

Handrail and Fencing Automated Cutting Solution

The Mastertube™ Profiler from Vernon Tool™ is an automated plasma cutting solution for handrail, fencing and gate manufacturers. This machine combines accurate cutting and profiling on tube and pipe sizes 1 in. x 12 in. O.D. and rectangular up to 7.5 in. cross section. Improving efficiency and quality is easy with the Mastertube™ Profiler as cut pieces require little to no grinding and filing.

The Mastertube™ Profiler is driven by a powerful and easy-to-use Microsoft® Windows®-based software system. Operators can be trained and running the machine in just a few hours and complex cuts can be programmed and processed in minutes.

FEATURES

- Simple program/operator software
- Off-line programming
- CAD-CAM capabilities
- High-speed precision cutting
- Ve-Assist™ internet diagnostics

IDEAL FOR CUTTING:

- Handrails
- Gates
- Fencing
- Ornamental
- Railing

TYPES OF CUTS:

- Miters
- Saddles
- Round holes
- Rectangular holes
- Complex custom profiles



Mastertube™ Profiler shown. Modular Extraction Hood, Legs and Leg Mounting Kits sold separately.





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Standard Specifications	
Diameter Range	1 in. - 12 in. (25 mm - 305 mm) O.D.
Rectangular Range	4 in. x 6 in. & 5 in. x 5 in. (to max. 71/2 in. cross section)
Min—Max Tube Length	1 ft. – 44 ft. (0.3 m - 13.4 m)
Max Weight Per Foot	60 lbs (27.2 kg)
Max Total Weight	600 lbs (272 kg)
Intersection Angle	+/- 89°
Max Cutting Speed	100 ipm (2.5 mpm)
Max Torch Bevel Angle	+/- 55°
Tube Rotation Drive	Precision planetary gear head and gear belt
Tube Advance/Retract Drive	Precision rack and pinion
Input Power	Machine: 120 VAC, 1-phase, 60 Hz Plasma Unit: 208/240/480 VAC, 3-phase, 60 Hz
Temperature	40 - 100° F (1 - 38° C)

SOFTWARE	
Operating System	Windows® XP Pro or compatible release. WinMPM .txt based programming software.
Preprogrammed Shapes	Round: Miters, saddles, centerline offsets, multiple intersections, elbow supports, gusset slots; round, rectangular, saw cut, overlapping pipe holes, re-pads with axial offsets and baseline or work point offsets. Rectangular: Straight cuts, compound miters, holes.
Graphics	Menu-driven prompts with color icons, 2D and 3D dimensional graphics, interactive software and hardware error messages.
CAD/CAM	Compatible with popular 3D modeling and isometric software. Vernon VCAD custom profiling and translation software.
Internet Service	VE-Assist™ web-link direct to VERNON Tool™ factory for remote computer diagnostics.

COMPUTER MOTION CONTROL	
Display	Color VGA touch screen
Keyboard	116-key alphanumeric
Processor	Industrial PC with RAM and ROM
Motion Control	UMAC 2-axis/4-axis
Motors	Tachless DC servo drives with optical isolation
Machine Accuracy	.030 in.
Machine Repeatability	.010 in.
Data I/O Options	Ethernet, LAN, USB Port

CUSTOMER ASSISTANCE POLICY

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WORLD-CLASS AUTOMATED CUTTING EXPERTISE

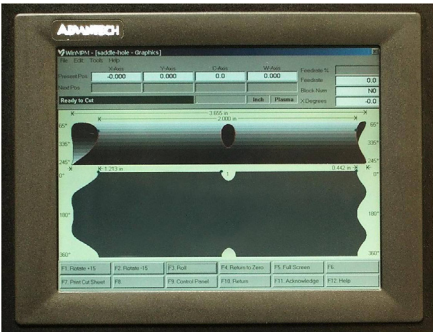
With nearly 1,000 installations worldwide, Vernon Tool Company is the industry's preferred source and global supplier of 3D profiling, customized pipe cutting, and metal fabrication machinery. You'll find our products in the process piping, offshore, structural, pressure vessel, and shipbuilding industries.

EXCEPTIONAL CUSTOMER SERVICE

Vernon Tool's Ve-Assist™ allows direct communication between the user and the supplier to troubleshoot and train in real time with Vernon cutting machines in the field over a secure broadband connection:

- Service experts log on the machine to observe, exchange data files, update operating systems, and diagram procedures or problems.
- The dedicated web link also serves as a valuable tool for demonstration and training purposes on desktop PCs.

A virtual service technician is side-by-side the machine operator to maximize machine productivity and operator efficiency. Post-warranty contracts also include this innovative service to ensure customers' ongoing satisfaction and success.



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