

COOLHOOD COOLHOOD

COOLHOOD Roller Guide Wheel Instruction Manual

Model: COOLHOOD

1. PRODUCT OVERVIEW

The COOLHOOD Roller Guide Wheel is an accessory designed to assist in plasma cutting operations. Constructed from high-speed steel, it offers durability and a long service life. The wheel features brass-plated surfaces for smooth operation. Its design allows for easy adjustment of height and tightness, accommodating various welding clamp heads and suitable for 60A/AG60/SG55 plasma torches.

Key Features:

- Constructed from high-speed steel for durability.
- Brass-plated surfaces on the wheel for enhanced performance.
- Adjustable range and tightness to fit various welding clamp heads.
- Height adjustment range of 22-45mm.
- Compatible with 60A/AG60/SG55 plasma torches.



Figure 1: The COOLHOOD Roller Guide Wheel, showing its brass-plated body and adjustable rollers.

2. SPECIFICATIONS

Component	Detail
Material	High Speed Steel
Height Adjustment Range	Approx. 22-45mm (0.9-1.8 inches)
Inner Diameter Adjustment Range	Approx. 18-23mm (0.7-0.9 inches)
Compatibility	60A/AG60/SG55 Plasma Torches
Manufacturer	COOLHOOD
Model Number	COOLHOOD

PRODUCT SIZE



Height Adjustment Range: Approx. 22 ~ 45mm / 0.9 ~ 1.8in
Inner Diameter Adjustment Range: Approx. 18 ~ 23mm/0.7 ~ 0.9in

Figure 2: Product dimensions, illustrating the height and inner diameter adjustment ranges.

3. SAFETY INFORMATION

Always prioritize safety when working with plasma cutting equipment. This guide wheel is an accessory and does not replace standard safety precautions.

- Ensure the plasma torch is disconnected from power before attaching or adjusting the guide wheel.
- Wear appropriate personal protective equipment (PPE), including welding helmet, gloves, and protective clothing.
- Verify all connections are secure before operating the plasma cutter.
- Do not operate damaged equipment. Inspect the guide wheel for wear or damage before each use.

4. SETUP AND INSTALLATION

Package Contents:

- 1 x COOLHOOD Roller Guide Wheel

Installation Steps:

1. **Prepare the Plasma Torch:** Ensure your plasma torch is disconnected from any power source.

Remove any existing accessories from the torch head if necessary.

2. **Attach the Guide Wheel:** Position the COOLHOOD Roller Guide Wheel around the head of your plasma torch. The inner diameter of the guide wheel is adjustable to fit torch heads within the 18-23mm range.
3. **Adjust Tightness:** Use the screws on the guide wheel to adjust its tightness around the torch head. Ensure it is securely fastened but not overtightened, allowing for smooth movement.
4. **Set Height:** Adjust the height of the guide wheel rollers using the adjustment mechanism. The height can be set between 22-45mm, depending on the desired cutting distance and material thickness.
5. **Verify Stability:** Gently test the guide wheel to ensure it is stable and the rollers move freely.



Figure 3: The Roller Guide Wheel installed on a plasma torch, ready for use.

5. OPERATING INSTRUCTIONS

Once the Roller Guide Wheel is securely installed and adjusted to the desired height, it aids in maintaining a consistent standoff distance during plasma cutting.

1. **Power On:** Connect your plasma cutter to the power source and turn it on according to its

manufacturer's instructions.

2. **Position the Torch:** Place the plasma torch with the attached guide wheel onto the workpiece. The rollers should rest firmly on the material surface, establishing the set standoff distance.
3. **Initiate Cut:** Activate the plasma torch and begin your cut, guiding the torch smoothly along the desired path. The guide wheel will help maintain a consistent height, resulting in a cleaner and more precise cut.
4. **Monitor Performance:** Observe the cutting process. If the cut quality is inconsistent, re-evaluate the guide wheel height and torch speed.



Figure 4: A plasma cutting operation demonstrating the use of a roller guide wheel to maintain consistent torch height.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your COOLHOOD Roller Guide Wheel.

- **Cleaning:** After each use, clean the guide wheel to remove any slag, dust, or debris that may accumulate on the rollers or body. Use a dry cloth or soft brush.
- **Inspection:** Periodically inspect the rollers for wear, damage, or flat spots. Ensure they rotate freely. Check the screws for tightness.

- **Storage:** Store the guide wheel in a clean, dry place away from corrosive materials when not in use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Rollers do not turn smoothly	Accumulated debris, worn rollers, overtightened screws	Clean rollers, inspect for damage, loosen screws slightly
Inconsistent cut height	Incorrect height adjustment, loose attachment to torch	Re-adjust height, ensure guide wheel is securely fastened
Guide wheel feels loose on torch	Screws are not tightened sufficiently	Tighten adjustment screws until secure

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your COOLHOOD Roller Guide Wheel, please refer to the documentation provided at the time of purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.