



# MEGAPLOT

FOAM CUTTERS & ROUTER TABLES PRODUCER



**The Best Selling  
Most Versatile, Reliable and Affordable  
Foam Cutters in the World**



**Longvalley Packaging Ltd.  
6 Atcost Road, off River Road  
Barking,  
Essex IG11 0EQ**

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over 900 units sold worldwide since 1995

## What is a foam cutter?

The MEGABLOCK foam cutter is a machine controlled by a computer capable to cut out any 3D objects out of extruded and expanded polystyrene foams. Cutting is done by a hot wire moving in the X-Y plane through the use of a micro stepping motor controlled by a computer. This allows for making fast and precise cutting of the foam material.

The precision control makes it possible to cut objects of nearly any shape given that their thickness is to be the same as the thickness of material used. By designing and cutting various views of one object it is also possible to construct even more complicated 3D objects. Through the use of a turntable (an additional equipment available with our foam cutters), one can also cut out all the solids of revolution, including the sphere.



For more information regarding these and other elements (e.g. Shapeable Wire Tool), please see the following pages.

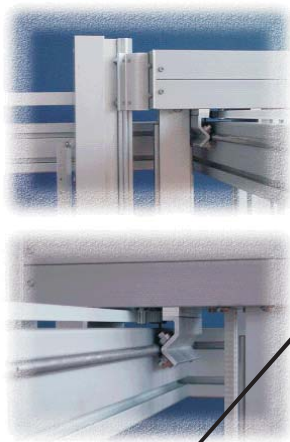
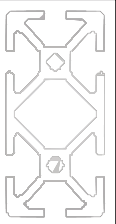
There are up to 8 **Micro-Stepping Motors** in each of our foam cutters — 4 for the X axis, 2 for the Y axis, 1 for TurnTable and 1 for Lathe. These high-quality 3 Amp motors guarantee great accuracy and longevity



**The Electronic Controller** is an independent unit of our own design and production responsible for the two-way communication between the foam cutter and your computer, controlling all parameters of the foam cutter.



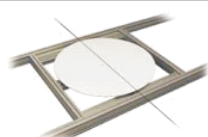
Custom-Designed Heavy Duty Anodized Aluminum Extrusion **Profiles** make our foam cutters' construction lightweight and extremely strong which enable amazing accuracy and repeatability of cuts.



**The Lathe** is a fully automatic tool controlled by FoamShaper software which lets you cut all possible solids of revolution, such as columns, banisters etc. The material is mounted on a steel spikes located on a spike plate and on a lathe tail-stock.



Fully automatic **TurnTable** controlled by our FoamShaper software makes it possible to cut rotary figures, such as columns or spheres.



**The Wire/Fan Housing** is where the straight cutting wire is mounted. The box holds a fan which cools the wire while cutting and a special spring compensating for hot wire stretching.



Introduced in September 2003, this High Strength Alloy **Wire** is composed of Nickel, Chrome, Cobalt, Molybdenum and Titanium. It provides great tensile strength and lets you cut with very high speeds and lasts for a long time. Depending on the machine, we offer the following dimensions: 0.25, 0.45 & 0.55mm



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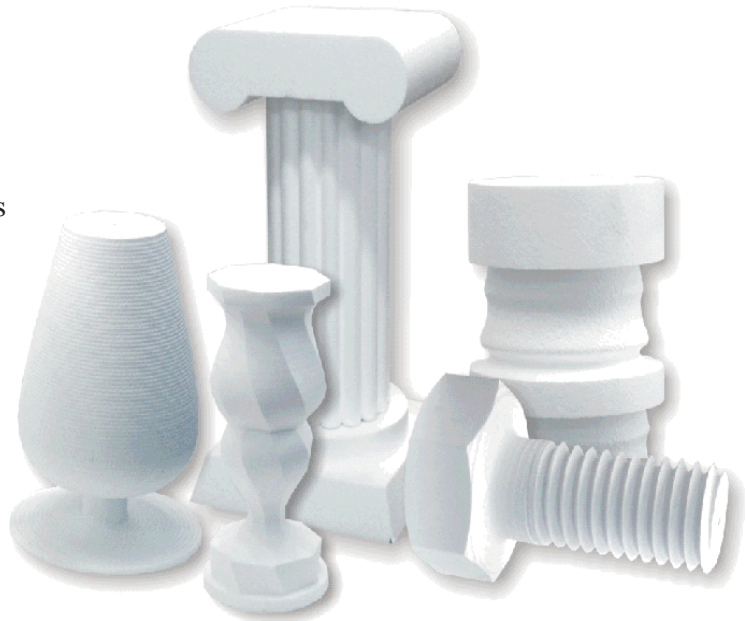


*over 900 units sold worldwide since 1995*

## What are foam cutters used for?

**Foam cutters can be used for a variety of cutting applications. They can cut virtually anything out of expanded and extruded foam—your imagination is the only limit. You can use a foam cutter for:**

- Complicated 3D Logos
- Sign Letters
- Graphics
- Architectural Shapes
- Architectural Scale Models
- Fair Stalls
- Film or Theatre Props, Shapes and Backdrops
- PreCast Concrete Molds
- Pipe Insulation
- Columns
- Store Props & Displays
- P.O.P. Displays
- Prototype Products
- All kinds of Packaging
- Theme Props
- Amusement
- Hobby & Crafts



### 3D MASSES

How many times have you faced the problem of making complicated 3D logotypes? And all the already known methods seemed to be unsuitable or too expensive? MEGABLOCK will do everything - your imagination is its only limit.

### FAIR, THEATRE AND FILM DECORATIONS

There is no machine as useful as MEGABLOCK when building fair stalls and film or theatre decorations. Its speed and cutting precision allow creating every set and stage design in short time and without spending a lot of money.

### ARCHITECTURE ELEMENTS

Styrofoam architecture details (moulds, finials, banisters, keystones, parapet caps, balusters) covered with strengthening nets and stuccoes are becoming very popular, due to their light weight, easy assembly, precision of realization, price and the fact that they are environmentally friendly.

### CASTING FORMS

One of the interesting uses of a foamcutter is the production of positive forms used for moulds, in moulding sand, of details from cast-iron and colored metals (e.g. aluminum, bronze). This method of production is cheaper and far more precise than the traditional ones.

### PACKAGES

Our machine is irreplaceable in a short -series production of foam packages used to ensure safe transport of electronics and museum or fair exhibits.



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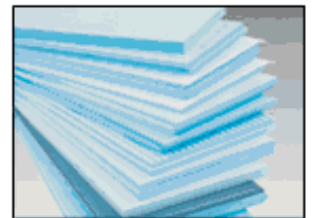
## Foam Information

There are two kinds of foam suitable for our foam cutters: extruded polystyrene and expanded polystyrene.

Expanded polystyrene foam is perhaps the more common one in everyday life — it is the white foam found in drink cups, coolers, insulation, product packaging, etc. It is made up of over 95 percent air and less than 5 percent of polystyrene. The styrene pellets are heated with steam so that they expand rapidly and form a block of low density foam. This kind of foam is cheap and light—it usually weights between 15 -30 kg per cubic meter. Although it does not degrade under normal circumstances, it is being often recycled.



Extruded polystyrene foam has the same chemical composition as the expanded polystyrene foam, yet it is manufactured in a different way, and as a result this foam — having smaller air pockets — is denser and more homogenous. It is often pink, blue, green, etc. The extruded polystyrene foam is perfect for making any kind of displays.



Why foam?

There is a number of reasons for which the above two kinds of foam have such a wide range of applications.

E.g. foam is:

- Cheap
- Light
- Perfect for both indoors and outdoors
- Suitable for a variety of coatings (water -based paints, cement-based coatings, metal coatings)
- Durable—if coated properly, can last for a long time



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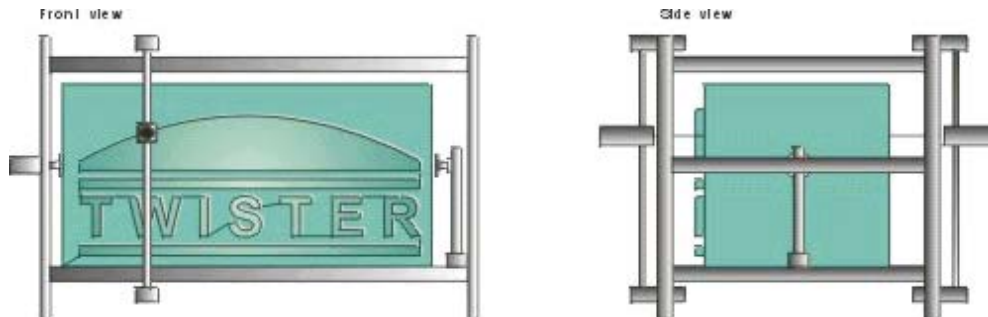


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## How does a foam cutter work?

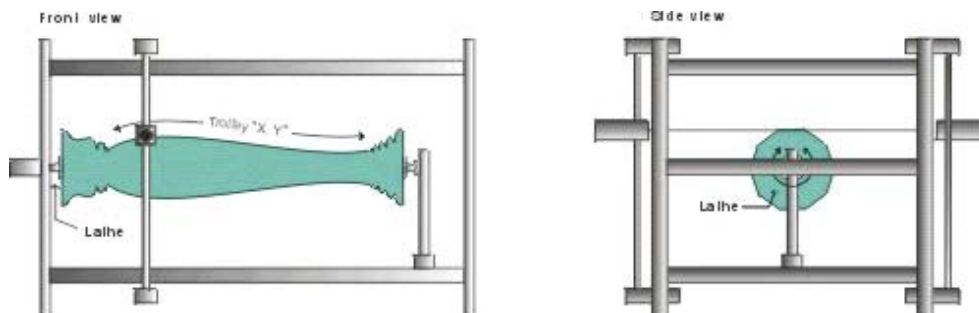
### Cutting with Straight Wire

In the picture below you can see a foam cutter cutting an inscription (logo) in a block of Styrofoam. The trolleys with a resistant wire spread between move freely in X and Y axis according to a drawing that has been generated e.g. in Corel. The third dimension corresponds exactly to a thickness of a material that is being treated. This cutting method is available in all the machines we produce.



### Cutting with Straight Wire and Lathe

All our foam cutters can be equipped with a lathe tool that allows cutting of all possible solids of revolution, such as columns, banisters etc. The material that is intended for treatment is mounted on a steel spikes (spikes are located on a spike plate and on a lathe tailstock). Corel Draw software is sufficient for creating a solid of revolution project as the solid is defined with two lines only: axis of rotation and external shape. Depending on what is required, the number of solid sides is determined in a controlling software FoamShaper (ranging from 1 up to 2000). Thus, depending on a number of sides that was declared in a software one can obtain for ex. four -sided column or six -sided column etc. If the number of sides is big enough one can obtain a perfectly smooth surface. While cutting a solid sides a lathe is also able to perform a rotational movement - it results in a spiral cutting line.





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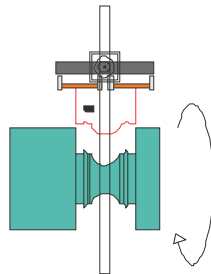
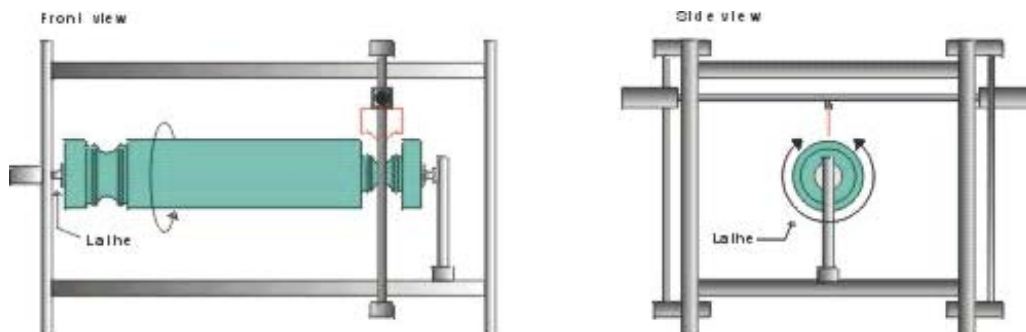
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## Cutting with Shapeable Wire and Lathe

In all our foam cutters there is a possibility of replacing a straight resistant wire with a shapeable wire tool. With a properly shaped bent wire that is mounted in a shapeable wire tool and with a use of a lathe rotational movement you can do the incisions of any given shape in the previously prepared Styrofoam blocks. You can also make a longitudinal incisions (chiseling) taking advantage of the trolleys movement in X and Y axis



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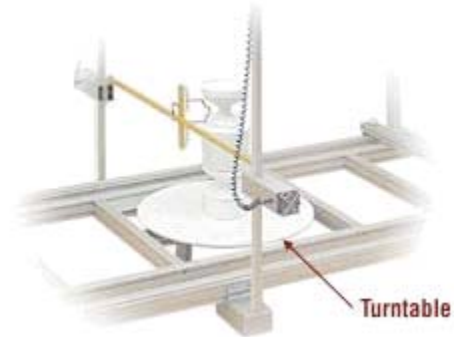
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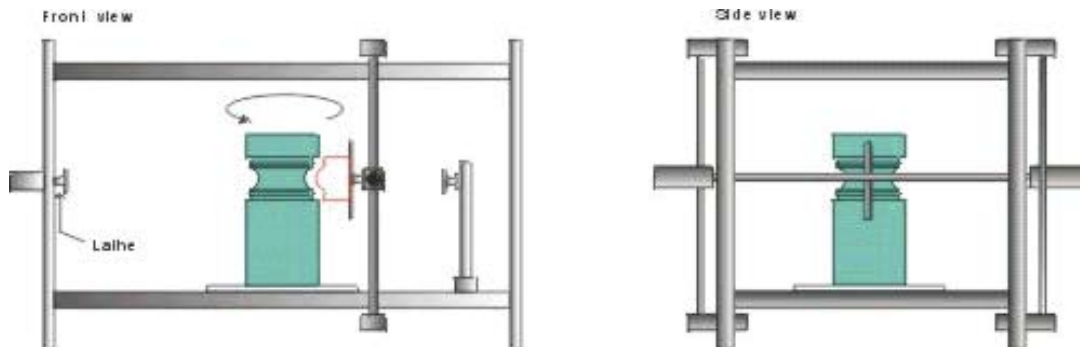
## Turn Table

All our foam cutters can be equipped with a Turn Table - a very useful and offering unlimited possibilities device enabling you to cut out all the solids of revolution, including the sphere. The Turn Table is computerized and works in unison with the Hot Wire to produce "flat" 3D objects



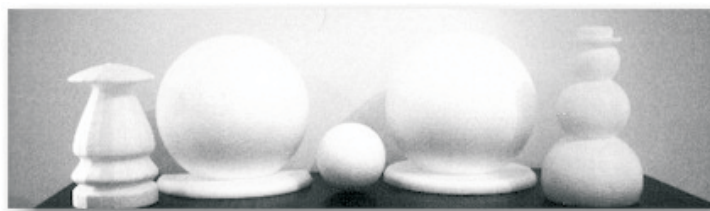
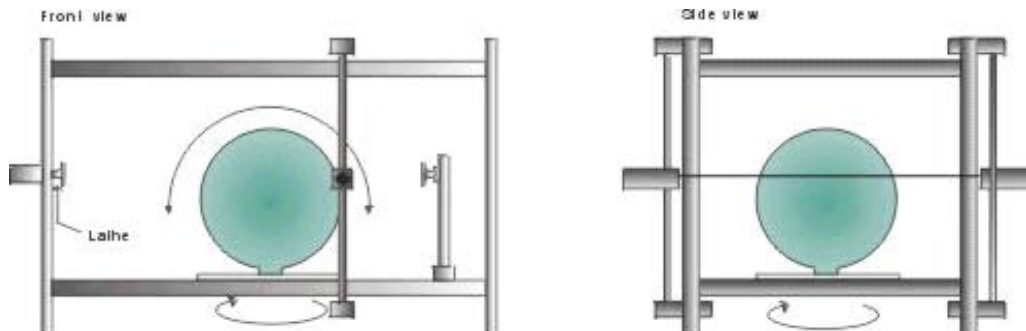
## Cutting with Turn Table

Cuts done with Lathe and Shapeable Wire can also be done with Turn Table and Shapeable Wire



## Cutting with Turn Table and Straight Wire

With the use of a turntable and a straight resistant wire you can also cut a sphere and all similar shapes.





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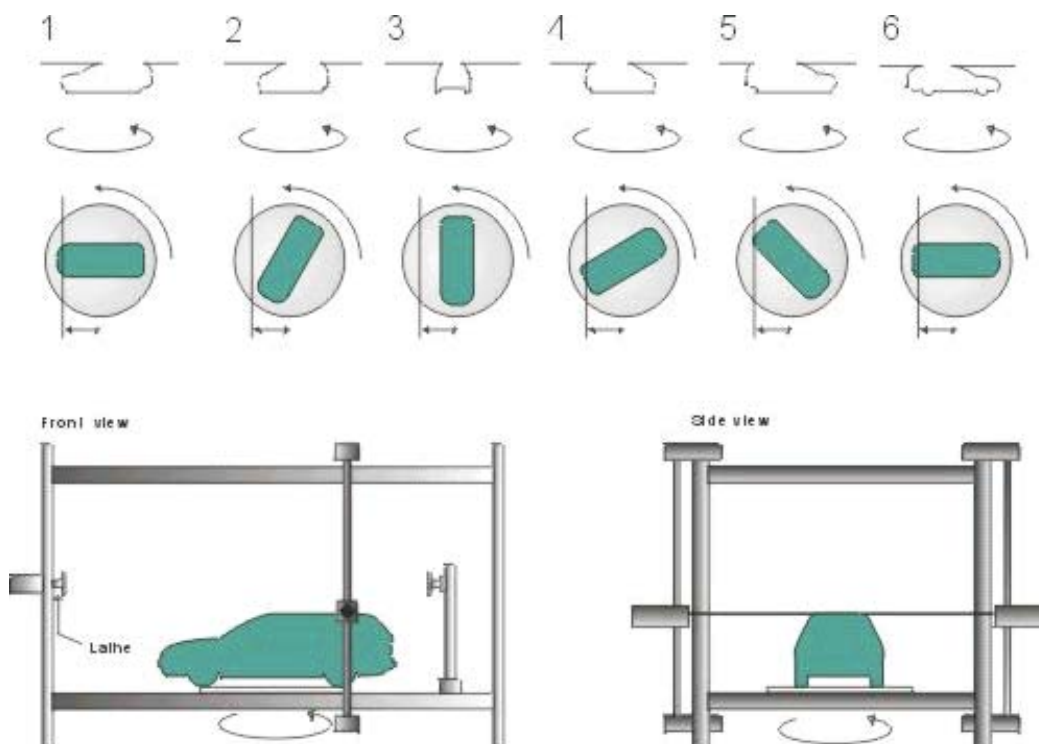
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## Serial Cuts

FoamShaper software (standard for all foam cutter models) allows automatic serial cutting of multi -various objects/solids. The drawings (side views) can be created in Corel Draw. You may use pictures from a digital camera (converted to HPGL.plt files) for drawing preparation. This method (although time -consuming) gives perfect opportunities of creating almost any 3D object.



The Electronic Controller is a unit responsible for the two -way communication between the foam cutter and your computer. It controls all the parameters of the foam cutter including the temperature, motors activity, etc. In the back of the controller there is a number of sockets where you plug in your Foam Cutter, Turn Table, Lathe and Shape Wire Tool. There is also a serial port which you use to connect your computer to the electronic controller. The controller has its own 4MB of RAM memory and can be supplied by either 220V or 110V.



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**NEW**

## Multi-Wire Feature standard in:

up to 10 wires cutting simultaneously

The Professional series **MW 1300**

The Professional series **MW 2500**

The Multi -Wire Option enables you to use as many as 10 wires at the same time. These 10 wires can be as close to each other as app. 2cm; however, this distance can be increased to 12cm. Also, you may choose to use e.g. only 2 wires, in which case you can cut 2 elements 61 cm high each.

In order to cut with up to 10 wires, the entire construction of the machine is altered. First of all it is strengthened so it remains stable regardless the size and weight of the material, as well as the fact that the trolley go up above the machine. Also, special planetary transmission is used in order to enable a significant increase in the motor torque. Besides, all the cables are placed in special slides so they do not interfere during cutting.

Imagine the time and cost you can save with the Multi-Wire Option.

Up to 10 identical projects cut simultaneously.



## Double-Wire Option available with:

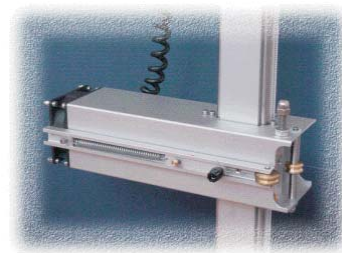
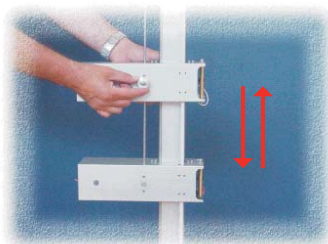
The Professional series **MEGABLOCK T 610**

The Professional series **MEGABLOCK T 1300**

The Professional series **MEGABLOCK T 1500**

The Professional series **MEGABLOCK T 2500**

In the Double-Wire Option, there is an additional Wire/Fan Housing placed above the standard one. This means you can cut with two wires simultaneously. The height of the extra Wire/Fan Housing can be adjusted so that the distance between the two cutting wires can be set as any value between 95mm and 610mm.



The Wire/Fan Housing is where the straight cutting wire is mounted. The wire is attached to a special spring which compensates for stretching of the wire when it becomes hot during cutting. Inside the housing box, there is a fan which constantly cools down the wire when cutting. The entire Wire/Fan Housing moves up and down— i.e. in the Y axis.



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## Our FoamShaper software

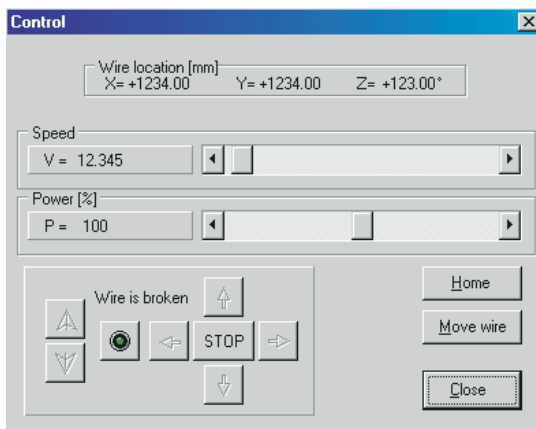
Each of our foam cutters comes with our own, in-house written complete FoamShaper software.

Apart from being user-friendly and innovative, it is also compatible with any Windows operating system on the market: 95, 98, NT, 2000 or XP.

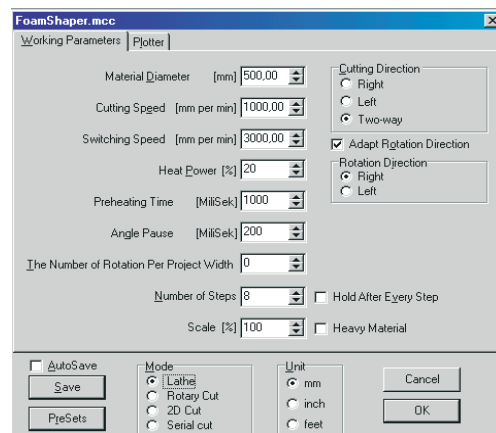
Among its numerous features, one can find the following:

- Import of HPGL files
- "Auto linking" between objects, e.g. letters
- Manual Replacement
- Scale
- Production details: cutting time, speed, temperature, material
- Cutting control procedure
- On-screen cutting simulation
- Works with any program with HPGL export e.g. Corel Draw

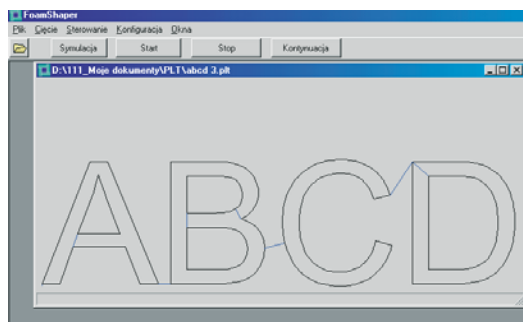
It does not matter whether you are cutting just single letters or highly complicated projects. Our FoamShaper software will help you cut just about anything in any way you want. And it is for free.



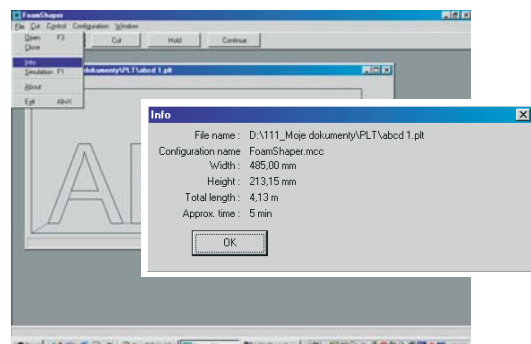
**Manual Control**



**Configuration**



**Cutting Letters**



**Project Info**



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## Technical Information

*features common to all our foam cutters*

(the following pages provide you with detailed information for specific models)

Wire Tension	automatic
Resolution	0,01 mm
Maximum Wire Movement Speed	3000 mm/min/118"/min (1000mm/min or 39"/min for Multi Wire Series)
Cooling Fans	2 micro-turbines
Numbers of Motors	6 micro-stepping motors
Machine Construction	Heavy Duty Anodized Aluminum extrusion
Safety Features	4 safety cut-off switches
Power Required	220V/50Hz or 110V/60Hz
Electronic Controller	autonomic, controlling the work of motors, equipped with two line display
Computer Requirements	Pentium class PC with a free serial port (RS232)
Computer Operating System	Windows 95, 98, NT, 2000, XP
Suggested Graphical Program	Corel Draw or any other with data HPGL export
Warranty	5 years





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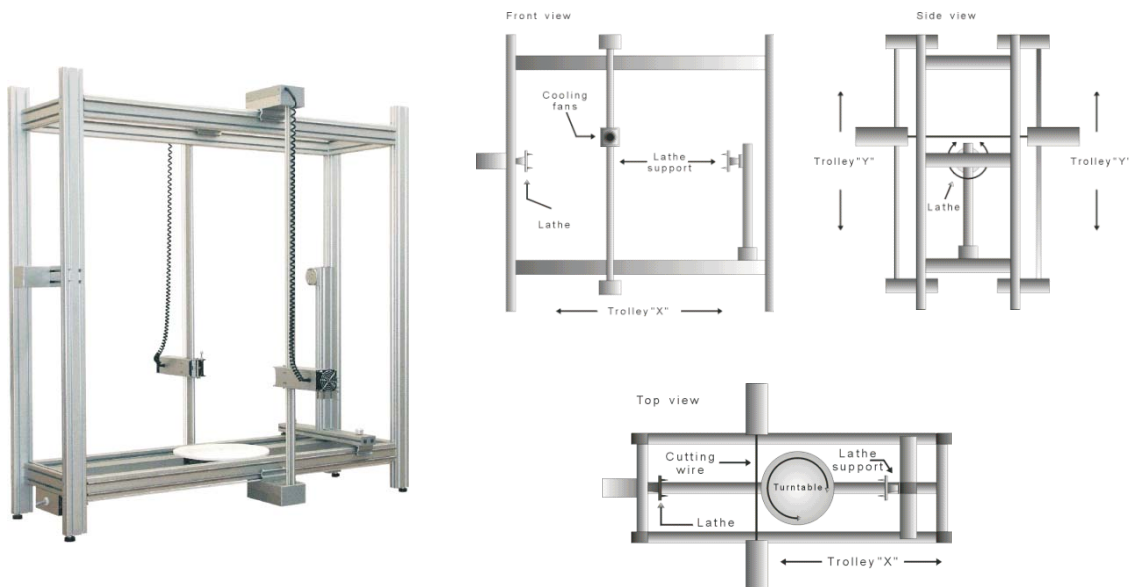
## The Professional MEGABLOCK T 610 Series

The foam cutters of the MEGABLOCK T 610 series are because of the wire length of 610 mm mainly meant for cutting letters and logotypes. The option of installing a lathe makes it also possible to use these foam cutters for cutting rotary figures, such as columns or spheres.

MEGABLOCK T 610 Series			
	T 610 Small	T 610 Medium	T 610 Large
Max. Material Thickness	610 mm (2')	610 mm (2')	610 mm (2')
Max. Material Height	1220 mm (4')	1220 mm (4')	1220 mm (4')
Max. Material Length	1290 mm (4')	2440 mm (8')	3050 mm (10')
Cutting Wire Thickness	0,15 mm	0,15 mm	0,15 mm
Max. Cutting Speed	3000 mm/min (118"/min)	3000 mm/min (118"/min)	3000 mm/min (118"/min)
Resolution	0,01 mm	0,01 mm	0,01 mm
Titanium wire	option	option	option
Turn Table	option	option	option
Lathe	option	option	option
DoubleWire *	option	option	option
Shape Wire Tool *	option	option	option

\* Shape Wire Tool is not available with the Double-Wire

		
Material: Thickness: 61 cm (2') Height: 122 cm (4') Length: 129 cm (4')	Material: Thickness: 61 cm (2') Height: 122 cm (4') Length: 244 cm (8')	Material: Thickness: 61 cm (2') Height: 122 cm (4') Length: 305 cm (10')



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## The Professional MEGABLOCK T 1300 Series

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MEGABLOCK T 1300 Series			
	T 1300 Small	T 1300 Medium	T 1300 Large
Max. Material Thickness	1300 mm (4')	1300 mm (4')	1300 mm (4')
Max. Material Height	1220 mm (4')	1220 mm (4')	1220 mm (4')
Max. Material Length	1290 mm (4')	2440 mm (8')	3050 mm (10')
Cutting Wire Thickness	0,25 mm	0,25 mm	0,25 mm
Max. Cutting Speed	3000 mm/min (118"/min)	3000 mm/min (118"/min)	3000 mm/min (118"/min)
Resolution	0,01 mm	0,01 mm	0,01 mm
Titanium wire	option	option	option
Lathe	option	option	option
TurnTable	option	option </td <td>option</td>	option
Double-Wire *	option	option	option
Shape Wire Tool *	option	option	option

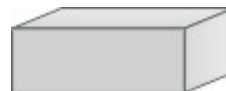
\* Shape Wire Tool is not available with the Double-Wire



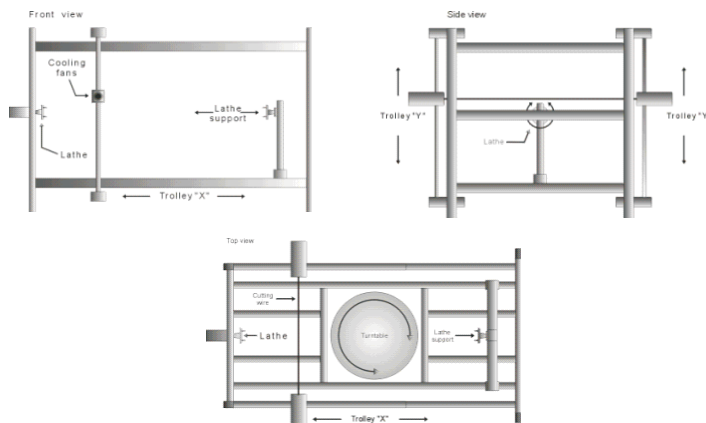
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Thickness: 130 cm (4')  
Height: 122 cm (4')  
Length: 129 cm (4')



Material:  
Thickness: 130 cm (4')  
Height: 122 cm (4')  
Length: 244 cm (8')



Material:  
Thickness: 130 cm (4')  
Height: 122 cm (4')  
Length: 305 cm (10')





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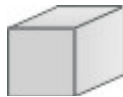
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## The Professional MEGABLOCK T 1500 Series

The foam cutters of the MEGABLOCK T 1500 series are because - of the wire length of 1530 mm - meant for cutting letters and logotypes, but there are also suitable for producing architectural details, such as moulds, finials, banisters. The option of installing a lathe makes it also possible to use these foam cutters for cutting rotary figures, such as columns or spheres. Also, thanks to the double-wire and multi-wire options these machines are perfect for serial production because of their great efficiency.

MEGABLOCK T 1500 Series			
	T 1500 Small	T 1500 Medium	T 1500 Large
Max. Material Thickness	1530 mm (5')	1530 mm (5')	1530 mm (5')
Max. Material Height	1220 mm (4')	1220 mm (4')	1220 mm (4')
Max. Material Length	1290 mm (4')	2440 mm (8')	3050 mm (10')
Cutting Wire Thickness	0,25 mm	0,25 mm	0,25 mm
Max. Cutting Speed	3000 mm/min (118"/min)	3000 mm/min (118"/min)	3000 mm/min (118"/min)
Resolution	0,01 mm	0,01 mm	0,01 mm
Titanium wire	option	option	option
Lathe	option	option	option
TurnTable	option	option "td <td>option</td>	option
Double-Wire *	option	option	option
Shape Wire Tool *	option	option	option

\* Shape Wire Tool is not available with the Double-Wire



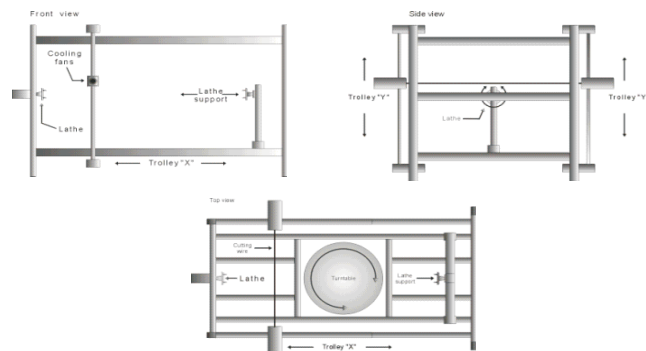
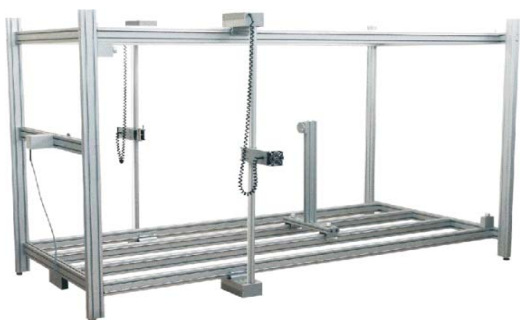
Material:  
Thickness: 153 cm (5')  
Height: 122 cm (4')  
Length: 129 cm (4')



Material:  
Thickness: 153 cm (5')  
Height: 122 cm (4')  
Length: 244 cm (8')



Material:  
Thickness: 153 cm (5')  
Height: 122 cm (4')  
Length: 305 cm (10')



*Cut Foam and Costs — Burn Foam, not Money*



Longvalley Packaging Ltd., 6 Atcost Road, off River Road, Barking, Essex IG11 0EQ

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# MEGAPLOT

COMPUTERIZED FOAM CUTTERS AND ROUTER TABLES PRODUCER

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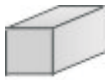


over 900 units sold worldwide since 1995

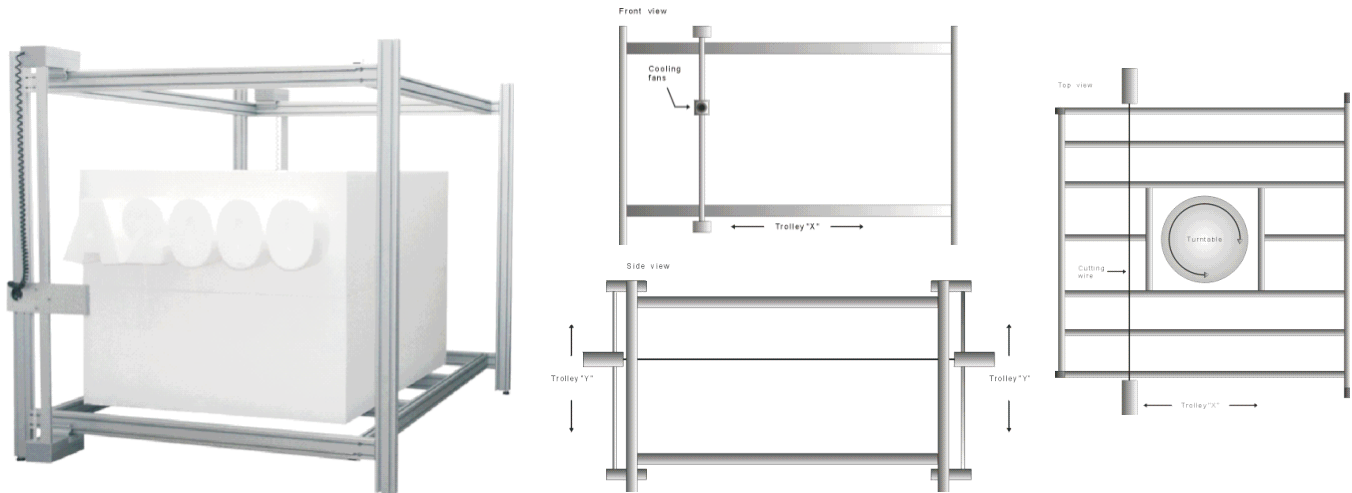
## The Professional MEGABLOCK T 2500 Series

The foam cutters of the MEGABLOCK T 2500 series are because of the wire length of 2500 mm mainly meant for cutting architectural details, such as moulds, finials, banisters. The large working area makes it possible to cut large-size spatial figures. The optional installation of a lathe and a turntable enables cutting rotary figures, such as columns or spheres. Also, thanks to the double-wire and multi-wire options these machines are perfect for serial production because of their great efficiency.

MEGABLOCK T 2500 Series						
	T 2500 Small	T 2500 Medium	T 2500 Large			
Max. Material Thickness	2440 mm (8')	2440 mm (8')	2440 mm (8')			
Max. Material Height	1220 mm (4')	1220 mm (4')	1220 mm (4')			
Max. Material Length	1290 mm (4')	2440 mm (8')	3050 mm (10')			
Cutting Wire Thickness	0,4 mm	0,4 mm	0,4 mm			
Max. Cutting Speed	3000 mm/min (118"/min)	3000 mm/min (118"/min)	3000 mm/min (118"/min)			
Resolution	0,01 mm	0,01 mm	0,01 mm			
Titanium wire	option	option	option			
Lathe	option	option	option			
TurnTable	option	option <tr <td>Double-Wire</td> <td>option</td> <td>option</td> <td>option</td>	Double-Wire	option	option	option

 <p>Material: Thickness: 244 cm (8') Height: 122 cm (4') Length: 129 cm (4')</p>	 <p>Material: Thickness: 244 cm (8') Height: 122 cm (4') Length: 244 cm (8')</p>	 <p>Material: Thickness: 244 cm (8') Height: 122 cm (4') Length: 305 cm (10')</p>
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## The Professional MEGABLOCK Multi Wire MW 1300 Series

The foam cutters of the MEGABLOCK MW 1300 series are — because of the wire length of 1300 mm — meant for cutting architectural details, such as moulds, finials, banisters. The large working area makes it possible to cut large-size spatial figures. The option of installing a lathe, a turn table and a shape wire tool makes it also possible to use these foam cutters for cutting rotary figures, such as columns or spheres. Thanks to the fact that these machines are equipped with the Multi Wire feature, it is possible to multiply the efficiency when compared to the T series models.

MEGABLOCK MW 1300 Series			
	MW 1300 Small	MW 1300 Medium	MW 1300 Large
Max. Material Thickness	1300 mm (4')	1300 mm (4')	1300 mm (4')
Max. Material Height	1220 mm (4')	1220 mm (4')	1220 mm (4')
Max. Material Length	1290 mm (4')	2440 mm (8')	3050 mm (10')
Cutting Wire Thickness	0,3 mm	0,3 mm	0,3 mm
Max. Cutting Speed	1000 mm/min (39"/min)	1000 mm/min (39"/min)	1000 mm/min (39"/min)
Resolution	0,01 mm	0,01 mm	0,01 mm
Titanium wire	standard	standard	standard
MultiWire (up to 10 wires)	standard	standard	standard
Lathe	option	option	option
TurnTable	option	option	option
Shape Wire Tool	option	option	option

Imagine the time and cost you can save with the Multi-Wire Feature  
Up to 10 identical projects cut simultaneously.



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MEGABLOCK MW 2500 Series			
	MW 2500 Small	MW 2500 Medium	MW 2500 Large
Max. Material Thickness	2500 mm (8')	2500 mm (8')	2500 mm (8')
Max. Material Height	1220 mm (4')	1220 mm (4')	1220 mm (4')
Max. Material Length	1290 mm	2440 mm (8')	3050 mm
Cutting Wire Thickness	0,45 mm	0,45 mm	0,45 mm
Max. Cutting Speed	1000 mm/min (39"/min)	1000 mm/min (39"/min)	1000 mm/min (39"/min)
Resolution	0,01 mm	0,01 mm	0,01 mm
Titanium wire	standard	standard	standard
MultiWire (up to 10 wires)	standard	standard	standard
Lathe	option	option	option
TurnTable	option	option	option
Shape Wire Tool	option	option	option

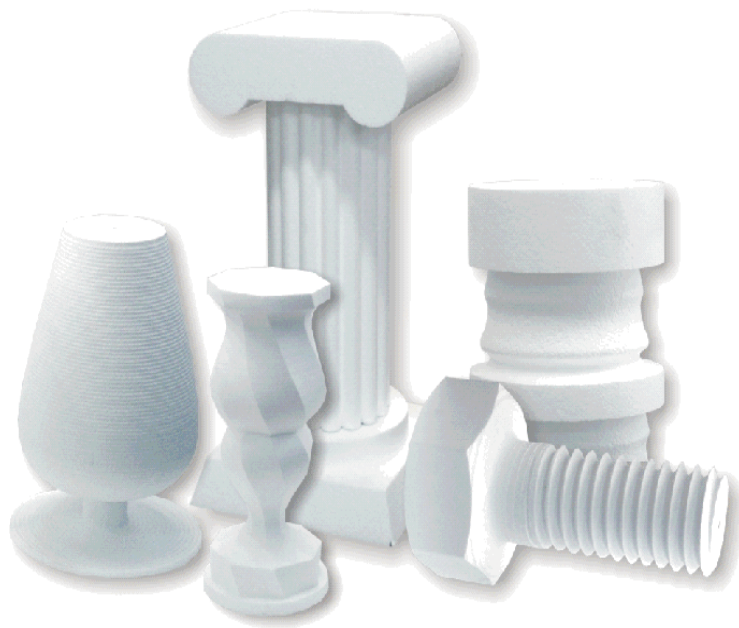
1 wire — 1 element up to 122 cm high  
 2 wires — 2 elements up to 61 cm high each  
 3 wires — 3 elements up to 40 cm high each  
 4 wires — 4 elements up to 30 cm high each  
 5 wires — 5 elements up to 24 cm high each

6 wires — 6 elements up to 20 cm high each  
 7 wires — 7 elements up to 17 cm high each  
 8 wires — 8 elements up to 15 cm high each  
 9 wires — 9 elements up to 13 cm high each  
 10 wires — 10 elements up to 12 cm high each

Imagine the time and cost you can save with the Multi-Wire Feature

Up to 10 identical projects cut simultaneously.





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Should you have any other questions not covered in this catalogue, please do not hesitate to e-mail us.



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