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› YUHSYWL Foam Cutter Electric Hot Knife User Manual

YUHSYWL QGD-01

YUHSYWL Foam Cutter Electric Hot Knife User Manual

Model: QGD-01

1. INTRODUCTION

Thank you for choosing the YUHSYWL 300W Electric Hot Knife. This versatile tool is designed for precise and efficient cutting of various materials, including foam, EPP, EPS, XPS, EVA, EPE, PU, KT Board, Sponge, and Nylon. With its rapid heating capability and adjustable temperature control, it is suitable for a wide range of commercial and industrial applications, as well as craft and model making.



Figure 1: YUHSYWL Electric Hot Knife and included accessories.

2024 new upgrade
3s Rapid heating
600° High temperature
300W High power

Figure 2: Key features: 3-second rapid heating, up to 600°C temperature, and 300W power.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety warnings and instructions before operating this tool. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Always wear appropriate personal protective equipment, including safety glasses and heat-resistant gloves.
- Ensure the work area is well-ventilated to dissipate any fumes produced during cutting.
- Do not touch the blade or heated parts during operation or immediately after use, as they reach extremely high temperatures.
- Keep the tool away from flammable materials and liquids.
- Never leave the hot knife unattended while it is powered on or cooling down.
- Unplug the tool from the power outlet when not in use, before changing blades, or before cleaning.
- Do not operate the tool if the power cord or plug is damaged.
- Keep children and pets away from the work area.
- Use only original YUHSYWL replacement blades and accessories.

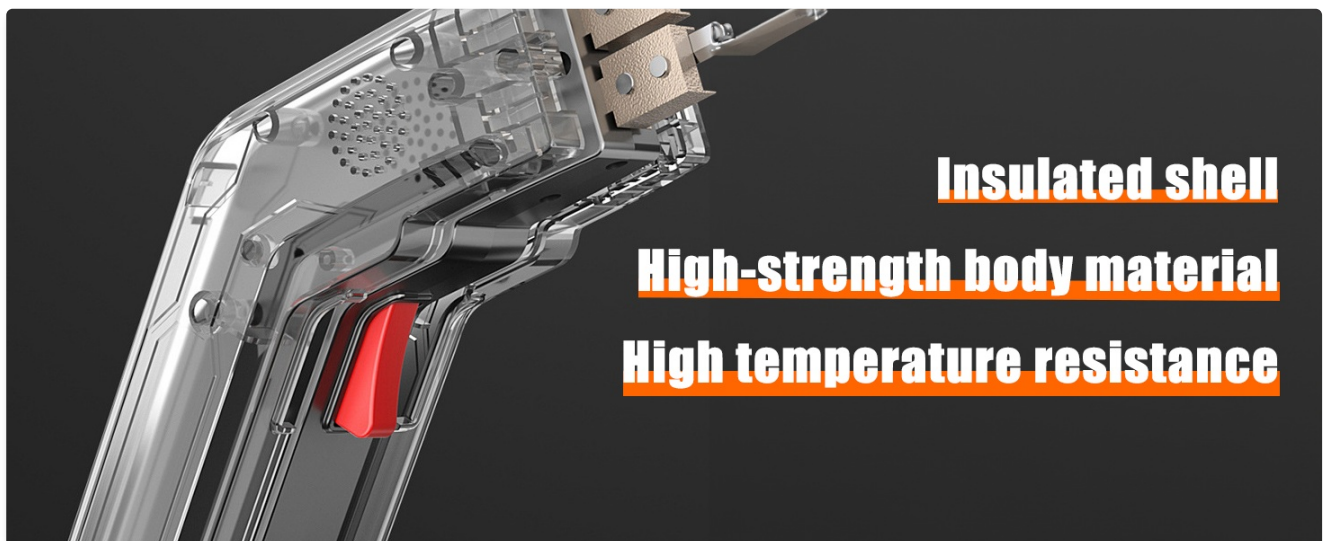


Figure 3: The hot knife features an insulated shell and high-strength, high-temperature resistant body material for user safety.

3. PACKAGE CONTENTS

Your YUHSYWL Foam Cutter Electric Hot Knife 4-in-1 Kit includes the following items:

- 1 x Electric Hot Knife Unit
- Various Nickel-Chromium Alloy Blades (as per 4-in-1 kit configuration)
- 1 x Hexagonal Wrench
- 1 x Cleaning Brush

Various Types of Blades

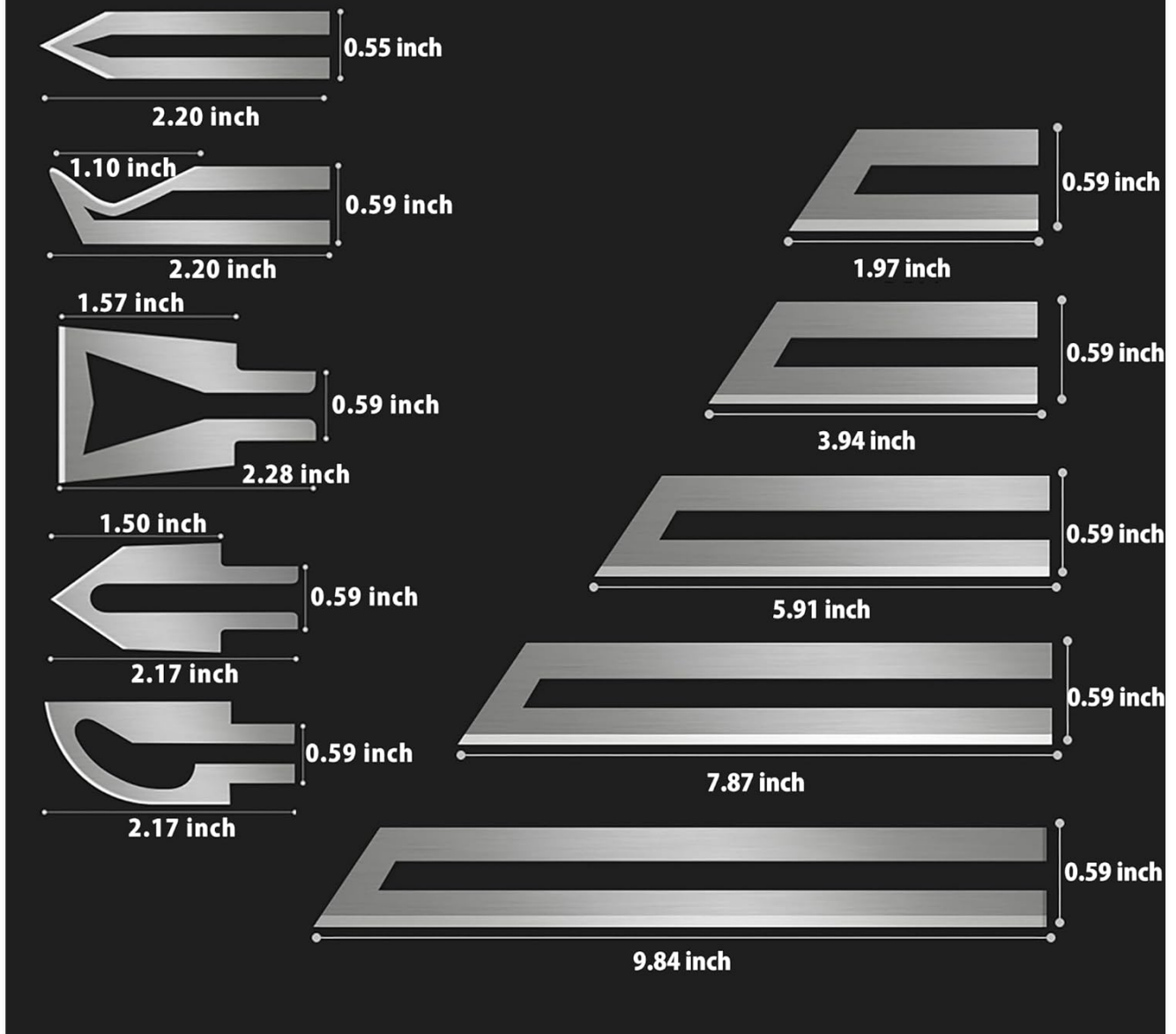


Figure 4: Illustration of various blade types and their dimensions.

4. SETUP AND ASSEMBLY

Follow these steps to properly install the cutting blade:

1. **Loosen the Screws:** Use the provided hexagonal wrench to loosen the screws on the blade holder at the front of the hot knife.
2. **Insert the Blade:** Carefully slide the desired nickel-chromium alloy blade into the slots of the blade holder. Ensure it is seated firmly and correctly.
3. **Tighten the Screws:** Securely tighten the screws with the hexagonal wrench to hold the blade in place. Do not overtighten.

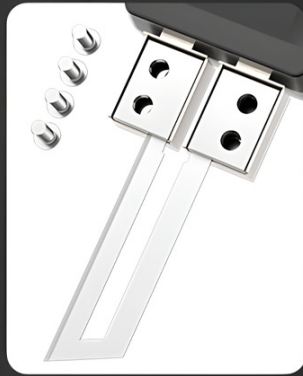
How to install



Loosen the screw with an Allen wrench.



Insert the blade.



Secure the position. Tighten the screw with an Allen wrench.



Figure 5: Visual guide for blade installation.

5. OPERATING INSTRUCTIONS

Once the blade is installed, you are ready to operate the hot knife.

5.1. Temperature Adjustment

The hot knife features a stepless temperature control design, allowing you to adjust the heat power precisely.

1. **Connect Power:** Plug the hot knife into a standard 110V power outlet.
2. **Adjust Temperature:** Slide the knob on the side of the tool to set the desired temperature. The temperature can range from 50°C to 600°C. Start with a lower setting and gradually increase if needed for your material.
3. **Preheat:** Allow 3-5 seconds for the blade to reach the set temperature. The tool heats up rapidly.



Figure 6: Stepless temperature control knob.

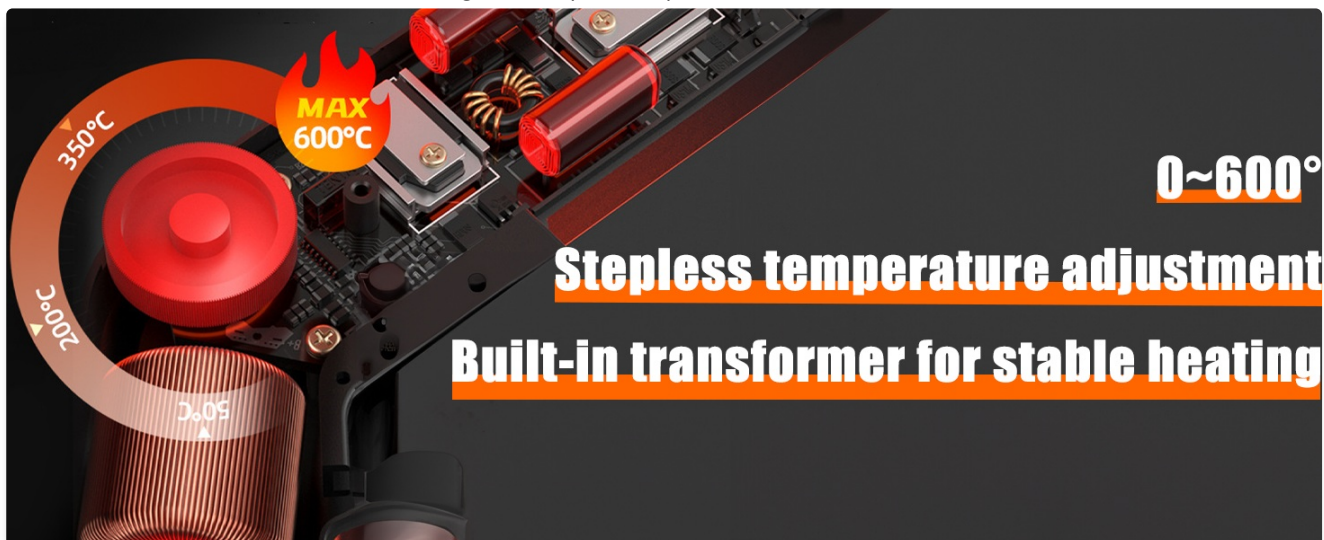


Figure 7: Internal mechanism for stable temperature control.

5.2. Cutting Techniques

For optimal results and safety, consider the following:

- **Test on Scrap Material:** Before cutting your main piece, always test the temperature setting on a scrap piece of the same material to ensure clean cuts and prevent damage.
- **Apply Gentle Pressure:** Allow the heat of the blade to do the work. Apply only gentle, consistent pressure as you guide the blade through the material.
- **Maintain Ventilation:** Ensure continuous ventilation to disperse any fumes or odors generated during the cutting process.
- **Continuous Use:** The advanced cooling system allows for long-term continuous work, maintaining stable and safe operation.

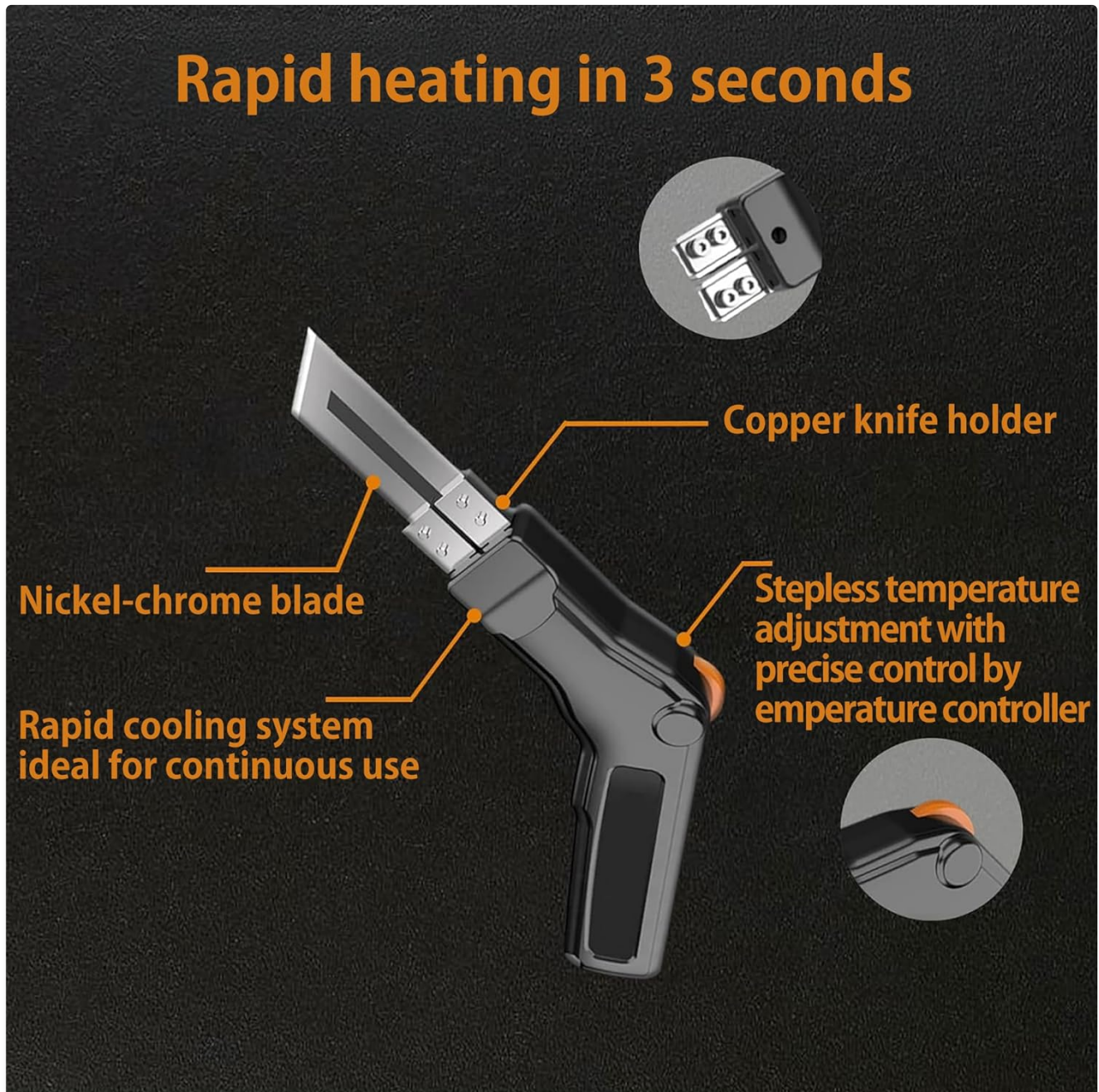


Figure 8: Key components for rapid heating and cooling.



Foam/EPE



**Hollow board
PP resin**



All types of leather



Various fabrics



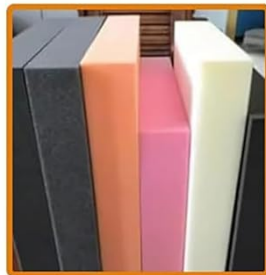
Nylon seat belts



Widely used



**KT board
extruded board**



Rubber and sponge

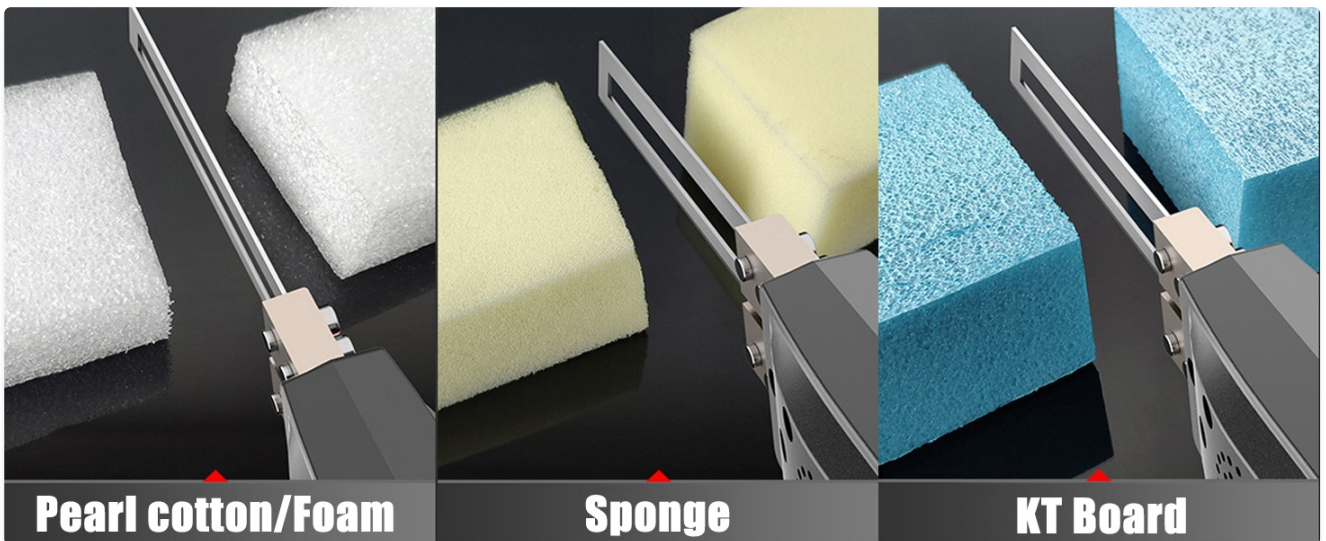


Nylon ties



**Polyethylene
nylon rope**

Figure 9: Examples of materials that can be cut with the hot knife.



Pearl cotton/Foam

Sponge

KT Board

Figure 10: Cutting foam, sponge, and KT board.



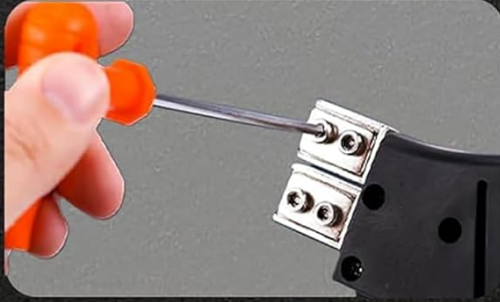
Figure 11: Cutting nylon and PVC materials.

6. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your hot knife.

- **Cleaning:** After each use, ensure the tool is unplugged and completely cooled. Use the provided cleaning brush to gently remove any melted residue or debris from the blade and blade holder. Do not use abrasive cleaners or solvents.
- **Blade Inspection:** Regularly inspect blades for wear or damage. Replace dull or damaged blades to maintain cutting efficiency and safety.
- **Storage:** Store the hot knife and its accessories in a dry, clean place, away from direct sunlight and extreme temperatures. Keep it out of reach of children.

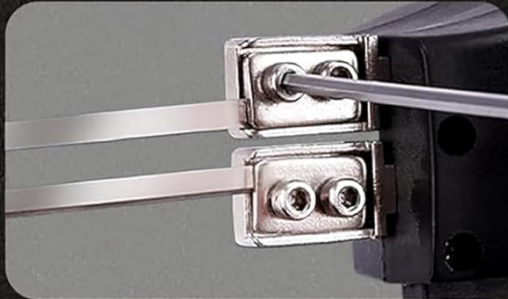
Instructions for Use



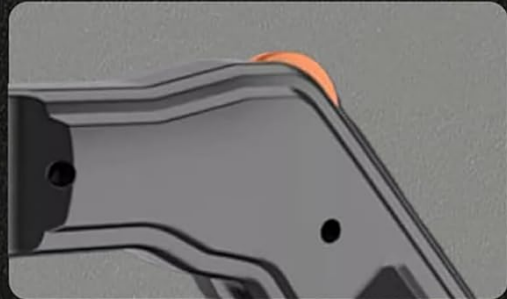
1. Use a hex wrench to loosen the screw.



2. Insert the blade into the knife holder.



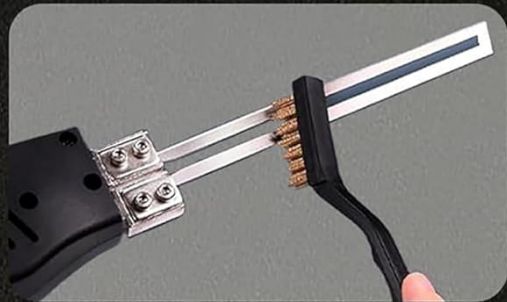
3. Tighten the screw.



4. Slide the knob to adjust the temperature.



5. Press the switch to start the operation.



6. After use, remove any residue with a copper brush.

Figure 12: Step 6 shows cleaning the blade with the copper brush.

Longer lifespan

Copper conducts heat

Nickel plating resists oxidation

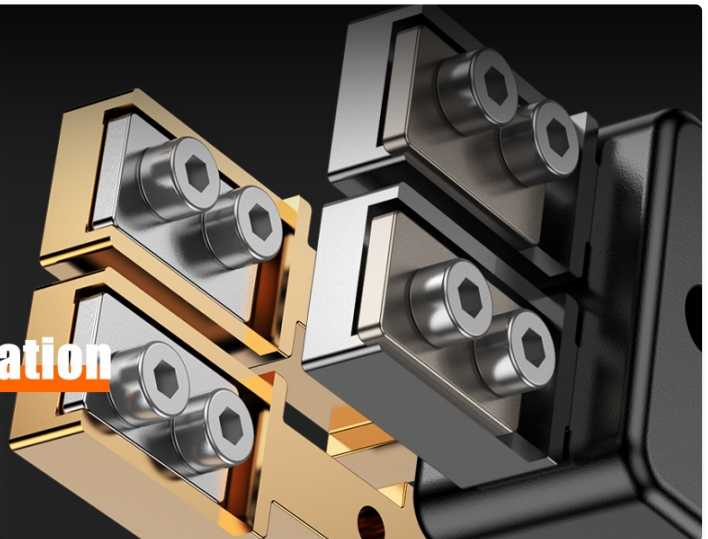


Figure 13: Copper heat conduction and nickel plating contribute to longer lifespan and resistance to oxidation.

7. TROUBLESHOOTING

If you encounter issues with your YUHSYWL Electric Hot Knife, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Tool does not heat up.	Not plugged in correctly. Power outlet malfunction. Damaged power cord/tool.	Ensure plug is fully inserted. Test with another outlet. Contact customer support if damaged.
Blade not cutting cleanly.	Temperature too low. Blade is dirty or dull. Incorrect cutting technique.	Increase temperature setting. Clean the blade or replace it. Apply gentle, consistent pressure.
Excessive smoke/fumes.	Temperature too high. Poor ventilation. Material not suitable for hot cutting.	Reduce temperature. Ensure adequate ventilation. Verify material compatibility.
Blade becomes loose.	Screws not tightened sufficiently.	Tighten the blade holder screws with the hexagonal wrench.

If the problem persists after trying these solutions, please contact YUHSYWL customer support.

8. PRODUCT SPECIFICATIONS

Detailed technical specifications for the YUHSYWL Electric Hot Knife:

Product Name	Electric Hot Knife
Model Number	QGD-01
Power	300W
Voltage	110V
Adjustable Temperature	50°C to 600°C (122°F to 1112°F)
Heating Time	3-5 seconds (to reach operating temperature)
Net Weight	Approximately 0.4 KG (0.88 lbs)
Wire Length	Approximately 2 meters (6.56 feet)
Blade Material	Nickel-Chromium Alloy

Handle Material	Plastic
Applications	Cutting fabrics, leather, EPE, EVA, nylon rope, polystyrene, foam board insulation, EPP, EPS, XPS, PU, KT Board, Sponge, and other meltable materials.

Detailed Parameters

Product Name: Electric Hot Knife **Power: 300W**

Adjustable Temperature: 50~600° C **Voltage: 110V**

Net Weight: Approximately 0.4KG **Wire Length: Approximately 2 meters**

Applications: Cutting fabrics, leather, EPE, EVA, nylon rope and other meltable materials

***Please note that due to manual measurement, there may be a 1-3CM error.**

Figure 14: Detailed product parameters and dimensions.

9. WARRANTY AND SUPPORT

Your YUHSYWL Electric Hot Knife comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures your peace of mind.

If you encounter any problems during use, or have questions regarding the product, please do not hesitate to contact our professional customer support team. We are committed to providing you with a satisfactory solution.

Contact Information:

Please refer to your purchase platform or product packaging for the most up-to-date contact details for YUHSYWL customer service.