



Smart Lithium Battery-Powered Electric Hot Knife

User Manual

Before using the tool, please read this manual carefully, with particular attention to the safety precautions outlined herein. It is essential to follow all instructions provided in this manual to prevent personal injury, avoid damage to objects, and protect the tool from harm. Additionally, we advise that you keep the warranty card properly for future maintenance and reference.

Product Introduction:

This electric hot knife is designed with an intelligent recognition system and a smart cooling mechanism, complemented by multiple protective functions. These features enable it to accommodate various blade types and achieve rapid heating. Additionally, it is equipped with a 10-level dial for temperature adjustment, supported by a clear and precise digital temperature display. A fault code display is also provided to facilitate troubleshooting in the event of operational anomalies.

The electric hot knife is typically used in packaging, construction, architectural modeling, and design. It provides excellent support for professionals, craftsmen, and DIY enthusiasts in both commercial and industrial applications. This tool can cut through a variety of materials, including lightweight foam, KT boards, polyurethane, polyethylene, expanded EPS, extruded XPS, sponge, rubber, nylon, canvas, synthetic fibers, fabrics, straps, awnings, filter cloth, belts, and ropes.

This electric hot knife features high-quality alloy blades that are resistant to high temperatures and designed for a long service life. The blade can reach temperatures of up to 500°C within just a few seconds. The dual temperature protection design can prevent overheating and protect the hot knife from damage.

The electric hot knife is easy to assemble by following these steps: loosen the fastening screws on the blade holder, slide the blade under the square pressing plate until it fits securely, and insert the blade into the blade holder and tighten the screws.

To maintain temperature accuracy, use the original factory blades for the electric hot knife and ensure that the fastening screws on the blade holder are tightened during assembly. Failure to do so may result in abnormal blade temperatures or damage to the electric hot knife.

Technical specifications:

Product model:	1852 MAR INEN OUR CITY	hotknife	Power supply: 20 V lithium battery pack
Temperature range:	50°C ~500°C	Adjustment method:	Dial adjustment with digital display in 50°C increments

Weight: 0.5 kg (excluding blade and battery pack) Dimensions: 400 mm x 250 mm x 80 mm

Operating instructions:

1. Be sure to wear personal protective equipment, including safety goggles, masks, and heat-resistant gloves;
2. Make sure that the hot knife is cooled before using the provided hex wrench to loosen the four hex screws on the blade holder;
3. Insert the pins of the blade into the two blade holders and securely tighten the four hex screws. Verify that the blade is well aligned with the blade holder and that they are in good contact. This is to prevent blade deformation, insufficient heating, and inaccurate temperature readings during use;
4. Confirm the charge level of the lithium battery pack and install it correctly;
5. Press the trigger switch, and adjust the temperature level as needed using the dial after the tool completes its self-check;
6. The flashing temperature symbol indicates that the tool is rapidly heating up, and it will be ready for use once the flashing stops.
7. Remove the battery pack after use and clean the blade with the accompanying copper wire brush while the blade is still warm. **DO NOT** perform this operation while the blade is heating, as it may cause a short circuit and potentially damage the electric hot knife.

Auxiliary Fault Codes:

Faults		Solutions
E1	Blade not properly assembled or securing screws not tightened	Insert the blade into the blade holder and tighten the securing screws
E2	Under-voltage protection	Restart the tool after replacing the battery pack
E3	Circuit board temperature protection	Restart the tool after it cools down
E4	Case temperature protection	Restart the tool after it cools down
E5	Over-current protection	Check for any short circuits in the blade and attempt to restart; if useless, contact customer support

Safety Precautions:

1. Stay Alert. **DO NOT** use the electric hot knife when fatigued or under the influence of drugs, alcohol, or medications. Lack of concentration while operating the hot knife may result in serious personal injury. Make sure to wear personal protective equipment, including heat-resistant gloves, safety goggles, and a safety helmet, to minimize the risk of personal injury.
2. Prevent accidental startup. Make sure the switch is in the OFF position before connecting to the power source and/or battery pack, or before picking up or carrying the tool. Carrying electric tools

with your finger on the switch or while the switch is on can lead to accidents.

3. Always remove the battery pack before assembling or disassembling the blade. Allow sufficient cooling time for the blade and blade holder before operation, and keep hot blades away from skin, clothing, and other flammable materials to prevent burns and safety incidents.

4. Review Material Safety Data Sheets (MSDS) to check the melting point and toxicity of the materials being cut. Be sure to take necessary precautions and always operate the electric hot knife in a well-ventilated space.

5. After use, remove the battery pack. While the blade is still warm, use appropriate cleaning tools to remove any residue on the blade to extend its lifespan.

6. The blade **MUST NOT** come into contact with metal objects while the electric hot knife is in operation, as this can cause short circuits and damage to the tool.

7. **DO NOT** use the electric hot knife in wet or humid conditions, as this can lead to damage to the tool.