

IMPORTANT SAFEGUARDS

When using Electric Tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, or death including the following:

- 1) Read all instructions.
- 2) Use Hot Wire tools only for their intended use. Use **only** with polystyrene foams. Use on other materials could cause toxic fumes fire or electric shock.
- 3) Use only in well ventilated areas. Open nearby windows or doors, or use an exhaust fan. If you see or smell smoke coming from the foam, turn the heat control knob down to the proper melting temperature.
- 4) Wear eye protection at all times the Hot Wire tools are plugged in.
- 5) Do not allow cord to touch hot surfaces. Never carry tool by cord or yank it to disconnect from outlet. Do not allow cords to touch the cutting wires or knife- this may short them and produce fire or electric shock.
- 6) Close adult supervision is necessary for any tool being used by or near children. Unplug Power Supply before leaving it unattended.
- 7) When not in use, tools should be stored in dry, and high or in locked up place-out of reach of children.
- 8) Don't expose electrical tools to rain. Don't use electrical tools in damp or wet locations. Prevent body contact with grounded surfaces. For example: pipes, or radiators.
- 9) Do not operate Hot Wire tools in the presence of explosive and/or flammable fumes or materials.
- 10) Burns can occur from touching the hot cutting wire when it is at normal operating temperature. The Engraving Tool stays very hot for several minutes after the tool is turned off. To reduce risk of burns never touch metal parts of the tools. Never set tools down while they are turned on, as they can cause a fire and short out.
- 11) Disconnect power cord when changing cutting wire or fuse. Follow the instructions for proper replacement of fuses and cutting wires.
- 12) Cutting wires and fuses are the only user serviceable parts. Only use special factory provided cutting wires. Replacing with the wrong kind of wire will ruin your unit, and could cause a fire. For any other repair or adjustment return your unit to the factory. Inspect your unit periodically for worn or broken parts.

LIMITED WARRANTY

This product is warranted for non commercial use within the fifty states of the USA and the District of Columbia as follows: For 90 days from the original date of purchase, HWFF INC. will, at its option repair or replace a defective unit free of charge, if the unit is defective due to an original manufacturer's defect.

This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, accident, misuse, abuse or neglect. Except as herein expressly set forth, HWFF INC. shall not, under any circumstances be responsible for any direct, indirect, incidental or consequential damage resulting from the use of the equipment. The consumers' sole remedy shall be such repair or replacement as is expressly provided above.

SHOULD YOUR UNIT REQUIRE SERVICE, please call us at 805-735-9255 for a return authorization number and further instructions.

Hot Wire Foam Factory

16" Table Instruction Booklet



Toss out the rules.

*Our 3D Scroll Table will bring you
to new dimensions in controlled creativity.*

Built for professional modelers, our combination Scroll Table, Router, Lathe, and Milling Machine comes in one versatile tool kit.

Your boundless imagination is the only limit to what can be made with this incredible new foam cutting machine.

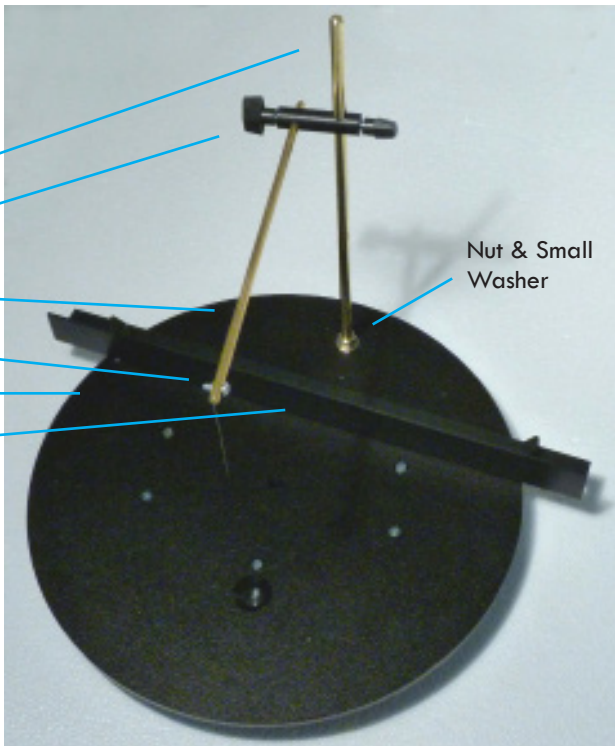
The ultimate multiuse modeling machine.

- Quick and easy straight, freehand or template cutting.
- Change direction of cut instantly.
- Includes Stationary Fence for controlled slicing.
- 11.5" Vertical Blades allow unlimited length horizontal cuts.
- Ultra fine Precision Blades slice foam paper thin.
- 10" Router Blades for contoured moldings of unlimited length.
- Router Blades can be bent with fingers to any shape.
- Angle adjustment of all blades is infinitely variable.
- Unique Travelling Fences for controllable complex angles.
- Vertical Lathe for cylinders, cones, dimensional columns.

www.HotWireFoamFactory.com

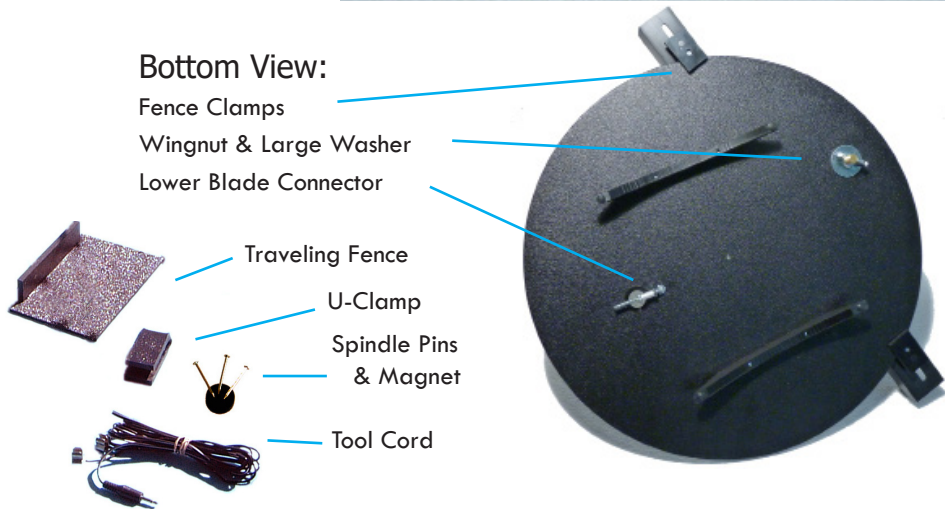
PARTS

Vertical Post
Post Clamp
Horizontal Post
Blade Connector
16" Diameter Table
Stationary Fence



Bottom View:

Fence Clamps
Wingnut & Large Washer
Lower Blade Connector
Traveling Fence
U-Clamp
Spindle Pins & Magnet
Tool Cord



HOT WIRE BLADE CHOICES

Precision This thin 8" Hot Wire Blade is for precision cutting.
Long This long 11.5" Hot Wire Blade is for cutting tall pieces of foam.
Router This thick 10" Hot Wire Blade can be made into any shape desired.
Ribbon This flat 10" Hot Wire Blade is for making long molding type shapes.

VERTICAL LATHE

Setup

This setup is similar to Cones and Cylinders except use a Router Blade instead of a Long or Precision Blade.

Mount the Blade. Press one of the supplied Lower Spindles (small pin) through one of the holes in one of the Traveling Fences. Push this spindle through the center of your foam. Set the Traveling Fence against the Stationary Fence and move it close to the Super Router Blade. Turn on the Power Supply and slide the foam into the Blade just shy of the desired depth. If it's a tall piece of foam pull the Horizontal Arm without the blade above the center of the top of the foam and lightly screw the Spindle

into the foam. Now slowly turn the foam one full circle. If you go too fast you will pull the Router Blade out of shape. Turn off the power and peel off the outer shell. If you are satisfied with the results turn the power back on, but not too high, slide the foam all the way to the desired depth, use the U-Clamp to clamp the Traveling Fence to the Stationary Fence, and make the final cut. This advanced technique takes practice. You will produce some cool shapes while in the process of learning, so be patient and enjoy the creative process as it unfolds.



Scalloping: Set up the Vertical Lathe, but don't clamp the Traveling Fence. Move the Lathe in and out at regular intervals while turning the foam. You might want to make guide marks on the foam.

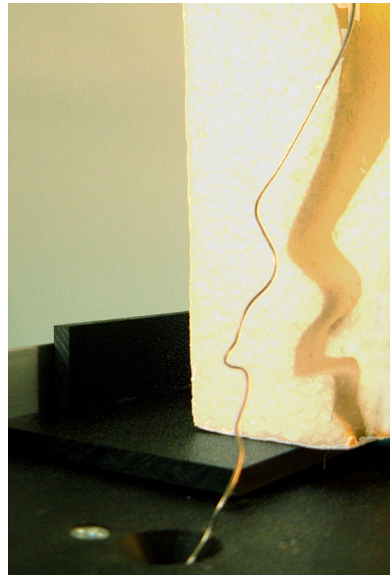
Spiralling Columns: Make a foam column. Spiral a length of masking tape from top to bottom. Mount the Router Blade with the desired shape pointing toward the back of the Table. Lay the column horizontally against the Stationary Fence. Turn on the Power and push the Fence and column so the Blade enters one end of the column to the desired depth. Clamp the Stationary Fence in place. Slide the column along the Fence and roll it at the same time using the tape as a guide until the Blade exits the bottom of the column. With some practice you will be making beautiful spiralled columns.

ROUTER

Routing

Mount one end of a Router Blade to the Blade Connector under the table and connect the upper end of the Router Blade to the short screw on the Horizontal Post 2. Tighten down both ends with nuts. Leave the Post Clamp loose so it can be adjusted up or down and in or out while bending the Router Blade into the desired shape. Tighten the Post Clamp after you have finished shaping the Router Blade.

You are now ready to turn on the power and make shaped cuts.

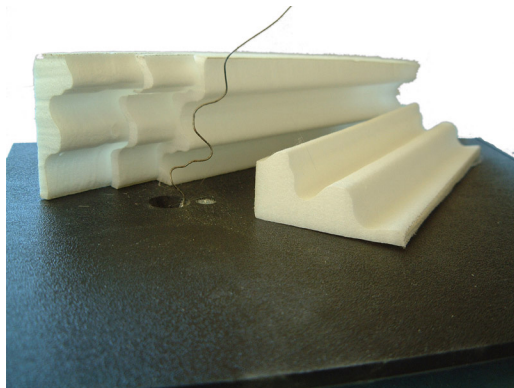


Ribbon Blade

The Ribbon Blade is usually used for making long shaped cuts, like crown molding. Mount and shape it just like you would the Round Blade, but with the narrow part of the blade facing into the cut. The Ribbon Blade holds its shape better and does faster unidirectional cutting. Try this blade for making long straight cuts too.

Molding

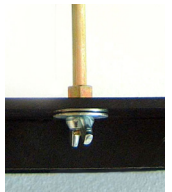
Make a long rectangular strip of foam using the Stationary Fence and a straight Blade. Mount a Router or Ribbon Blade to the lower Blade Connector and tighten down with the nut. Bend the Blade into the desired shape. Position Horizontal Post 2 so the Blade mounts into the mounting screw and tighten down with the nut. Position the Stationary and/or the Travelling Fence. Slide the foam through the blade. Also see sections on Infinite Cuts and Gravity Table.



ASSEMBLY

Vertical Post

Screw the Nut onto the threaded end of the Vertical Post, then slide the Small Washer onto the threads and insert the Post vertically into the mounting hole in the rear of the Table. Slide the Large Washer and then the Wingnut onto the Post under the Table and tighten the Wingnut by hand. Now slide the two Post Clamps onto the Post so they point towards the back right corner of the Table. Lightly hand-tighten the knobs that lock the Post Clamps to the Vertical Post. Over-tightening will knurl the shaft.



Horizontal Post & Clamp

Now slide the two horizontal shafts through the open Post Clamp holes. No need to tighten these yet. The Horizontal Posts should point toward the front of the Table.



Cutting Blades



- Precision Blade
- Long Blade
- Router Blade

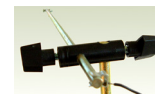


Pull Horizontal Post 1 out of the way. Thread the Precision Blade through the large hole in the Table and slide the Blade's end connector onto the Lower Blade Connector. Hold the top connector straight up and adjust the Horizontal Post 2 so that the Upper Blade Connector is 1 inch above the Blade. Pull the end of the arm down and insert the Connector screw through the Blade's ring. The tension will hold the blade in place with or without the Connector nuts. You can adjust the Blade in-and-out or back-and-forth to the get any angle. Lightly tighten the Post Clamp.



Tool Cord

Press one electrical connector onto Horizontal Post 2 behind the Post Clamp. Pull the other connector under the Table then onto the Lower Blade Connector's round receiver. Plug the Tool Cord into the Power Station and start cutting. Never let the two connectors touch each other. Never attach both connectors to the same post. Always disconnect Tool Cord from the Pro Power when connecting or disconnecting from the Post Clamps.

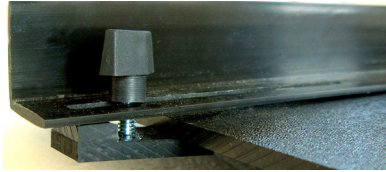


FENCES



Vertical & Angle Cuts

Place the Stationary Fence the desired distance from the Blade and tighten the Fence Clamps to the Table. By adjusting the Blade to the desired angle, you can make straight or angled cuts. Turn on the Power and slide the foam across the Blade, keeping the foam pressed lightly against the Fence.



Infinite Cuts

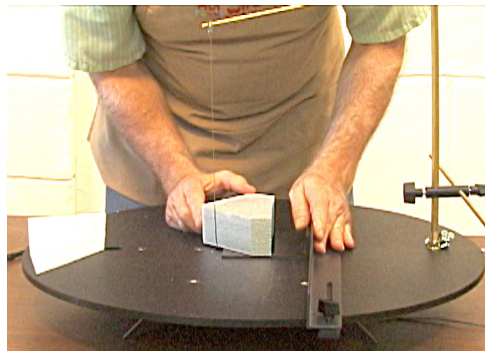
Place some supports at Table height on both sides of the Table. You can cut any length foam because the round Blades allow you to cut in any direction.

The Cloner

Cut your shape from a thicker than needed piece of foam. Place the Stationary Fence the desired distance from a vertically mounted Blade. Slide the foam along the Fence. Move the Fence closer to the Blade and cut the next slice. Keep repeating until you run out of foam. This set-up can make paper thin slices. Plus, flipping one of the cut slices over gives you a mirror of your pattern.

Traveling Fence

These are used to cut complex angles, where your foam pieces do not have an existing straight-edge parallel to the edge to be cut. A piece of foam can be placed onto the guide at any angle. Set the Travelling Fence with its back flat against the Stationary Fence. Push 3 of the Spindle Pins up through the holes in the Fence, and push the foam to be cut onto the Pins at the desired angle and distance in relation to the Blade and Stationary fence. You might have to adjust the Stationary



Fence closer or farther from the blade at this time. The smaller of the Traveling Fences will work for small to medium size pieces of foam. The small Fence can also be turned upside down and run along the edge of the table when cutting small pieces.

CONES & CYLINDERS

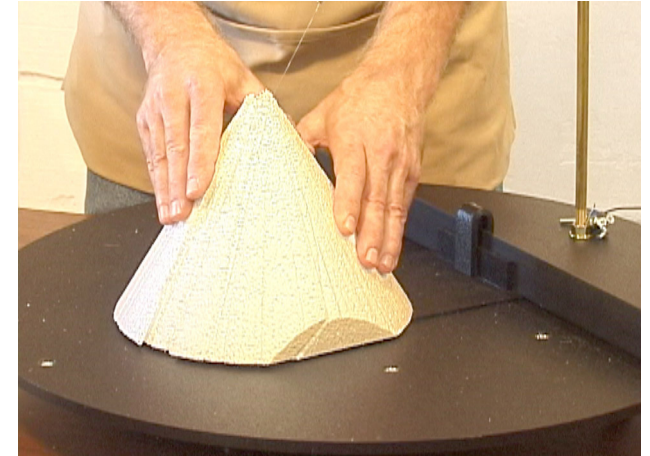
Bottom Fence Spindle

Push one of the Spindle Pins up through one of the small holes in one of the Travelling Fences. The larger Travelling Fence is for big pieces of foam. Set the Travelling Fence down on the 3D Table. Push the foam you wish to cut onto the Spindle Pin, making sure the Pin goes through the center of the foam.

Choose the Long or Precision Blade and mount it to the Horizontal Post 1, and to the Lower Blade Connector under the Table. Keep it at right angles to the table if you want to make a cylinder. Mount it at the desired angle if you wish to make a cone.

Turn on the power and push the foam, Fence and all, toward the blade, stopping when you get to the desired depth. Turn off the power, clamp the Fence to the Table, then U-Clamp the Travelling Fence to the Stationary Fence. Turn the power back on and finish your cut.

It's a good idea to make the first cut a little shallow, remove the outside layer of foam, then make the final cut at the desired depth.



Negative Cuts

A traditional lathe pulverizes the outside layers. The 3D Table will only leave one thin cut in the outer layer where the blade enters and exits, leaving you with a usable negative of your cylinder or cone.

FOOTSWITCH

Only Included With International Pro Power



Leaves both hands free. The power stays on only while you hold your foot down on the switch. Can be purchased separately.