

Mach1, Inc. is proud to introduce a new horizontal contour cutting machine for flexible polyurethane foams.



The concept is modeled after a proven German model with a continuous blade. This design has been used in the industry for over 15 years. Most foam fabricators are familiar with the performance of this design. Although the technical specifications with regards to capability of cutting speeds are similar, our machine has numerous advantages such as:

- The machine is built with parts and components readily available in the U.S. from local distributors.
- The CNC controller is off-the-shelf, U.S. made, and has been used for years in a variety of industries for milling machines, plasma cutters, automatic routers, packaging and robotics.
- The control computer is a standard pc running on the Microsoft Windows® platform easily serviceable locally.
- The software is divided into two sections. The first part is the job preparation that allows you to import almost any type of file, arrange the parts to be cut with great flexibility, designate the cutting order of parts, cutting lines between parts, automatic or manual control for the blade re-twisting location, and generating a G code (US standard file not SLD European standard).
- The second part of the software controls the actual running of the machine with the loading of parts and the automatic or manual movement of the machine. Both of these software packages are off-the-shelf (slightly modified to handle the blade re-twist operation) and well tested and proven in the industry.
- The software is not proprietary. It is an open architecture system based on the US file standard dxf and G codes. It can be interfaced with various nesting programs and can be upgraded at a later time inexpensively as new technologies become more available.
- AC motors, servo motors, amplifiers and electrical components are readily available in the U.S. 90% of the components are available through Grainger.
- The machine has available the latest grinding technology, i.e., CBN grinding wheels.
The steel bandknife wheels has a special adjustment capability. After

Specifications



Standard Cutting Capacity

- 90 inch width
- 51 inch height
- 98 inch length (optional 120 inch)
- other custom sizes available

Maximum Cutting Speed

- 39 ft./min.

Available Options

- Separate computer for job preparation specifications (this would increase efficiency having the CNC computer dedicated to cutting operations, speeding up the overall cutting process.
- Manual turntable
- Grinding Apparatus with optional CBN type wheels
- Center blade guide support (not available with turntable feature)
- Nesting programs

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Videos

Video 1 "Full View 1 "



Video 2 "Blade Operation 1"

necessity for an expensive large scale digitizing board. With an inexpensive, standard digital camera, this module will convert a picture taken of a shape on a paper or even a cardboard pattern into an electronic contour file. The shapes or contours photographed don't have to be 1:1 scale. They can be enlarged or shrunk to match the real part. The job preparation software resides on the machine computer or can be placed on a different computer at a different location (e.g., office, etc.).

Many foam fabricators realize more and more that the expense with German machines is not only in the initial purchase but also in the maintaining and servicing of the machines as they get older. We realize that the spare parts aspect after the sale of the equipment is very lucrative for the German companies. We use as many off-the-shelf parts as possible available to our customers locally. This is more in tune with today's business environment in which efficiency and keeping costs down is a high priority to our customers. We are convinced that by taking this approach, a small company will benefit, not particularly in short term dollars, but in long term reliability and economics.

About Mach1, Inc.

Our experience with foam cutting equipment, particularly CNC equipment, goes back many years. In 1980 when this technology was new, to be able to build this type of equipment required complicated engineering and tremendous resources. Today, these technologies are available off-the-shelf. A great deal of resources, engineering and support are available from the original developing companies. The task is simply to take proven components and make them work together.

Mach 1, Inc. is proud to offer a product with all the performance and integrity of the European brands but at a fraction of the cost. The added benefit of serviceability and familiar controls will provide the buyer with a reliable machine that will perform its intended function for years to come.

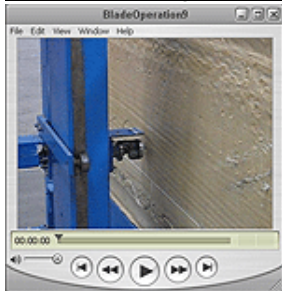
Satisfaction Guaranteed

We guarantee that our machine will satisfy the varied needs of our customers to help promote success in today's challenging business environment.

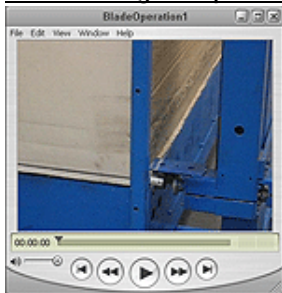
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Video 3 "Blade Operation 2"



Video 4 "Program Upload 1"



Video 5 "Program Upload 2"



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