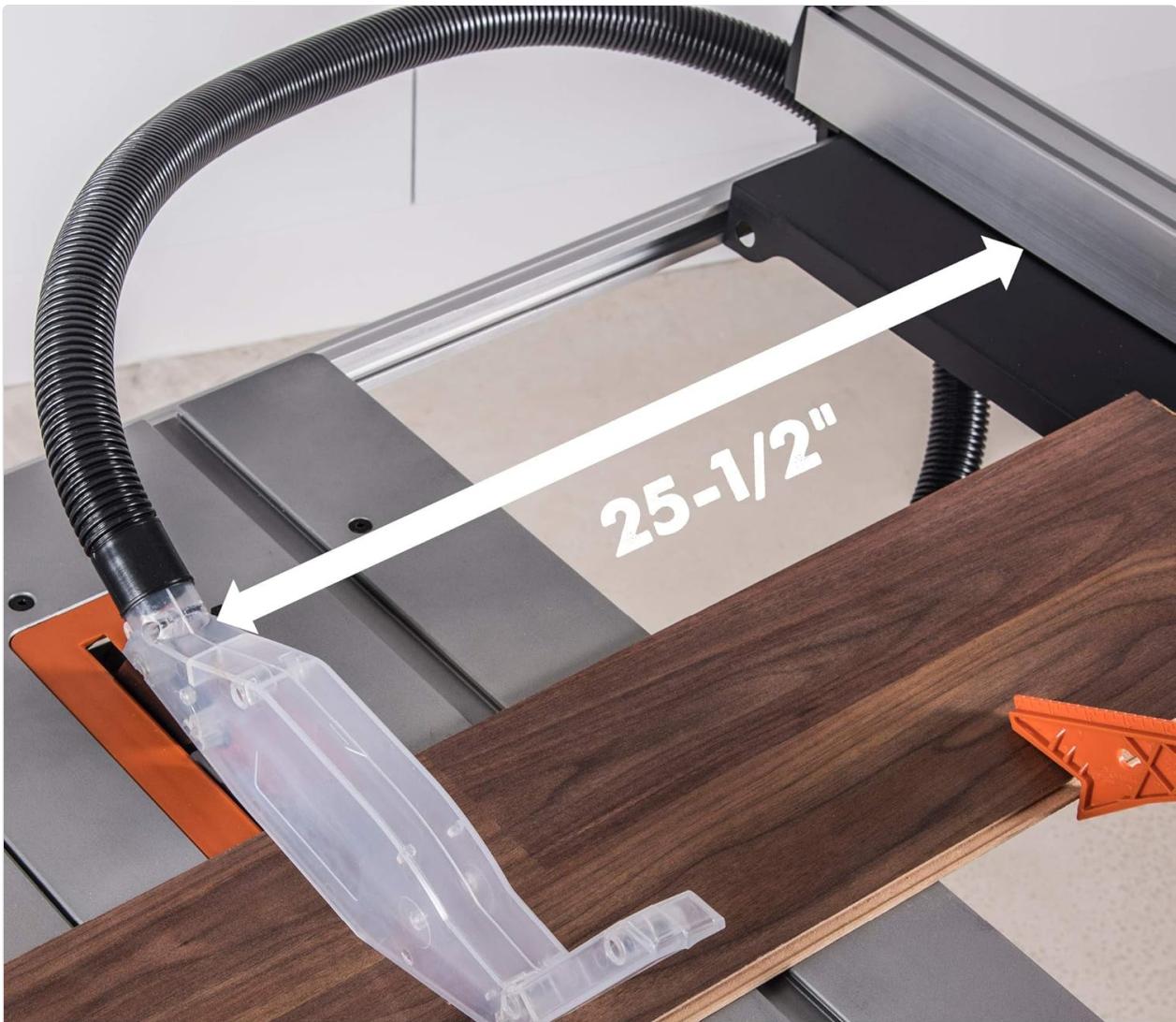
ACCURATE CUTTING

90° - 45° LEFT BEVEL CUTTING

Figure 5.5: Accurate cutting from 90 degrees to 45 degrees left bevel.

5.4 Rip Cutting

For rip cuts (cutting along the grain), use the adjustable, full-length parallel fence. Position the fence according to the desired width using the measuring rail guide. Ensure the workpiece is firmly against the fence and use the push stick for the final portion of the cut, especially for narrow pieces. The saw offers a 25-1/2 inch rip capacity to the right of the blade.



25-1/2" RIP CAPACITY TO THE RIGHT

Figure 5.6: The saw provides a 25-1/2 inch rip capacity to the right of the blade.



SLIDING TABLE & ANTI-VIBRATION DEVICE

Figure 5.7: The sliding table and anti-vibration device assist in smooth and stable cuts.

5.5 Cross Cutting

For cross cuts (cutting across the grain), use the miter gauge. Set the miter gauge to the desired angle and slide it in the table slot. Hold the workpiece firmly against the miter gauge and feed it slowly through the blade.

5.6 Dust Extraction

The saw features an effective dust extraction system to maintain a cleaner work environment. Connect the supplied 70-14/16 inch hose to the dust port on the saw and to a suitable dust collector or shop vacuum. This helps reduce airborne dust and keeps the cutting line visible.



EFFECTIVE DUST EXTRACTION 70-14/16" HOSE SUPPLIED

Figure 5.8: Effective dust extraction with the supplied hose.

5.7 Table Extensions

The built-in left and right table extensions can be deployed to support larger workpieces, providing a total surface area of 47-1/4 x 25-3/16 inches. Ensure extensions are locked in place before use.



BUILT-IN TABLE EXTENSIONS CAPABLE OF CUTTING LARGE SHEET MATERIAL

Figure 5.9: Built-in table extensions capable of cutting large sheet material.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your table saw.

- **Cleaning:** After each use, disconnect the power and clean the saw table, blade guard, and dust ports. Remove sawdust and debris from the motor ventilation openings.
- **Blade Inspection:** Regularly inspect the blade for sharpness, damage, or missing teeth. Replace dull or damaged blades immediately.
- **Moving Parts:** Check all moving parts for proper function and lubrication. Ensure all fasteners are tight.
- **Cord Inspection:** Inspect the power cord for any signs of damage. Do not use the saw if the cord is damaged.

7. TROUBLESHOOTING

If you encounter issues with your Rage 5-S table saw, refer to the following common problems and solutions:

- **Saw Does Not Start:** Check if the power cord is securely plugged in. Verify the power outlet is

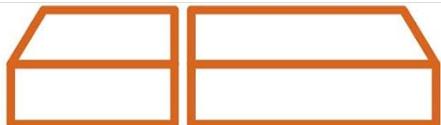
functional. Ensure the 'ON' button is fully depressed.

- **Poor Cut Quality (Tear-out, Burning):** The blade may be dull or dirty. Replace or clean the blade. Ensure the blade is correctly installed and aligned. Reduce feed rate.
- **Excessive Vibration:** Check if the blade is properly installed and tightened. Ensure the saw is securely mounted to the stand and the stand is stable on a level surface.
- **Dust Collection Ineffective:** Check for clogs in the dust extraction hose or dust port. Ensure the hose is properly connected to a functioning dust collector.

For issues not resolved by these steps, contact Evolution Power Tools customer support.

8. SPECIFICATIONS

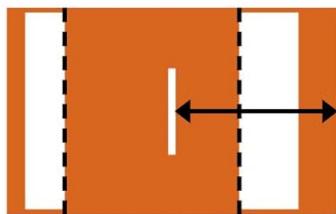
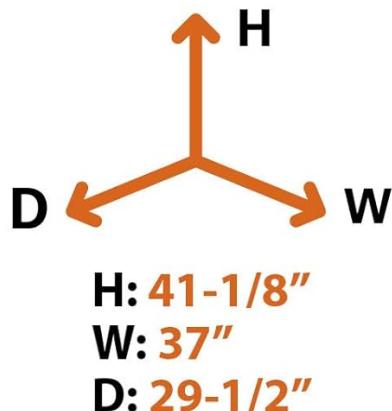
Feature	Specification
Brand	EVOLUTION
Model Number	RAGE5-S
Power Source	Corded Electric
Voltage	120 Volts
Wattage	1800 Watts
Speed	2500 RPM
Blade Diameter	10 Inches (255 mm)
Number of Teeth	28T (TCT)
Max Depth of Cut (90°)	3-1/4 Inches
Max Depth of Cut (45° Bevel)	2-1/4 Inches
Max Rip Capacity (Right)	25-1/2 Inches
Table Surface Area (Extended)	47-1/4 x 25-3/16 Inches
Item Weight	65 Pounds
Cord Length	64 Inches



MAX. CROSS CUT
3-1/4"



MAX. BEVEL CUT
2-1/4"



RIP CAPACITY (RIGHT)
25-1/2"

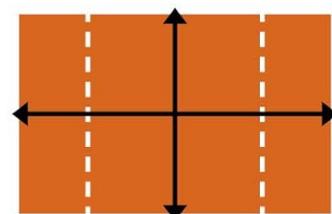


TABLE SIZE
47-1/4" x 25-3/16"

Figure 8.1: Key cutting capacities and dimensions of the Rage 5-S table saw.

9. WARRANTY AND SUPPORT

The Evolution Power Tools Rage 5-S Table Saw comes with a **3-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For technical assistance, warranty service, or to order replacement parts, please contact Evolution Power Tools customer support. Refer to the official Evolution Power Tools website for current contact information.

	<p><u>Evolution RAGE5-S Table Saw: Original Instructions and Safety Guide</u></p> <p>This comprehensive instruction manual from Evolution Power Tools details the RAGE5-S table saw. It covers safety procedures, assembly, operation, maintenance, and specifications for this woodworking tool. Available in English, Spanish, and French.</p>
	<p><u>Evolution S355 MCS Mitre Saw: Original Instructions and Safety Guide</u></p> <p>Comprehensive operating and safety instructions for the Evolution S355 MCS mitre saw. Learn about assembly, safe operation, maintenance, specifications, and troubleshooting for this powerful cutting tool.</p>
	<p><u>Evolution R185 CCSL Circular Saw: Original Instructions and Safety Guide</u></p> <p>Comprehensive instruction manual for the Evolution R185 CCSL circular saw. Includes safety guidelines, specifications, operating procedures, and maintenance tips for safe and effective use.</p>
	<p><u>Evolution R210 CMS Compound Miter Saw - User Manual and Specifications</u></p> <p>Comprehensive user manual for the Evolution R210 CMS Compound Miter Saw, including setup, operation, safety instructions, specifications, and maintenance. Features detailed diagrams and technical information.</p>
	<p><u>Evolution F165 CCSL Circular Saw Instruction Manual</u></p> <p>Comprehensive guide for the Evolution F165 CCSL Circular Saw, detailing safety, operation, specifications, and maintenance. Ensure safe and optimal use of your power tool.</p>
	<p><u>Evolution S355CPSL, S355CPS, S380CPS Metal Chop Saw Instruction Manual</u></p> <p>Comprehensive user manual for Evolution S355CPSL, S355CPS, and S380CPS 355mm metal chop saws, covering safety, operation, assembly, maintenance, specifications, and conformity declarations.</p>