NEW! Vernon Tool MASTERPIPE® Mini Profiler

Entry-level pipe cutting machine with powerful dual-axis CNC controls

For many shops, cramped for space and on a tight budget, improving quality and boosting production can make all the difference. The MASTERPIPE® Mini Profiler can cut pipe or tubing to length quickly and efficiently.

Flexible configuration

The standard MASTERPIPE uses a variable-angle, manual height-control for the plasma torch. For achieving cleaner cuts on larger diameter material that may be slightly out-of-round, the Arc Voltage Height Control (AVHC) option keeps the same arc length, and same quality, throughout the cut. An oxyfuel attachment is an available option for material with heavy wall thickness.

Material range

Large or small diameter material? Long or short material? The automated profiler's variable-jaw chuck handles outside diameters from one to eight inches. The smallest sized profiler has a footprint of only two feet wide and seven feet long. It rapidly finishes four foot material and by adding five-foot long extension modules, the MASTERPIPE Mini Profiler can grow to hold material of up to 24 feet in length.

To determine cutting speed, amperage, and torch height, identify the material type and wall thickness.

Easy loading

One button can move the torch mount so that material can be loaded and positioned for cutting. Large or small diameter pipe is supported by a set of easily adjustable ball transfer cradles that can be repositioned away from the cutting action.

Adjustable gas-shock chuck supports make it easy to accurately set and lock the chuck height to ensure smooth and level rolling of different diameter material on the cradles.

The plasma torch work-lead cable attaches directly to a permanent chuck-connector to provide a "no-step, no-worry," positive arc current flow.

You can quickly position the torch in the manual mounting with throw-lever and cam-lock clamps, including an easy manual adjustment for torch bevel to decrease hand-grinding weld-prep finish work.

These features all reduce the time-between-cutting-operations and lead to real efficiency improvements.

MASTERPIPE® Mini Profiler shown with one optional 5-ft. extension module.

Cutting Systems

Powerful Torchmate® PRO SERIES® CNC Controller and Torchmate Driver software

The key to automation efficiency is CNC: the processing of computer generated G-code to produce the precise motion that results in fast, accurate cutting. The combination of a Windows® computer, running Torchmate Driver software, along with the Torchmate PRO SERIES CNC Controller, has been used effectively on many hundreds of CNC cutting system X-Y tables. It is also the best combination for the MASTERPIPE® Mini Profiler.
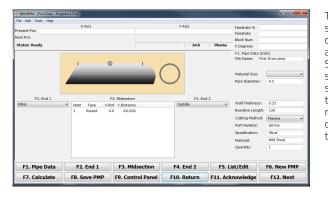
The configurable, fully editable driver software directly takes G-code produced from the design software and sends it to the controller, which then activates the MASTERPIPE Mini Profiler's precise, accurate, and dependable stepper motors. Smooth, reliable motion of the torch carriage is delivered by direct gear-drive and the self-cleaning V-rail / V-roller system.
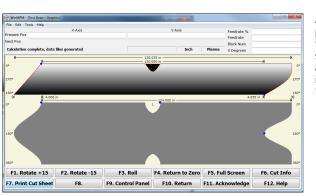
Power and torque to drive the chuck is delivered through a durable, inelastic timing-belt-and-gear arrangement.
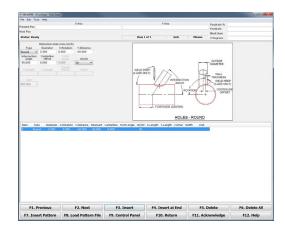
Design complex profiles with ease

With the optional Vernon Tool WinMPM software, creating G-code profiles for miter cuts, saddle cuts, centerline offsets, gusset slots, round or rectangular holes, and multiple-tube-vertex joinings of the same or different diameter are all automatic when you supply the parameters.

Once the end cuts and middle section holes are specified, export the G-code. The code can be used as many times as you need it. To make a modification, just reload the profile, change any of the parameters, and re-save. There are no complicated CAD drawing steps to learn, so cutting profiles that actually fit can happen in minutes.

The optional WinMPM design software provides for custom cutting of both ends as well as the midsection of the pipe. Select from miter, saddle, straight, crown, elbow support, or pipe-to-cone for the ends. Select from round, rectangle, saw cut, bumper, or re-pad for multiple cuts in the midsection.

After calculating the cut paths and checking for errors, the optional WinMPM design software provides a rolling animated view of the pipe as it will be cut as well as an "unrolled" cutting pattern.

Cut holes for intersecting pipe with precision and accuracy using the optional WinMPM design software; enter the parameters by referring to the provided diagrams.

Lincoln Electric Cutting Systems
1170 Trademark Drive, #101 ▪ Reno, NV ▪ 89521
Phone: +1.866.571.1066 ▪ www.lincolnelectric.com

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