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DOINOW K1

DOINOW Portable Cordless Hot Wire Foam Cutter Pen

Model: K1 - Instruction Manual

1. Introduction

This manual provides detailed instructions for the safe and effective use of your DOINOW Portable Cordless Hot Wire Foam Cutter Pen. Please read this manual thoroughly before first use and retain it for future reference. This tool is designed for cutting and carving various foam materials, offering cordless convenience and precise control for crafting and DIY projects.



Image 1.1: The DOINOW Portable Cordless Hot Wire Foam Cutter Pen with its various attachments, including the main unit, U-shaped hot blade, needle hot blade, bow hot blade, replacement heating wire, USB-C charging cable, and user manual.

2. Important Safety Instructions

- **Ventilation:** Always use the foam cutter in a well-ventilated area to avoid inhaling fumes produced during cutting.
- **Eye and Hand Protection:** Wear appropriate safety glasses and gloves to protect against heat and debris.
- **Charging Safety:** Do not operate the hot wire cutter while it is charging.
- **Cool Down Period:** Allow the tool to rest after approximately 30 minutes of continuous operation to prevent overheating and prolong battery life.
- **Material Compatibility:** This tool is designed for small, delicate foam projects. It is not suitable for thick or high-density materials such as foam rubber, EVA, plastic extruded board, or poster board.
- **Blade Handling:** The heating elements become extremely hot. Avoid direct contact with skin. Allow blades to cool completely before cleaning or changing.



Image 2.1: Visual representation of key usage tips and safety precautions, emphasizing proper handling and care of the foam cutter.

3. Package Contents

Verify that all items listed below are included in your package:

- 1 x Hot Wire Foam Cutting Tool (Main Unit)
- 1 x U-Shaped Hot Blade (5.5 inches)
- 1 x Bow Hot Blade (2.7 inches)
- 1 x Needle Hot Blade (5.1 inches)
- 1 x USB-C Charging Cable
- 1 x Roll of Replacement Heating Wire (32.8 ft)
- 1 x User Manual
- 1 x Packaging Box



Image 3.1: A visual overview of all items included in the DOINOW Portable Cordless Hot Wire Foam Cutter Pen package.

4. Setup and Initial Use

4.1 Charging the Device

The foam cutter is equipped with a built-in 2000mAh lithium-ion battery and a USB-C interface for convenient charging. For optimal performance, fully charge the device before its first use, as it may have only partial power upon purchase.

1. Connect the provided USB-C charging cable to the charging port on the foam cutter.
2. Plug the other end of the USB-C cable into a compatible USB power source (e.g., wall adapter, computer USB port).
3. The LED indicator light will show charging status. Once fully charged, disconnect the cable.

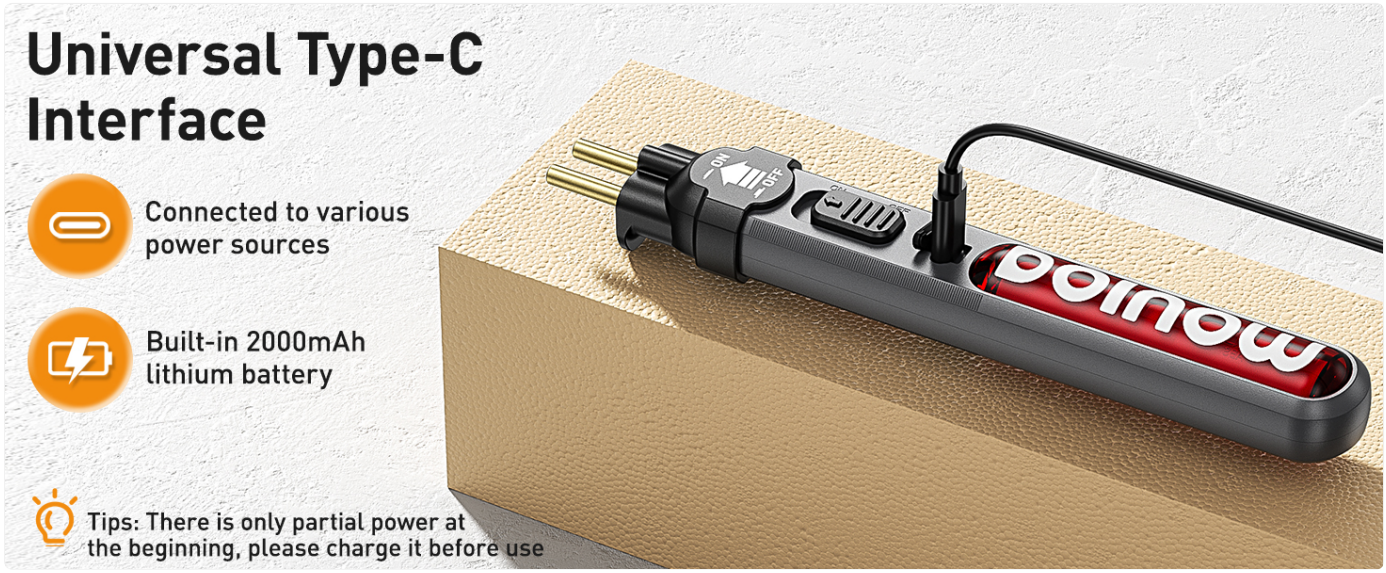


Image 4.1: The foam cutter being charged via its Universal Type-C Interface, highlighting its portability and integrated battery.

4.2 Attaching Cutting Blades

The foam cutter comes with interchangeable blades for different cutting needs.

1. Ensure the device is turned off and cool before attaching or detaching any blades.
2. Align the pins of the desired blade (U-shaped, Bow, or Needle) with the corresponding slots on the main unit.
3. Gently push the blade into place until it is securely seated. Do not force it.
4. To remove, pull the blade straight out from the main unit.

5. Operating Instructions

5.1 General Operation

The DOINOW foam cutter heats up rapidly, reaching 212℉ (100℃) in approximately 12 seconds and exceeding 1022℉ (550℃) in about 30 seconds. This quick heating saves time and increases work efficiency.

1. Ensure a blade is securely attached and the device is charged.
2. Slide the ON/OFF switch to the 'ON' position. The built-in LED light will illuminate, providing visibility for precise cutting.
3. Allow the blade to preheat for a few seconds until it reaches the desired temperature.
4. Gently guide the hot blade through the foam material. Apply steady, even pressure. Avoid forcing the blade, as this can damage the wire or reduce cutting efficiency.
5. After use, slide the ON/OFF switch to the 'OFF' position and allow the blade to cool completely before handling or storing.



Image 5.1: A step-by-step guide illustrating the process of using the foam cutter for art creation, from drawing to cutting and finishing.

5.2 Using Different Blades

The 6-in-1 foam cutter includes various blades to suit different crafting needs:

- **U-Shaped Hot Blade:** Ideal for cutting and carving foam contours and larger shapes.
- **Bow Hot Blade:** Suitable for detailed cutting and intricate carving.
- **Needle Hot Blade:** Used for punching holes, digging, and fine detail work.



Image 5.2: The U-shape hot wire tip in action, used for precise cutting and carving of foam contours.

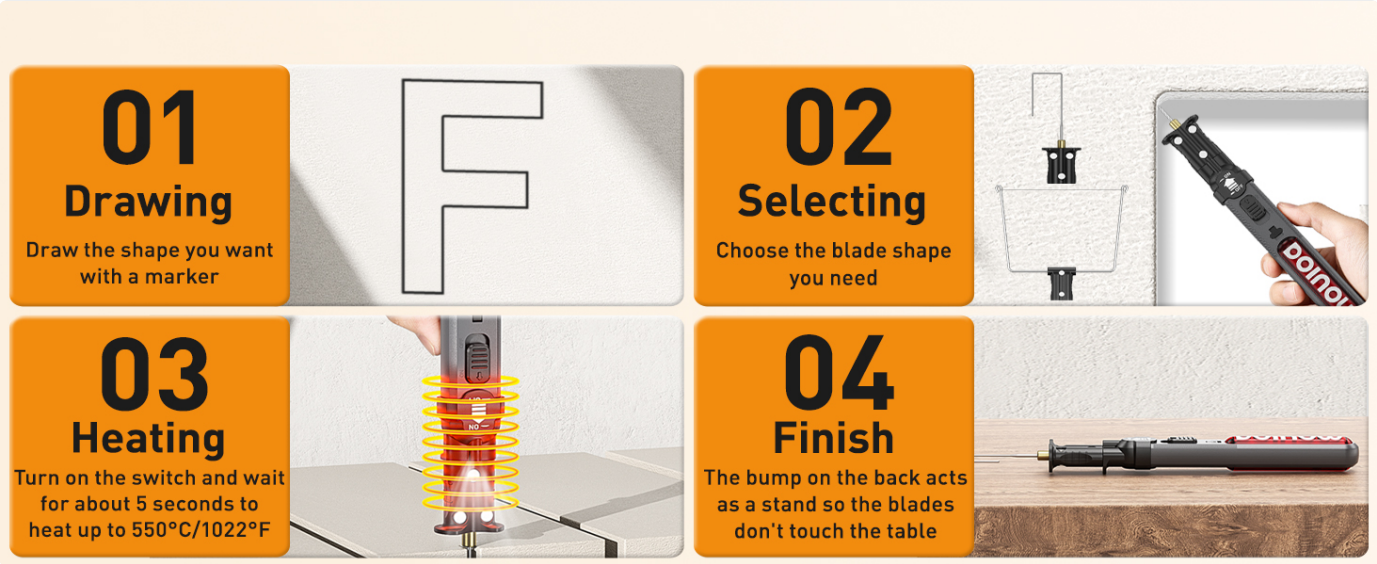


Image 5.3: The bow hot blade tip being used for intricate cutting and carving details in foam.



Image 5.4: The needle hot blade tip in use for punching and digging holes, suitable for fine detail work.

5.3 Compatible Materials

The DOINOW foam cutter is suitable for a variety of foam materials, including:

- Pearl Cotton
- KT Board
- Cellular Glass
- EPP (Expanded Polypropylene)
- Sponge
- Benzene (Styrofoam)



Image 5.5: Examples of foam materials compatible with the DOINOW foam cutter.

6. Maintenance

6.1 Cleaning the Blades

Regular cleaning of the blades is essential to maintain cutting efficiency and prevent excessive foam adhesion.

1. Ensure the foam cutter is turned off and the blade has completely cooled down.
2. Gently wipe the heating needle or wire with a damp sponge or cloth to remove any foam residue. Avoid abrasive materials that could damage the heating element.
3. For stubborn residue, a soft brush may be used. Ensure the blade is dry before next use or storage.

6.2 Replacing the Heating Wire

The foam cutter includes 32.8 feet of replacement heating wire. If the existing wire breaks or becomes damaged, it can be replaced.

1. Carefully remove the old heating wire from the blade attachment.
2. Cut a new piece of heating wire to the appropriate length for the specific blade.
3. Thread the new wire through the designated points on the blade attachment and secure it firmly. Refer to the blade design for proper installation.

7. Troubleshooting and Limitations

- **Tool Not Heating:** Ensure the battery is sufficiently charged. Check that the blade is securely attached and the ON/OFF switch is fully engaged.
- **Slow Cutting/Gummy Residue:** This may indicate insufficient heat or excessive foam buildup on the blade. Allow the tool to preheat longer, or clean the blade as described in the Maintenance section.
- **Short Battery Duration:** The tool is designed for small to medium projects. For extended use, ensure the device is fully charged before starting. Continuous heavy use may deplete the battery faster.
- **Blade Looseness/Failure:** Ensure blades are properly seated. If a blade attachment becomes loose or fails to heat, inspect the wiring for damage. While replacement heating wire is provided, individual blade attachments are not typically sold separately.
- **Inability to Cut Thick/Dense Foam:** This tool is optimized for specific foam types and densities. Attempting to cut materials outside its recommended use (e.g., foam rubber, EVA, plastic extruded board) may result in poor performance or damage to

the tool.

8. Product Specifications

Feature	Specification
Brand	DOINOW
Model Number	K1
Material	Hot wire, Plastic handle
Product Dimensions	9.25"L x 6.5"W (overall, with U-shape blade)
Item Weight	2.91 Ounces
Color	Black
Handle Material	Plastic
Grip Type	Ergonomic
Cutting Width	1 Inches (approximate, depends on blade)
Power Source	Battery Powered (1 Lithium Ion battery included)
Battery Capacity	2000mAh
Charging Interface	USB-C
Voltage	5 Volts
Wattage	18 watts
Heating Wire Diameter	0.38mm (0.015 inch)
Blade Lengths	Needle: 5.1", Bow: 2.7", U-shaped: 5.5"
Date First Available	November 3, 2023

9. Warranty and Support

DOINOW provides 2 years of after-sale service and technical support for this product. If you encounter any issues or have questions regarding your Portable Cordless Hot Wire Foam Cutter Pen, please contact our customer support team. We are committed to providing a satisfactory solution.
For assistance, please refer to the contact information provided in your product packaging or visit the official DOINOW store on Amazon.

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