CNCGLASS

CNC Ucolin Interlayer Technology Co., Ltd.
SHENZHEN, GD, CHINA

OPERATING INSTRUCTION

CNCGLASS Air-Cooled Hot Knife — Operating Instruction for Fabric Cutting

Read this instruction carefully before operation. Observe all safety prompts to avoid injury to yourself, other people and objects, and follow these guidelines to avoid damage to the tool.

1. Introduction

The **CNCGLASS air-cooled hot knife** is a professional-grade electric hot cutting tool for fabrics. It is the first hot knife with an air-cooling system and the first hand-held hot knife designed for continuous operation. The blade heats up within seconds and the operator has full temperature control, making clean, fume-light cutting of fabrics faster, easier and more economical than ever before.

Recommended materials	Fabrics, fiberglass fabrics and polyester fabrics

2. Blade Installation

Always unplug the power cord before installing or removing blades. Allow sufficient cooling time for the blade, blade holders and mounting screws before handling them.

1. Loosen the screws on the blade holders with the supplied wrench.
2. Slide the straight blade under the square pressure plates until snug.
3. Tighten the screws securely to assure a proper electrical connection — do not over-tighten.
4. With the blade firmly in place, plug the unit into a standard 230 V power supply.
5. The temperature control knob has 16 click settings corresponding to the graduated ridges on its surface; the smaller the ridge, the lower the power setting.

Caution 1: The blade has a sharpened razor edge. For the cleanest cut, always cut in the direction of the sharpened edge.

Caution 2: Excessive power output and heat generation may cause the blade holders to overheat and damage the unit. Use only the power output needed for proper cutting — the blade does not need to be red hot to move through foamed plastics.

3. Operation

1. Set the temperature control knob to mid-range.
2. Place the blade against the edge of the fabric and depress the trigger.
3. Optimum cutting is virtually smoke free. For best results, practice first on scrap pieces of fabric.

When cutting foam, keep the temperature and speed consistent. If smoke develops during the cut, you are cutting too slowly or the blade is too hot, which can result in an oversized, uneven cut. Remedy this by lowering the temperature and intermittently releasing the trigger during the cut; as cutting resistance increases, depress the trigger again. The knife reaches its set temperature within seconds, and this technique completes the cut with minimal smoke while prolonging the life of the tool.

Releasing the trigger approximately one or two inches (25–50 mm) before completing the cut helps keep the blade clean and free from residue build-up.

Caution 3:

- Always operate the hot knife in a well-ventilated space.
- Never burn off excess residue on the blade — the blade will overheat and warp, potentially overheating the unit.
- Only operate the hot knife while it is in contact with the cutting board.
- Keep the hot blade away from skin, clothing and other flammable materials.
- Allow the blade to cool before handling; a hot blade can cause injury or burns.

4. Maintenance

Constant use may cause material build-up on the blades and the brass holders. This residue interferes with the proper electrical connection and impairs blade performance. Clean the brass blade holders and blades thoroughly with the supplied wire brush.

5. Specification

Input voltage	230 V
Power output	Max. 100 W
Operation	Continuous operation
Weight	450 g
Body length	290 mm
Maximum temperature	400 °C

6. Basic Kit

Hot knife handle	1
Straight blade	1
Wire brush	1
Spanner	1
Tool box	1

This document is a CNCGLASS operating instruction. It is not a third-party test certificate or a certificate of conformity, and it does not authorise the use of any third-party laboratory mark.

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