

**ShopSABRE**

• ROUTERS • PLASMA CUTTERS •



**PLASMA  
CATALOG**

**Professional CNC Router & Plasma Cutting Tables**  
*for Wood, Plastic, Metal, and More!*

Our machines  
are more than just  
1 or 2 projects  
a week machines



*You the owner/operator should be able to go to the machine, turn it on, and go to work. No squaring or alignment should be required. Lower quality machines like Chinese Imports and Kit Machines might play the smoke and mirrors game but in the end, you will find yourself shopping again!*

**You can run them 24 hours a day 5 days a week  
or even more if your needs require.**

### **HEAVY WALL STRUCTURAL STEEL TUBE AND PLATE FRAMEWORK**

ShopSabre uses only top-rated North American steel tubes and steel plate. We do not use any extruded aluminum, folded steel, or sheet metal construction in our machine frames. Our systems are Heavy Wall Structural steel welded with no customer assembly required. Each machine is Jig welded, Precision Milled, and Heat Treated to assure you get the most accuracy. You the owner/operator should be able to go to the machine, turn it on, and go to work. No squaring or alignment should be required. Chinese Imports and Kit Machines might play the smoke and mirrors game but in the end, you will find yourself shopping again.



### **SHOPSABRE USES ONLY HIGH- PRECISION COMPONENTS**

We use industrial 25MM linear guide rails with triple wiper linear guide bearing blocks on X, Y, and Z Axis. We use 2 bearing blocks on each rail to assure the forces are equally distributed over the rail to reduce the amount of wear and noise. The triple sealed bearing blocks assure that regardless of the amount of cutting you perform, metal, dust and debris will not be able to build up on the rails or causing failure to the bearings. This design also makes the machine a self-cleaning system without the worry of wiping down the rails or watching for buildup while it cuts. All ShopSabre CNC Plasma machines are driven with top rated Servo Motors on X, Dual Y, and Z Axis. The X and Y Axis are also paired along with gears to increase performance and accuracy. The XY Axis also incorporates ShopSabre exclusive "Floating Drive" Technology for reduced maintenance, increased performance, and better life expectancy. The ShopSabre Z Axis Ball Screws are Ball Matched Angular Contact Bearings to assure the highest accuracy possible.



## PROFESSIONAL-GRADE CNC CONTROLLER

ShopSabre uses the best of both worlds when it comes to a CNC controller. We use an Industrial grade dedicated controller technology that has been conveniently installed into a Windows compatibility to give you the most control over your CNC system with the ease of running a computer. Our system does not connect to the machine with a cheap printer port or USB cable. We use a true CNC grade Industrial Connection via a 37 Pin direct connection.

The ShopSabre has a SSD Hard drive for **AT MACHINE STORAGE**. With Windows OS present at the machine you can load your CAD/CAM software on the machine computer if you would like, Eliminating the need to walk to a workstation to make changes to a file if necessary. ShopSabre also makes the machine completely networkable so you can utilize your businesses Internet Connection or Network for File Transfer, Project Storage, or our Industry famous On-line diagnosis/assistance.

A ShopSabre requires **NO** special training or machine setup. It has a dedicated built in microprocessor that **ONLY** drives your CNC machine, while the PC processor runs the PC and any programs you might have running. The ShopSabre CNC controller has USB drive ports to assure you can plug in your flash drives and external hard drives as necessary.

The ShopSabre Controller has **EVERY** capability that our competitors with standalone controllers have, and many more that competitors cannot offer (even on competing machines costing \$100,000.00+) including Material Library, Position Remembrance, Consumable Chart, and Pre-configured performance settings for various materials. The ShopSabre Controller is dust and dirt protected and designed to be used in a working environment. The Controller updates with Windows so you will never run into a problem with compatibility, and all controller software version updates are **FREE** for the lifetime of the equipment.

## SHOPSABRE HAS AN ANSWER FOR ANY BUDGET

We can build a CNC Plasma system that fits every need. From entry level without a cutter so you can use your own all the way to a Fully Functional High Definition system. We provide Upgrades to include CNC Routing Capabilities, 4th Axis Pipe cutting, Plate Marking, and more features. Unlike our competition our Technology is developed in house so our abilities to adapt to your needs are there.

ShopSabre also has exclusive CNC Router technology giving our Combo machines an advantage in the industry over any other solution. Don't be fooled by competitor's quotes, Many only provide you with the basics and expect you to adapt to it, we provide you with a solution to fit your needs!

## SHOPSABRE DOES NOT CUT CORNERS

If you purchase a ShopSabre system it is completed here in our factory from start to finish including testing and pre-configuration. This goes for any number of Options. ShopSabre also can attach a Drill to **ANY** of our CNC Plasma systems. With ShopSabre you are not limited to the size of hole you can produce with your CNC Plasma system, simply add the Drill feature and unlock the potential.

# SHOPSABRE BENEFITS LIST

- » ShopSabre puts additional time and money into assuring that each CNC system is 100% **TESTED** and Calibrated prior to leaving our facility so you won't be the tester in the field. The ShopSabre is designed to drop into your building and go to work. Don't pay expensive fees to have someone on-site to setup your machine; it can be done before it ever leaves the factory with ShopSabre CNC keeping installation simple, easy, and stress free.
- » ShopSabre puts more time and effort into assure each mounting bracket, Torch Mount, and Drive Component is machined to exact specs for increased accuracy and better fitments to assure you do not get any binding or excessive wear when you start using your machine.
- » ShopSabre CNC uses High Grade Continuous Flex Robotic CNC wiring that is specifically designed for the type of work a CNC system does. It can bend and move all day without having any issues, and the anti-interference coating assures the wires are less likely to have interference from other electronic equipment in your shop for the highest accuracy possible. Many competitors use cheap wires that can be purchased off the shelf for less money, but they still charge comparable pricing. Don't be fooled by companies who don't build quality into their systems.
- » On top of our Continuous Flex Robotic wiring is fully enclosed cable carriers rated and designed specifically for CNC Plasma use. Many competing machines use improper wire carriers designed for CNC Routing, these open wire carriers can lead to wire failures and problems. We protect your investment by protecting the communication lines from sparks and debris that is created when plasma cutting. Don't be fooled by companies who cut corners and leave their wires exposed putting **YOU** at risk of damaging wires and having to chase ghosts.
- » ShopSabre CNC is fully upgradable and has expansion capabilities for the growing shop. If you want to start with the basics and move to the bells and whistles down the road, almost every option (with a few exceptions) can be added after the sale in the field.
- » ShopSabre CNC designs our systems to be easy to work on so you do not need a ShopSabre technician to come into your facility to help with everything you encounter. You benefit from low operational cost and a big return on investment.
- » If you do find yourself in need of help, ShopSabre CNC offers **FREE** lifetime tech support and assistance as a part of ShopSabre "SabreNation" – because we are confident that our machines will last a lifetime. We also include remote diagnosis, Online Training, and access to our Exclusive SabreNation University Videos and can have a tech go On-site if you request. We know our machines are the best but we want you to have the same confidence each and every time you turn the machine on.
- » ShopSabre sales are not paid on commission the only reason for them to recommend an option is truly to benefit your project and machine capabilities. ShopSabre sale consultants are trained on the technology and industry and not only understand our product but understand our industry better than our competitors. ShopSabre has no reason to encourage you to spend more money than you need to up front to perform your job but also, our team won't cut corners to make a quick sale. We sell on facts and the facts should sell the technology, equipment, and options. Let us perform a Comparative Analysis for you!
- » Don't be fooled by the other systems on the market. We are so confident of our machines that we extend an invitation to schedule a tour of our facility and view our ShopSabre CNC systems in various stages of manufacturing. With prices starting under \$20,000 you can't afford not to check us out!

# SHOPMASTER



## AVAILABLE PLASMA UNIT

- Hypertherm
- Thermal Dynamics
- HiDefinition available for this model



## PRODUCT DESCRIPTION

The ShopSabre ShopMaster PRO Series Plasma Series takes Industrial Plasma to another level. If you require high production needs or High Definition cutting capacity the ShopSabre ShopMaster PRO Series delivers performance at a price you simply can't find elsewhere.

The ShopMaster PRO Series is available in a 4x8, 5x10, or 6x12 working area with a Standard 24" Deep Water Table with built in Air Bladder Technology for adjustment of water level +/- 6". (Available also in Automated Zone Down-Draft by Request). The ShopSabre CNC Plasma machines are proudly engineered, designed, built, and supported in the U.S.A. Each machine ships completely assembled and pre-tested ready to cut day 1! The ShopSabre ShopMaster PRO Series comes standard with AC Digital Mitsubishi Servo Motors with matching amplifiers and Glass Encoder Technology on the X, Dual Y, and Z Axis. The X and Y Axis come with direct drive planetary gears removing unnecessary belt adjustments or belt wear. The ShopMaster PRO Series is built for Speed and Performance. Whether your needs are high speed for thin gauge material or high heat tolerance for thicker HD and Oxy Fuel Cutting this machine can handle all your demands.

## STANDARD FEATURES:

- » Fully adjustable water tank (optional Zoned Automated Down-Draft Available)
- » Fully welded structural steel tube construction
- » Large structural steel tube gantry construction
- » Advanced Digital Torch Height Control with Ohmic Touch.
- » Torch Distance Control Technology with Touch Indicator

- » Magnetic Breakaway Torch Mount with Integrated Torch Level
- » Advanced AC Digital Servo Motors with Planetary Gear Drives and Glass Encoder Technology.
- » Shielded Wire Guards and Enclosed CNC Grade Cable Carriers
- » 25MM Linear Guide Rails with Triple Wiper Technology Linear Guide Bearings
- » ShopSabre WinCNC Industrial PCI Driven controller
- » Operators Rolling Control Console with Integrated Windows OS
- » 19" Monitor, Keyboard, and Mouse Included
- » EnRoute Fabrication CAD/CAM Plasma Software
- » Windows Compatibility, networking, and on-board diagnosis
- » Access to ShopSabre SabreNation Support and Training (Ask for Details)

## AVAILABLE OPTIONS

- » Water Table Splash Guards
- » Automated Zone Controlled Down-Draft Table
- » Automated Torch Collision Detection system with Proximity Sensors and Automated E-Stop
- » XY Laser Sight for Quick Zero Reference
- » Pneumatic Vibratory Plate Marking Attachment
- » Marker Pen Attachment
- » Oxy-Fuel Torch
- » 4th Axis for Pipe Cutting – On and Off Table Options Available depending needs
- » Hypertherm Design2Fab Software
- » Hypertherm ProNest Software
- » EnRoute True Shape Nesting Module
- » 2D/3D Part Digitizing Touch Probe (Auto Tracer)
- » Sheet Alignment Brackets
- » Drill Head
- » EZ Sanders
- » Hypertherm PowerMax Plasma Cutters
- » Hypertherm XPRI70 and XPR300 HD Plasma Cutters
- » Thermal Dynamics UltraCut and AutoCut Plasma Cutters
- » Thermal Dynamics A-Series Plasma Cutters

**Don't See Something you want? Just Ask!**

## MACHINE SPECS

<b>Traversing Speed</b>	Up to 2500 IPM (with Servo's)
<b>Cutting Speed</b>	Up to 2500 IPM (Cutter Dependent)
<b>Resolution</b>	.0005"
<b>Repeatability</b>	+/- .001"

## CUTTING CAPACITY

<b>Plasma</b>	Up to 6"
<b>Oxy-Fuel</b>	Up to 8"

## CUTTING AREA

<b>PRO 8</b>	52" x 98"
<b>PRO 10</b>	64" x 121"
<b>PRO 12</b>	74" x 146"

## CONSTRUCTION

<b>Table</b>	Welded Structural Steel Construction
<b>Gantry</b>	Welded Structural Steel Construction
<b>Linear Rails</b>	25mm Precision HiWin Rails
<b>Foot Print</b>	<b>PRO 8</b> 63" x 111" x 60" <b>PRO 8</b> 80" x 144" x 60" <b>PRO 8</b> 92" x 168" x 60"
<b>Weight</b>	4000-4500 lbs
<b>Power Requirements</b>	20amp / 220 Volt

# SIDEKICK



## AVAILABLE PLASMA UNIT

- Hypertherm
- Thermal Dynamics



## PRODUCT DESCRIPTION

Every Fabricator needs a Sidekick, the ShopSabre SideKick Series was developed for the Entry Level budget but with the performance that can keep up with the busiest of shops. The ShopSabre SideKick Series Plasma Series takes Light Industrial Plasma to a whole new level. Whether you are a home hobbyist or production shop the ShopSabre SideKick Series delivers performance at a price you cannot afford to overlook. The SideKick Series is available in a 4x4, 4x8, 5x10, or 6x12 working area with a Standard Blow through style cutting table. The SideKick is available with our optional Integrated Welded 3" Steel Water Table, 6" Water Table with Bubbler Technology (for aluminum cutting), or Single Zone Down-Draft Table. One unique feature of the SideKick Series is it's ability to double down as a CNC Router, adding ShopSabre Exclusive Routing technology this machine can convert to a combo table giving you a true multi-tool for a fraction of the price.

The ShopSabre CNC Plasma machines are proudly engineered, designed, built, and supported in the U.S.A. Each machine ships completely assembled and pre-tested ready to cut day 1! The ShopSabre SideKick Series comes standard with North American Servo Motors with closed loop Encoder Technology on the X, Dual Y, and Z Axis. The X and Y Axis come with direct drive planetary gears removing unnecessary belt adjustments or belt wear. The SideKick Series is built for Speed and Performance using a standard definition Air Plasma Cutter such as the Hypertherm Powermax or Thermal Dynamics A Series Plasma Cutters. Whether your needs are high speed for thin gauge material or high heat tolerance for thicker Oxy Fuel Cutting this machine can handle all your demands and provides years of problem free cutting.

## STANDARD FEATURES

- » Blow through Cutting Bed with Complete Table Slats and Brackets (optional Water or Down-Draft Tables Available)
- » Fully welded structural steel tube construction
- » Large structural steel tube gantry construction
- » Advanced Digital Torch Height Control with Ohmic Touch.
- » Torch Distance Control Technology with Touch Indicator
- » Magnetic Breakaway Torch Mount with Integrated Torch Level

- » Advanced High Torque Servo Motors with Planetary Gear Drives and Closed Loop Encoder Technology.
- » Shielded Wire Guards and Enclosed CNC Grade Cable Carriers
- » 25MM Linear Guide Rails with Triple Wiper Technology Linear Guide Bearings
- » ShopSabre WinCNC Industrial PCI Driven controller
- » At Machine Computer System with Windows OS
- » 19" Monitor, Keyboard, and Mouse Included
- » EnRoute Fabrication CAD/CAM Plasma Software
- » Windows Compatibility, networking, and on-board diagnosis
- » Access to ShopSabre SabreNation Support and Training (Ask for Details)

## AVAILABLE OPTIONS

- » Water Table
- » Water Table Splash Guards
- » Single Zone Down-Draft Table
- » Automated Torch Collision Detection system with Proximity Sensors and Automated E-Stop
- » XY Laser Sight for Quick Zero Reference
- » Pneumatic Vibratory Plate Marking Attachment
- » Marker Pen Attachment
- » ShopSabre Level 1 Routing Technology including 3.25HP Porter Cable Router
- » ShopSabre Level 2 Advanced Routing Technology including HSD Industrial Italian Built Spindle with VFD
- » Vectric CAD/CAM Routing Software
- » Removable Routing Table Top with Integrated T-slot clamps
- » Dust Collectors for Routing
- » Dust Boot for Routing
- » Oxy-Fuel Torch
- » 4th Axis for Pipe Cutting – On and Off Table Options Available depending needs
- » Hypertherm Design2Fab Software
- » Hypertherm ProNest Software
- » EnRoute True Shape Nesting Module
- » Rolling Controller Stand
- » Machine Mounted Controller Stand
- » 2D/3D Part Digitizing Touch Probe (Auto Tracer)
- » Sheet Alignment Brackets
- » Drill Head
- » EZ Sanders
- » Hypertherm PowerMax Plasma Cutters
- » Thermal Dynamics A-Series Plasma Cutters

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## MACHINE SPECS

<b>Traversing Speed</b>	Up to 1000 IPM (with Servo's)
<b>Cutting Speed</b>	Up to 1000 IPM (Cutter Dependent)
<b>Resolution</b>	.0005"
<b>Repeatability</b>	+/- .001"

## CUTTING CAPACITY

<b>Plasma</b>	Up to 1"
<b>Oxy-Fuel</b>	Up to 2"

## CUTTING AREA

<b>SIDEKICK 4</b>	52" x 49"
<b>SIDEKICK 8</b>	52" x 98"
<b>SIDEKICK 10</b>	65" x 122"
<b>SIDEKICK 12</b>	78" x 146"

## CONSTRUCTION

<b>Table</b>	Welded Structural Steel Construction
<b>Gantry</b>	Welded Structural Steel Construction
<b>Linear Rails</b>	25mm Precision HiWin Rails
<b>Foot Print</b>	<b>SIDEKICK 4</b> 81" x 70" x 66" <b>SIDEKICK 8</b> 81" x 118" x 66" <b>SIDEKICK 10</b> 93" x 145" x 66" <b>SIDEKICK 12</b> 106" x 166" x 66"
<b>Weight</b>	1800-3000 lbs
<b>Power Requirements</b>	20amp / 110 Volt



# A BUSINESS BORN OF NECESSITY, HARD WORK, AND INSPIRATION

## BACKGROUND

Years ago Jim Bombardo, founder of ShopSabre, had an idea to build a CNC machine to do crafts for his wife's business. Jim knew that if he did not have a machine capable of producing parts, he would have many long hours of back breaking work to do by hand. With a background in engineering and software, he started the project of building his own CNC machine.

After the initial days and weeks of research, Jim knew that he had to have a system that was an industrial design which would provide fewer headaches and years of problem-free service. His first machine was a full ball screw driven machine with industrial components throughout. Now he could produce parts for hours with ease and great precision.

After running the machine for some time, friends and acquaintances saw it and were amazed by its fully welded construction, power, precision and overall quality. After getting offers to sell it and hours of convincing, Jim sold the machine and decided he would build another for himself. Armed with experience and new ideas, the second machine went together much quicker, and Jim was once again convinced to sell it.

During the construction of the third machine, Jim had done further research in the CNC market and was amazed that no one offered an industrial quality machine under \$60,000. The only machines on the market were small bolt-together machines, and the components being used were simply hobbyist in quality. After seeing everything and doing this research, Jim decided to take this third machine to the Woodworkers show in Atlanta.

During the show he received a lot of attention and accolades for the machine design. When the show was finished they had over a dozen request for orders. Every client was willing to wait for the machine as they understood the quality and components put into each one.

After arriving back home, a facility was constructed for the manufacturing of the new CNC machines, and ShopSabre was born. Jim had started with himself, four sons, and his wife.

ShopSabre is a self-funded company and the machines are constructed from the ground up with every component being closely monitored to ensure it works flawlessly. ShopSabre's philosophy is simple: Customer Service is Everything. Each machine is tested for hours before it leaves to ensure power, precision, quality and reliability.

Currently there are over 5,000 machines around the world in over 29 countries. ShopSabre CNC has experienced enormous growth in the past few years, and has received recognition from some of the largest manufacturers of cabinets, aerospace parts and equipment, signs and many other industries. Business owners and engineers are seeing that you do not have to spend \$100k or more on a machine that can produce precision parts three shifts a day every day of the week.

ShopSabre is continuing to be on the cutting edge of CNC technology with the release in January '08 of its fastest and most powerful machine under \$100,000. ShopSabre's ability to monitor every part of the build cycle and every industrial component put into the machine each one is built to perfection before it leaves regardless if it is a router, spindle, laser, plasma, tangential knife or other product.

Jim is still personally involved in the construction and assembly of nearly every machine. With new products in the works and growth continuing at an astonishing rate, ShopSabre will continue to be a leader in affordable CNC machines.

# Buy your Second Machine the First Time

**ShopSABRE**  
• ROUTERS • PLASMA CUTTERS •

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Central Standard Time*

*Plasma Catalog  
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