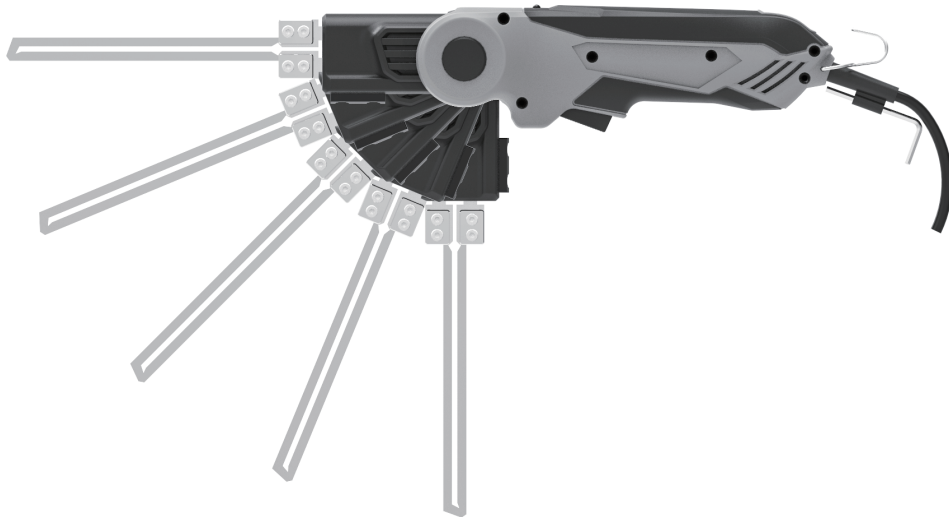


# SP-7H Hot Knife

## Operating instruction

- Please read this instruction carefully before operation
- Take special care on safety prompts in these instructions so as to avoid injury to yourself, other people and objects.
- Please follow the guidelines in these instructions to avoid damage to the tool.
- SP-7H is the First Hot Knife with five Angles Adjustment on the cutting head.

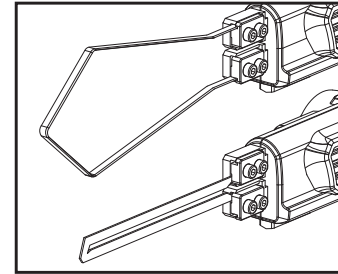


## Introduction

SP-7H Hot Knife a real professional-grade hot cutting tool for foamed plastics. The SP-7H Hot Knife heats up in seconds and gives the operator temperature control. Never before has working with foamed plastics been this easy, inexpensive and free of mess.

## Recommended Use

This blade holder can be assembled both straight blade and flat blade.



Expanded Polystyrene (EPS), Extruded Polystyrene(XPS), Polyethylene, Cross-Linked Polyethylene, Polypropylenes, and many other foamed plastics and materials can be easily cut with SP-7H Hot Knife. Check with the foam manufacturer for safe and proper cutting procedures.

## Blade Installation

**NOTE:** Always unplug the power cord of the SP-7H Hot Knife before installing or removing the blades. Allow sufficient cooling time for blades, blade holders and mounting crews before handing.

**Caution 1:** The SP-7H blade have a sharpened razor edge, for the cleanest cut always cut in the direction on the sharpened edge.

### STRAIGHT BLADE:

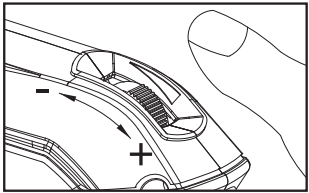
1. Loosen the screws on the blade holders with the wrench.
2. Slide the blade under the square pressure plates until snug.
3. Securely tighten screws to assure the proper electrical connection. Do not over-tighten.
4. Once the blade is firmly in place, plug the SP-7H Unit into a standard 100-120 volt power supply.
5. The temperature control knob has 16 click setting that correspond to the graduated ridges on the surface. The smaller the ridge the lower the power setting.

6. The temperature control knob has 16 click setting that correspond to the graduated ridges on the surface. The smaller the ridge the lower the power setting.

**Caution 2:** Please keep no anything at the Air intake, not cover the Air intake; Excessive power output and heat generation may cause the blade holders to overheat resulting in damage to the unit. Use only the power output for proper cutting. The blade does not need to be red hot to move through foamed plastics.

---

## Operation



Put your temperature control knob at midrange setting, place the blade against the edge of the foam and depress trigger. Optimum cutting should be virtually smoke free.

**NOTE:** For the best results, practice on scrap pieces of foam.

When cutting foam it is best to keep the temperature and speed consistent. If smoke develops during the cut, you are cutting too slow or the blade is too hot which could result in an oversized, uneven cut. This can be remedied by lowering the temperature and intermittently releasing the trigger during your cut. As the cutting resistance increases, depress the trigger again. The KD-7H Hot Knife will reach the set temperature within seconds. You can accomplish your cut with minimal smoke using this process. Cutting in this manner will also prolong the life of the knife.

Releasing the trigger approximately one or two inches prior to the completion of the cut will help keep the blade clean and free from buildup

The selected cutting blade should not be longer than 3/4" past the thickness of your foam board. The foam cools the blade as it cuts. The exposed portion can overheat and cause your blade to warp.

### Guidelines and Caution 3:

1. Consult foam manufacturer's MSLS sheet for flash points and toxicity of material you will be cutting.
2. Always operate the SP-7H Hot Knife in well ventilated space.

3. Never burn off excess residue on the hot knife blade. The blades will overheat, warping the blade and potentially overheating the SP-7H Hot Knife.
4. Only operate SP-7H Hot Knife when it is in contact with the insulation board.
5. Keep hot blades away from skin, clothing and other flammable materials.
6. Allow blades to cool before handling. A hot blade may cause injury or burns to exposed surfaces.
7. This tool is not suitable for people with, health issues, sensory or mental impairment.
8. This tool is not intended for children.
9. Operate electric tools as instructed. Use gloves and appropriate safety gear when using electric tools. Store electric tools in a dry place when not in use. Do not use electric tools in damp or wet locations.

---

## Maintenance

Constant use of the SP-7H Hot Knife may result in polystyrene material build up on blades and the brass holders. This excess polystyrene interferes with the proper electrical and impairs the performance of the blades. The brass blade holders and blades can be thoroughly cleaned with a wire brush. Always inspect your device before use. Do not use if the power cord is damaged. Tool should be repaired by a certified electrician to avoid injury.

---

## Specification

- **INPUT:** 100-120Volts 50/60Hz
- **OUTPUT:** 200 Watts
- **Continuously Operation is workable**
- **WEIGHT:** 720 g
- **LENGTH:** 355 mm
- **WIDTH:** 65 mm
- **TEMPERATURE:** 500 °C