



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

SOFTWARE	
<b>Operating System</b>	Windows® XP Pro or compatible release. WinMPM .txt based programming software.
<b>Preprogrammed Shapes</b>	Round: Mitters, 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.
<b>Graphics</b>	Menu-driven prompts with color icons, 2D and 3D dimensional graphics, interactive software and hardware error messages.
<b>CAD/CAM</b>	Compatible with popular 3D modeling and isometric software. Vernon VCAD custom profiling and translation software.
<b>Internet Service</b>	VE-Assist™ web-link direct to VERNON Tool™ factory for remote computer diagnostics.

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