

MASTERTUBE PROFILING MACHINE SPECIFICATIONS

Machine:

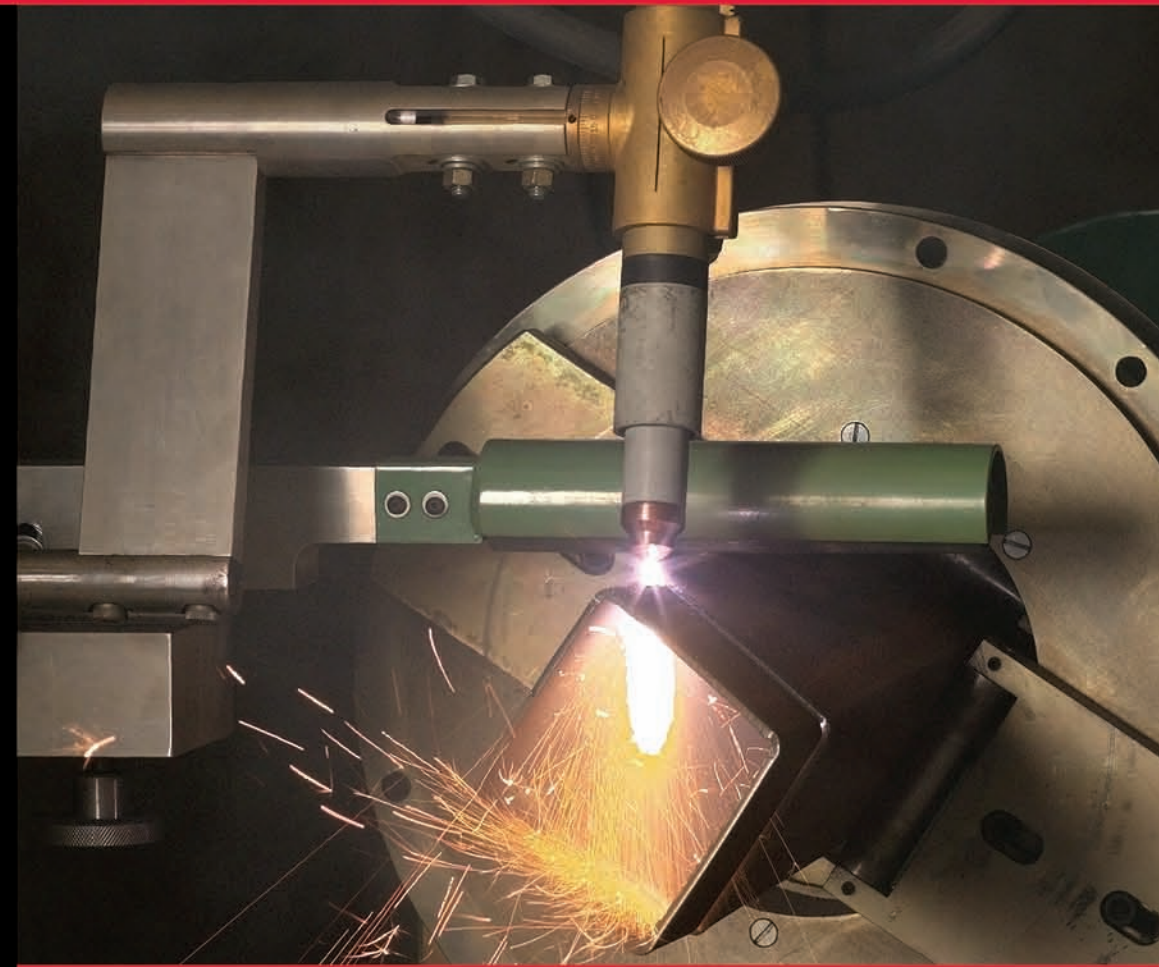
Diameter Range:	1"-6"
Rectangular Range:	4"x6" & 5"x5" (to max. 7-1/2" cross section)
Min-max tube length:	15'-24' expandable to 44'
Max. weight per foot:	30 lbs.
Max. total weight:	600 lbs.
Intersection angle:	+/- 89°
Max. cutting speed:	200 ipm
Max. torch bevel angle:	+/- 55°
Tube rotation drive:	Precision planetary gearhead and gear belt
Tube advance/retract drive:	Precision rack & pinion
Voltage: Machine	120 VAC 60 Hz
Plasma:	208/240/480 VAC, 60 Hz
Temperature:	40-100° F (1-38°C)

Software:

Operating system:	MS Windows text format cut programs
Preprogrammed shapes:	
Round:	Miters, saddles, centerline offsets, multiple intersections, elbow supports, gusset slots; round, rectangular, saw cut, overlapping pipe holes and 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 & 3D dimensioned graphics, interactive software and hardware error messages
CAD-CAM:	Compatible with popular 3D modeling & isometric software. Reads G-code programs.
Internet service:	Ve-Assist web-link direct to Vernon factory for remote computer diagnostics

Computer Motion Control:

Display:	Color VGA touch screen
Keyboard:	116-key alphanumeric
Processor:	Industrial PC with RAM & ROM
Motion control:	UMAC 4-axis
Motors:	Tachless DC servo drives with optical isolation
Machine accuracy:	.030"
Machine repeatability:	.010"
Data I/O options:	Ethernet, LAN, USB port



VERNON

MASTERTUBE PLASMA PROFILER



VERNON TOOL Company

503 Jones Road, Oceanside, CA 92058
Phone: 760.433.5860 • Fax: 760.757.2233
Web: www.vernontool.com • E.mail: www.sales@vernontool.com

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Catalog: MTC-09.02

YOUR PARTNER IN SUCCESS THROUGH INNOVATION

MASTERTUBE PLASMA PROFILER

Plasma cut round and rectangular tubing.

Vernon innovation spawns economic solutions.

A pioneer in computerized cutting, plasma technology, and specialized operating systems, Vernon relies on innovation to sustain market leadership. Adapting new technologies leads to improved production with Vernon's "load & go" approach to tube fabrication.

With simple, rugged construction, the MasterTube machine employs a 4-axis computer control with tachless drives. PLC solid-state relays and LED readouts simplify maintenance.

A single 4-axis motion control card drives two axes of motion to advance, retract, and rotate raw tubing. Two more axes simultaneously vary torch angle and horizontal travel across flat surfaces. Computer controls and out-of-round compensation perform even the most difficult corner cuts.

Plasma power supplies offer immediate ignition, laser-like cutting speeds, and excellent cut quality on carbon, stainless, and non-ferrous materials.

Programming parts and running the machine are simple. Windows-based software employs menus and simple graphical icons to make cuts like saddles, miters, multiple intersections, centerline offsets, and holes. Dimensioned 2D and 3D illustrations, interactive error messages, and an on-line instruction manual simplify machine operation and maintenance.

Network compatibility allows management to delegate part-programming responsibilities to the shop floor or to remote engineering groups. Simple text format files are compatible with common CAD modeling programs.

A secure broadband connection between the plasma profiler and Vernon's service department solves operating and maintenance questions in real time. A Vernon technician is virtually side-by-side your operator or maintenance engineer at the machine.

Together we prosper through shared success.

The MASTERTUBE machine is ideally suited to miscellaneous steel construction like space frames, pedestrian handrails, machinery and vehicle safety guards, recreational structures, and automotive aftermarket components. Many new applications await this versatile, economic cutting machine at a fraction of laser machine prices.

Field proven mechanical design and simple touch-screen operation ensure a refreshing approach to repetitious, time-consuming operations. Consolidate several operations into a single set-up to improve typical cycle times.

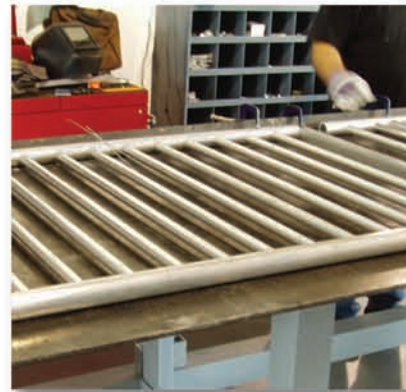
The MasterTube machine is performance-engineered to produce maximum profits with minimum investment. 4-month investment

payback periods are not uncommon. Every detail is engineered to improve production, decrease costs, and promote customer satisfaction.

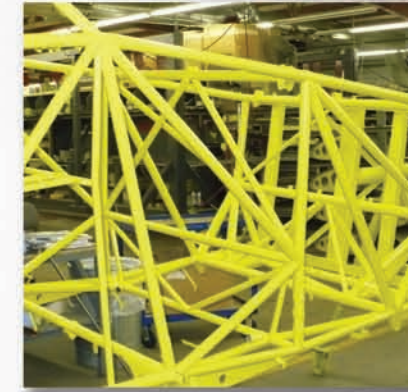
Vernon sells solutions to the most difficult fabrication challenges. We listen and you profit. Together we succeed through applied technology.



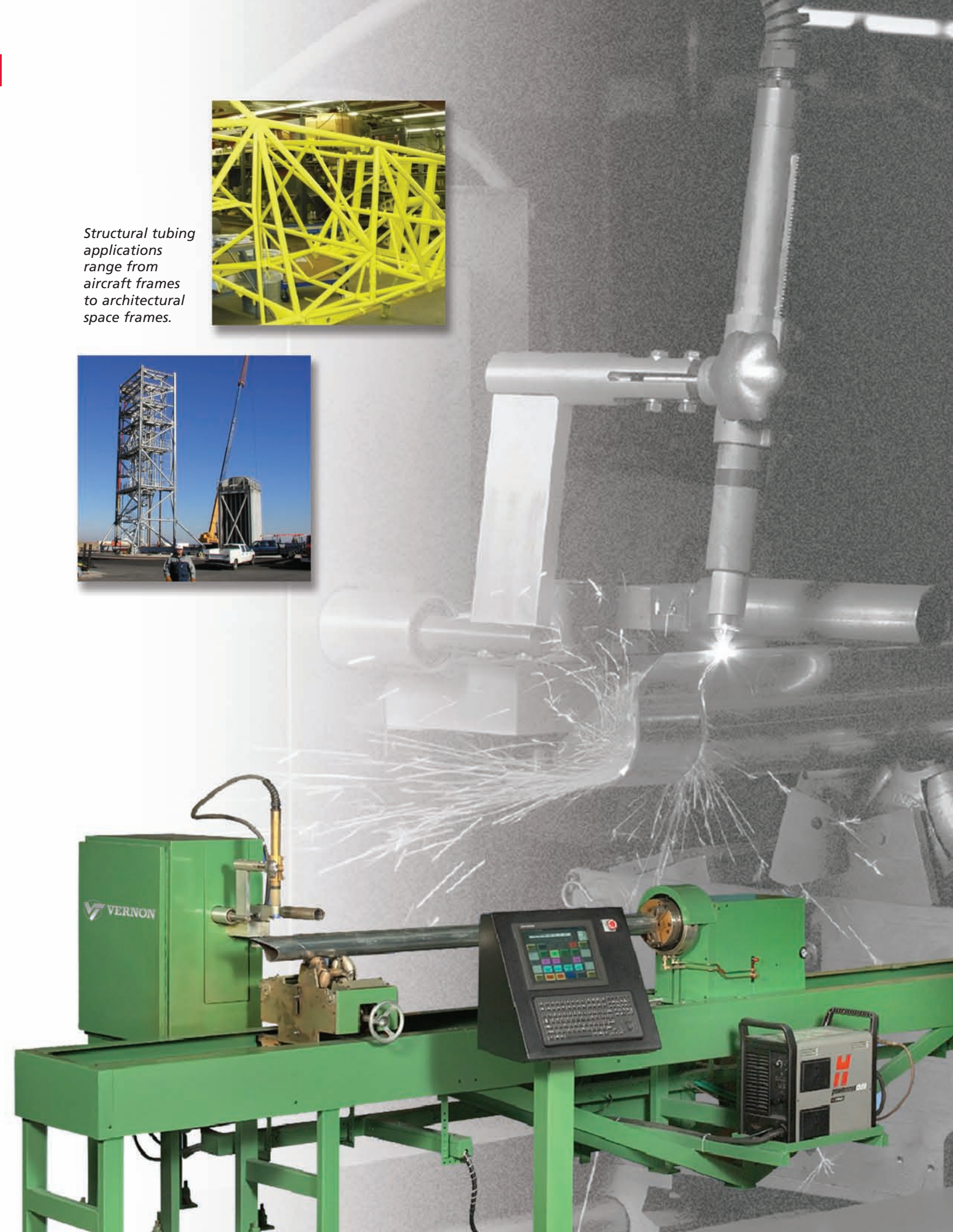
Touch-screen programming and cutting are controlled from the operator's console.



Windows-based software produces tubing connections for space frames to handrails.



Structural tubing applications range from aircraft frames to architectural space frames.



Your partner in success through innovation.