Handheld Air-Cooled 500 °C Electric Thermal Cutter for Fabric Cutting - Instruction Manual

Thank you for choosing **CNCGLASS**. This manual describes the safe set-up, operation, cleaning and service conditions of the **CNCGLASS** air-cooled handheld electric thermal cutter, a high-output portable hot-blade cutting tool engineered for cutting and simultaneously sealing the edges of textile sheets such as curtain cloth, polyester fabric and sheer voile, so that cuts close cleanly without fraying. Please read this manual carefully before first use and keep it with the tool.

1. Product Overview

The cutter is an air-cooled, hand-held resistance-heated blade tool. Its temperature control dial lets the operator set blade heat to suit the material and the travel speed. The blade reaches the set temperature within seconds. Cutting quality is best when the blade temperature and hand speed are matched: moving too slowly or running too hot produces uneven, over-wide cut seams, while high cutting resistance calls for a firmer trigger pull or a higher temperature setting, which also prolongs service life of the blade.

2. Technical Specifications

Parameter	Value
Supply voltage	AC 220 V, 50 Hz
Maximum output power	130 W
Maximum blade temperature	500 °C
Tool body weight	610 g
Tool body length	320 mm
Blade type	Arc blade for fabric and synthetic textile cutting
Cooling	Air-cooled handle construction

3. Standard Package

- Electric thermal cutter body × 1
- Arc cutting blade × 1
- Blade-installation spanner × 1
- Brass wire cleaning brush × 1
- Plastic carrying case × 1

4. Installing the Blade

Safety first: unplug the power cord before installing the blade. If the trigger is touched by mistake, the blade heats up instantly and can cause burns. After use, allow the blade to cool fully before touching it.

1. Loosen the blade-holder screws at the front of the tool with the supplied spanner.
2. Place the blade beneath the blade clamping plate and push it up against the bottom end of the holder.
3. Tighten all screws firmly so that the blade seats with good mechanical and electrical contact against the holder.
4. Check that the blade is installed correctly, only then connect the power cord to the supply outlet.

Blade orientation: this tool uses a sharpened blade for fast, clean cuts; the cutting edge must face the direction of travel while cutting.

Power setting: the output dial controls blade temperature. Excessive power or temperature can overheat the blade holder and damage the tool. Select the lowest power sufficient to cut the material; for foam-based sheeting the blade

does not need to glow red to cut fabric sheets such as curtain cloth, polyester fabric and sheer voile.

5. Cutting Operation

Before cutting production material, make a trial cut on a test piece of the same material and adjust the dial to a temperature that matches your cutting speed. If seams turn out uneven or over-wide, lower the temperature setting or release the trigger briefly. If the blade meets high resistance, keep the trigger depressed or raise the temperature setting. Release the trigger 2-3 cm short of the end of the cut so that molten material does not build up on the blade.

6. Safety Warnings

- Use indoors only in well-ventilated rooms; extractive ventilation is strongly recommended.
- Never let the blade dry-burn when not cutting. Dry burning overheats blade and tool and can distort the blade; clean the blade with the supplied brass wire brush instead.
- Pull the trigger only after the blade is in contact with the material being cut.
- Keep the hot blade away from skin, clothing and other flammable items to prevent fire and burns.
- Handle the blade only after it has cooled completely.
- Do not strap or hold the trigger closed to keep the tool heating continuously. Damage caused by this misuse voids normal service coverage.
- The working voltage can injure people and animals. Inspection, opening or disassembly must be performed only by authorised service personnel. The user is responsible for any injury caused by unauthorised opening of the tool.

7. Cleaning and Maintenance

After extended use, molten plastic accumulates on the blade and the blade holder. This residue degrades cutting accuracy and can impair the electrical contact between blade and holder. To clean: warm the blade slightly, switch the tool off and release the trigger, then brush the blade and holder with the supplied brass wire brush. Always clean with the trigger released - brushing while the tool is live can short-circuit between blades and may damage the tool.

8. Service and Warranty

A 12-month warranty applies from the purchase date shown on the invoice or receipt; any extended coverage will be stated in the product description. Warranty covers parts with material or manufacturing defects under normal use. Consumable blades are excluded. Damage arising from use or storage contrary to this manual, and damage caused by non-original parts, is not covered. All repairs are carried out by designated service points. For a claim, contact customer service for confirmation and return the complete product together with the proof of purchase.

CNCGLASS - CNC Ucolin Interlayer Technology Co., Ltd.
SHENZHEN, GD, CHINA
Peter Lin · cnc@cncGlass.com · WhatsApp / Mobile +86 15013829504 · WeChat wecan365 · www.cncglass.com