

LOCKFORMER

The Vulcan 1000D

THE BEST PLASMA CUTTING SYSTEM FOR HVAC CONTRACTORS JUST GOT BETTER



The Vulcan 1000D

The Vulcan 1000 set the standard for compact, cost-effective plasma cutting systems. With the introduction of the enhanced Vulcan 1000D, the best just got better — and even more productive. Put the Vulcan 1000D on your shop floor, and you'll have more than a state-of-the-art plasma cutting system. You'll also have a competitive advantage.

Strength & Stability

With its fixture welded 3" x 3" steel tubing framework, the Vulcan 1000D could only be made by Lockformer. The superior structural integrity of the frame — which we believe to be 50% stronger than any other system at this price point — enables the Vulcan 1000D to achieve unrivaled levels of strength, stability and accuracy. Of course, we could have used thin sheet metal and bolted angle iron like many of our competitors, but we refused to compromise quality to reduce costs. While some may argue that such heavy-duty construction is excessive, we believe it's essential. Without it, the highest levels of job quality and repeatability cannot be achieved.

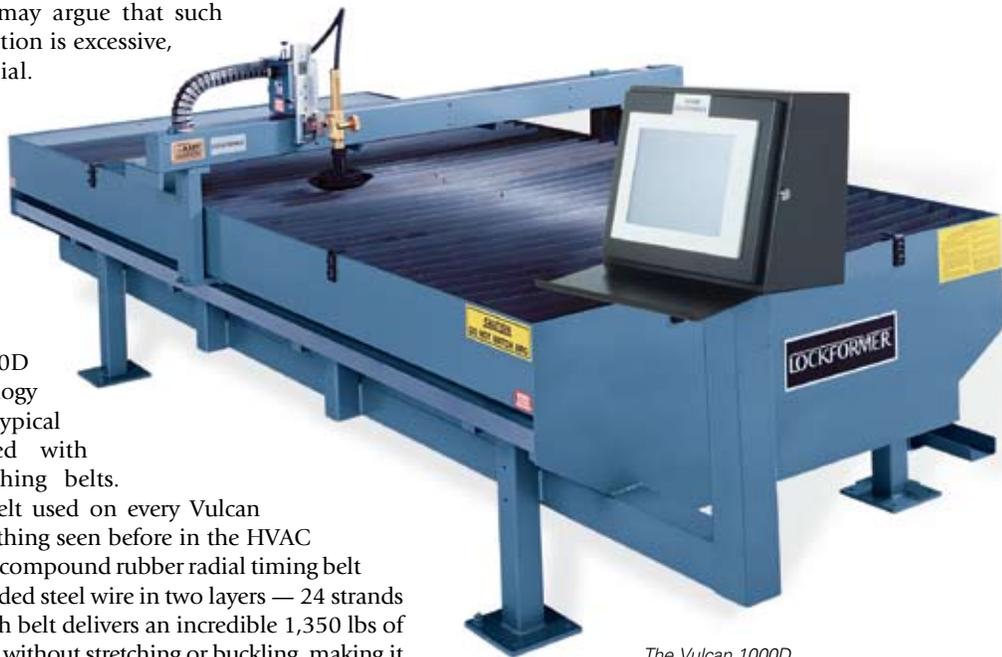
New Technology & Innovative Design

The Vulcan 1000D leverages new technology to overcome the typical problems associated with twisting and stretching belts. Quite simply, the belt used on every Vulcan 1000D is unlike anything seen before in the HVAC industry. Inside each compound rubber radial timing belt are 12 strands of braided steel wire in two layers — 24 strands in all. As a result, each belt delivers an incredible 1,350 lbs of pull strength per inch without stretching or buckling, making it a match for the very best rack-and-pinion systems.

Power & Precision

At the heart of the Vulcan 1000D you'll find a sealed brushless servo motor of the highest quality. No inferior stepper motors here. The y-axis DC servo motor is linked to a 3/4" diameter steel shaft that drives both sides of the machine simultaneously. Combined with a 3" diameter x 128" long y-axis guidance rail and a Hiwin linear x-axis bearing and way, the Vulcan 1000D achieves unsurpassed levels of stability, accuracy and smoothness of operation. This is important when one 1/8" can mean the difference between first-rate quality and a lost customer.

The Vulcan 1000D leverages a Hypertherm plasma torch and Power-MAX 1000 power unit. As such, the Vulcan 1000D can achieve traverse speeds of 3,500 inches per minute (I.P.M.) and will cut 24-gauge G90 at 400 IPM — all to the tightest tolerances with no additional edge preparation. The Vulcan 1000D can also be coil fed with either a two or four coil system for the highest levels of productivity.



*The Vulcan 1000D
Plasma Cutting System*

Enhanced Software & Increased Functionality

The standard software that drives the Vulcan 1000D is a significant upgrade over previous versions. New features include a newly designed operator interface, upgraded cutting software for fittings, and Microsoft's Windows® XP operating system. Now operators can input fittings at the machine on the new 15" color LCD flat panel touch screen or from connected computers in nearby offices — while the machine is cutting. It all adds up to easier operation for your staff and increased productivity for your business.

Lockformer Vulcan plasma cutting systems are renowned for their unrivaled structural integrity and smoothness of operation. Better quality underneath is reflected in a better quality cut on the surface of the material. It's that simple, but surprisingly difficult for other vendors to achieve. That's why the industry's leading companies put their trust in Lockformer and why over 2,800 Vulcan plasma cutting systems have been installed nationwide.



Revolutionary LCD Touch Screen Control

The Vulcan 1000D features a 15" LCD touch screen as standard. Now operators can input fittings at the machine by simply pulling up menus and touching the screen. Alternatively, fittings can be sent to the machine from connected computers located in nearby offices.

- Industrial-grade color-touch screen
- Manual speed increase/decrease override
- Kerf compensation from .001 to .999
- Graphic machine status display
- Scale up/down
- Part rotation
- Shape repeat
- Auto home sense to set 0/0 automatically
- 2nd home set for piece work
- Acceleration control
- Automatic corner slowdown
- 60X Industrial hard drive
- Encoder feedback for positioning
- 80 volt DC power supply 20 AMP
- Remote safety stop switches and current limiting drives for safety
- Worldwide Support

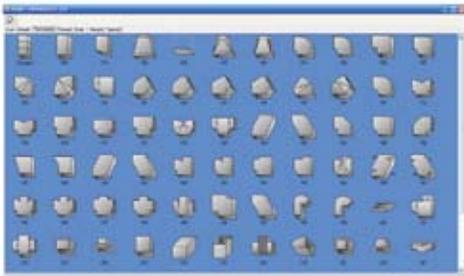
Feature Summary

- User-friendly operator controls and easy-to-use software
- Excellent cut-quality and precision on a wide variety of materials
- Patented Hypertherm-shielded nozzle for longer nozzle life and heavier piercing capability
- Vertical dual-cylinder pneumatic torch lifter with adjustable up/down pressure
- Sealed DC servo brushless motor and motor encoders for steady movement of the torch over the entire cutting area
- Exclusive Gullwing scrubbing-action airfoil table eliminates dust particles on the underside of the sheet metal for clean, square, dross-free cuts
- Predesigned shapes, plus more than 900 icon choices, provided as standard
- Preview fittings in 3-D and store frequently used fittings in a user-defined library
- Fixture welded 3" x 3" steel tubing framework for unrivaled strength and stability
- Linear x-axis bearing and way
- 3" diameter x 128" long, turned, ground & polished y-axis guidance rail
- 8" x 8" steel table leg pads with leveling feature
- Dual-jacking screw-adjustable sheet supports
- Premium components and unrivaled build quality for unmatched reliability and longevity
- Optional built-in bar code scanner enables fast scanning and inputting of job data at the machine

Increase your shop's productivity and profits with software that has been the industry standard for 25 years.

Vulcan software makes you work more productive whether you have five or fifty people in your shop. Fitting input is quick, simple, and non-repetitive. Create customized, color-coded labels and reports easily.

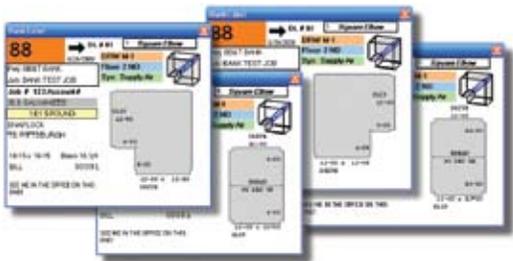
Comprehensive Fitting Libraries: Choose from our comprehensive library of fittings from residential to the largest industrial applications.



Automatic Shape Nesting: Reduce scrap levels significantly with automatic shape nesting. Go from blanking out each fitting to blanking out an entire job.



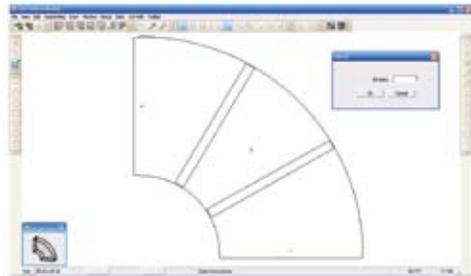
Customizable Color Labels: Generate colored-coded labels with isometric and flat views on the same label. Easily customize labels by adding company logos and other information. Adding job site information will reduce installation labor.



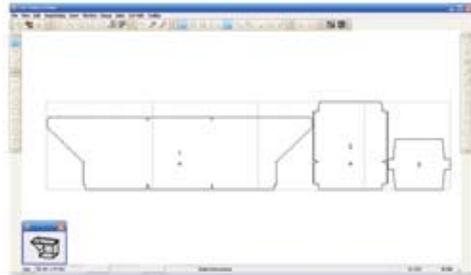
Accessories: Use the Accessories feature to make labels and reports for purchased consumable items, such as grilles, registers, and flex duct. Send the reports on to suppliers for a quote. For non-consumables, keep track of shop tools, scaffolding, and gang boxes. This is a powerful feature to eliminate tool losses.



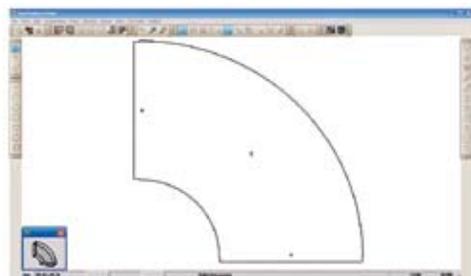
Automatic and Manual Segmenting: Use the advanced automatic and manual segmenting function to break up oversized fittings.



Dampers: Construct dampers for duct or increase takeoff fittings. Damper can be made with a different gauge than the duct. Vulcan allows you to cut the holes for the damper. Use with or without a hat channel.



Reinforcing: Add reinforcing automatically according to your shop's standards as you input each fitting. You can add/remove reinforcing right from the input screen. It's so easy, if a blank has a hole put a rod in it.



PDA and Tablet Compatibility: Vulcan isn't just for your office computer. Take PDA or Tablet into the field to input Vulcan fittings. The Tablet displays Vulcan in a portrait layout. For both PDA and Tablet, Vulcan can go anywhere and allow you to input fittings at any time. You can dock your PDA to transfer files manually or send them via e-mail to your office computer.



PERFECTION IN AUTOMATION



Torch Head

A newly designed torch head assembly provides optimum rigidity and strength for maximum reliability.



Controller

Controlling an advanced plasma cutting machine was never easier. Thanks to a newly designed touch-screen controller even novice users can use the Vulcan 1000D productively and safely from day one with minimal training.



Rolling Track

A specially designed industrial-grade cable track keeps torch leads in order and out of the way.



Emergency Controls

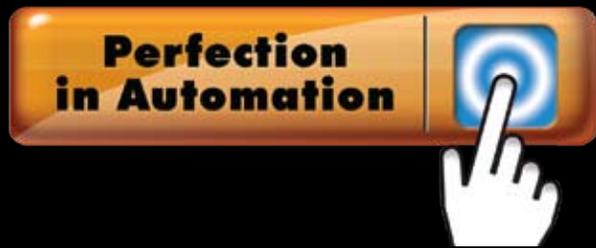
An enclosed motor and encoder assembly protects against dust and dirt to reduce maintenance intervals and maximize uptime.



Electrical & Exhaust Access

By running exhaust duct to the back wall of the machine, attaching your exhaust system via a TDC connection could not be easier.

You expect the World leader
to develop cutting edge
technology



Vulcan 1000D Controller Features

- Intel Celeron M, 1000Mhz, 512 L2 cache
- SO-DIMM DDR RAM, 1024 MB
- 30 GB Hard Disc 24/7
- 15" XGA Color TFT Display
- Logic Scanner ETHERNET
- Servo Drive 3 x 230V
- Synchronous Motor 2 Pole Pairs @ 6000 Nm



The Vulcan 1000D sets a new standard for compact plasma cutting systems. With unrivaled quality, reliability and performance, the Vulcan 1000D is an ideal choice for any contractor. For more information on how the Vulcan 1000D can improve your HVAC application, please contact your local dealer, or call Lockformer's sales department at (630) 964-8000.

THE VULCAN 1000D SPECIFICATIONS

Computer System
 High Speed CPU w/mouse
 17" super VGA color monitor flat panel
 60 GB hard drive
 Windows operating system
 Enhanced 101-style keyboard
 2 high-speed graphic printers
 200' Ethernet Cable

Cutting Table
 Maximum sheet thickness: 1/2"
 Maximum sheet size: 60" x 120"
 Maximum weight: 1,000 lbs.

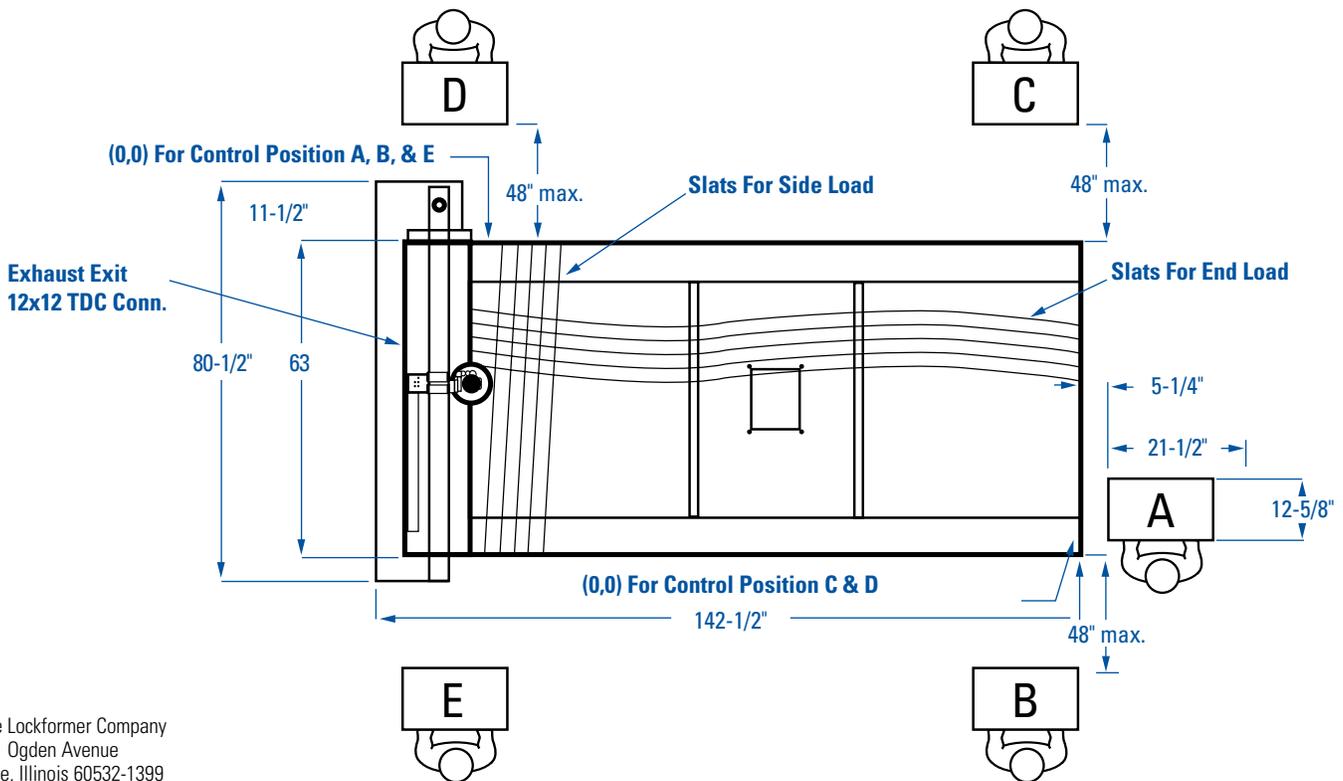
Cutting Speeds
 1 to 3,500 I.P.M. depending on sheet metal thickness
 Maximum positioning speed:
 4,000 I.P.M.
 1/2" pierce

Power Source
 Adjustable from 20 to 55 amps
 40 amp at 100% duty cycle
 208/440, 380/575, 60/50 Hz power units available

Control Panel
 DC servo power supply rated at 80 volts, 20 amp
 Optically isolated I/O
 100-volt sealed brushless motor encoder for reliable dust-free operation
 All cabling shielded to Lockformer specifications

Electrical Requirements
 Plasma transformer: 208, 240, 380, 415, 575, or 615 AC, 3-phase, 60 cycle incoming power
 CNC control: 220/1/60/50-60
 Office computer system: 110/1/60

Vulcan 1000D Dimensions
 Height: 58"
 Length: 164"
 Width: 81"
 Weight: 2,700 lbs.
 Available Table Sizes:
 5' x 10', 6' x 10'
 5' x 20', 6' x 20'
 Available Control Options:
 See drawing below



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Lockformer is Always Committed
 to improving our Environment for a Greener Future

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