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.
### Standard Specifications

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

### SOFTWARE

- **Operating System**: Windows® XP Pro or compatible release. WinMPM .txt based programming software.
- **Preprogrammed Shapes**: Round: Milters, saddles, centerline offsets, multiple intersections, elbow supports, guisset slots; round, rectangular, saw cut, overlapping pipe holes, re-pads with axial offsets and baseline or work point offsets. Rectangular: Straight cuts, compound milters, 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 modelling 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

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**CUSTOMER ASSISTANCE POLICY**

The business of The Lincoln Electric Company® is manufacturing and selling high-quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customer and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee any liability with respect to the information or advice provided, or the provision of such information or advice does not create, extend, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

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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 to 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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