



HERCULES®

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SC-190

Hot-Knife Cutter
for Styrofoam



Designed for intermittent-use cutting of Expanded Polystyrene (EPS), Extruded Polystyrene (XPS), Polyethylene, Cross-Linked Polyethylene, Polypropylene, and many other foamed plastics and materials can be easily cut with the SC-190 Hot-Knife Styrofoam Cutter. Always check with the foam manufacturer for safe and proper cutting

CAUTION

Please read this entire instruction manual carefully before first operation and keep it handy for future reference. Pay special attention to the safety prompts and follow all guidelines outlined herein to avoid damage to the tool, injury to yourself or others, or damage to property.



VERY IMPORTANT

The Hercules SC-190 Hot-Knife Cutter is designed for intermittent use only, IT IS NOT DESIGNED FOR CONTINUOUS USE. It is important that you use the unit no longer than 15 seconds and then let it thoroughly cool for 45 seconds.

If you need a continuous-use hot-knife please check out the Hercules SC-590. The SC-590 is a styrofoam hot-knife cutter with a built-in cooling fan so it can run continuously without overheating. The Hercules SC-590 is available at www.herculescutters.com.

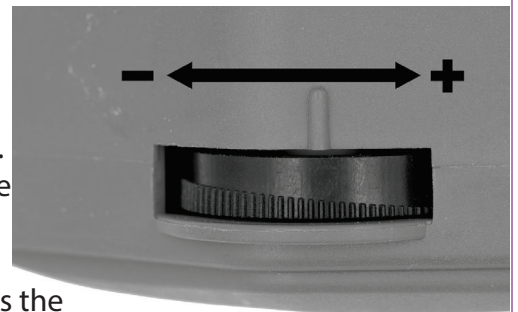
OTHER PRECAUTIONS

- The SC-190 Hot-Knife blades have a sharpened razor edge. For the cleanest cut, always cut in the direction on the sharpened edge.
- 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.
- Consult foam manufacturer's MSDS sheet for flash points and toxicity of material you will be cutting.
- Always operate the SC-190 Hot-Knife in a well ventilated space.
- Never burn off excess residue on the hot knife blade. The blades will overheat, warping the blade and potentially overheating the cutter.
- Only operate the SC-190 Hot-Knife when it is in contact with the fabric.
- Keep hot blades away from skin, clothing and other flammables.
- Allow blades to cool before handling. A hot blade may cause injury or burns to exposed surfaces.

OPERATION

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

When cutting, 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. Your SC-190 Hot-Knife will reach the set temperature within seconds. You can accomplish your cut with minimal smoke by 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.

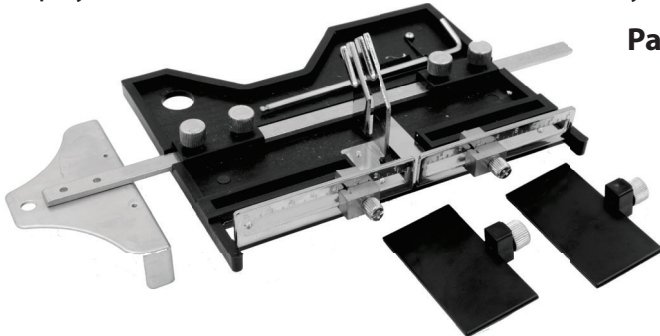
The selected cutting blade should not be longer than 3/4" past the thickness of your foam board. The foam cools the blade as it cuts. The exposed portion can overheat and cause your blade to warp.

Never use a metal bar as a guide. If the blade touches the metal guide the heat from the blade will be dissipated by the metal guide. This will lower the heat of the blade and affect its cutting quality.

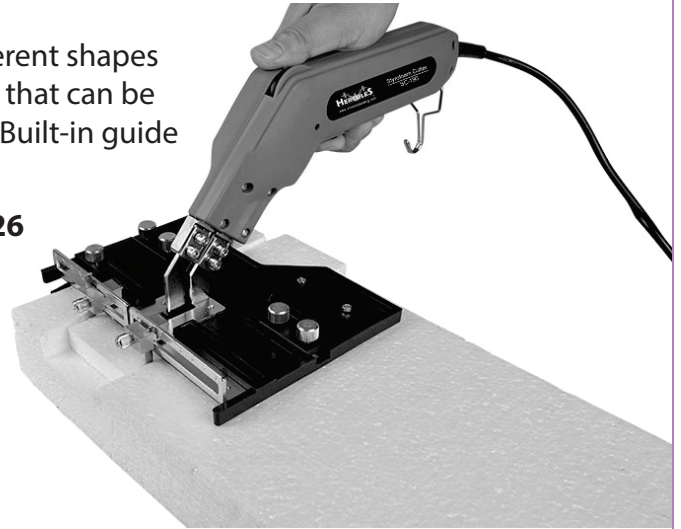
CUTTING ACCESSORIES

SLED

This hot-knife sled enables you to make thousands of different shapes and elaborate cuts by using our flat 12" blade (Part# 7729) that can be custom shaped with our wire bending pliers (Part# 7740). Built-in guide helps you make a smooth and accurate cut every time.



Part # 7726



CUTTING GUIDE



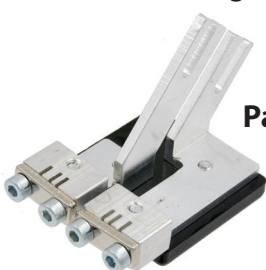
This hot-knife cutting guide allows you to set the exact angle you desire. Helps you make a smooth and accurate cut every time.

Part # 7725

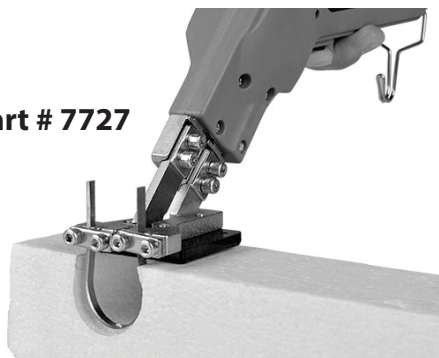


GROOVER PLATE

The 1.5" groover plate accommodates hot knife blades 1.5", 2" and 2 3/8" wide. Make your own hot knife U, Square and V blades from our flat 12" blade (Part# 7729). Excellent for cutting grooves in foam located in tight areas!



Part # 7727



POST-MOUNT ADAPTER

Also known as a German adapter, this 2-piece accessory allows you to adapt your hot-knife to use post-mount style blades.

Part # 7730

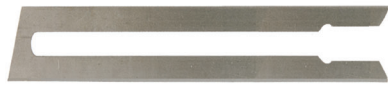


BLADES & BLADE ACCESSORIES

3 Inches
(75 mm)
Part # 7721



4 Inches
(100 mm)
Part # 7722



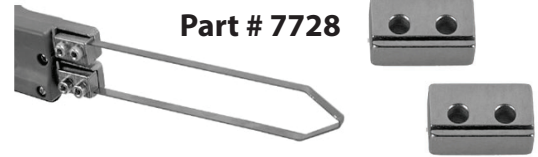
6 Inches
(150 mm)
Part # 7723



8 Inches
(200 mm)
Part # 7724



BLADE HOLDER for flat blade (Part#7729).
Size and shape blade to your desired cut.



Part # 7728



Our stainless steel **BLADE PLIERS** make it easy to form our 12" Flat Blade (Part# 7729) for any custom cut or pattern.

Part # 7740

Flat Blade 12 Inches (200 mm) **Part # 7729**



Size and bend blade to the shape you desire using our stainless steel blade pliers (Part# 7740)

BLADE INSTALLATION

IMPORTANT: Always unplug the power cord of the SC-190 Hot-Knife Cutter before installing or removing the blades. Allow sufficient cooling time for blades, blade holders and mounting screws before handling.

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 your SC-190 Hot-Knife Cutter unit into a standard 110 volt AC power supply.
5. The temperature control knob has 16 click setting stops that correspond to the graduated ridges on the surface. The smaller the ridge the lower the power setting.

SPECIFICATIONS

Input: 110 Volts AC
Output: 190 Watts
Weight: 10 Ounces
Length: 10¼ Inches
Width: 2 Inches
Temperature: 600°+

MAINTENANCE

Regular use of the SC-190 Hot-Knife Synthetic Materials Cutter may result in material buildup on blades and the brass holders. This excess material interferes with the proper heating and impairs the performance of the blades. The blade holders and blades can be thoroughly cleaned with a wire brush.

LIMITED WARRANTY

The SC-190 Hot Knife Styrofoam Cutter is warranted to be free of defects in material and workmanship under normal use for a period of 60 days from the date of purchase.

Liability is limited to repair or replacement of material found defective, free of charge F.O.B. St. Louis, MO. Unauthorized repairs, modifications, or replacements will not be subject to factory warranty.

Except as contrary to State or Federal laws, Universal Sewing Supply shall not be liable to any party for loss, injury or damage, whether direct, indirect or consequential arising out of or the inability to use the equipment or other products made, repaired or sold by Universal Sewing Supply or any of its distributors.