### <u>Shopsabre</u>

ROUTERS
 PLASMA CUTTERS

Professional CNC Router and Plasma Cutting Tables

for Metal, Wood, and Plastic



ShopMaster Pro 12 ShopMaster Pro 10 ShopMaster Pro 8 Sidekick 12 Sidekick 10

Sidekick 8

Sidekick 4





# Our systems are not designed to be one or two project a week machines.

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

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.

### 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 and no customer assembly is 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 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 cut forces are equally distributed over the rail to reduce the amount of wear and noise. The triple sealed bearing blocks assure that no matter how much debris and dust build up on the rails you will not get failure to the bearings. The design also makes the machine a self-cleaning system without the worry of wiping down the rails or watching for buildup. All ShopSabre CNC Plasma machines are driven with top rated Servos on all 3 of our axes and our XYZ are driven by high precision Drive Technology with the ShopSabre "Floating Drive Technology on X & Y Axis. The ShopSabre Z Axis Ball Screws are Ball Matched Angular Contact Bearing to assure the highest accuracy possible. The ShopSabre CNC drives are all driven by Name Brand High Quality Drives with Planetary Gear Systems to increase performance and reduce maintenance.





#### Professional-grade CNC controller

ShopSabre uses the best of both worlds when it comes to a controller. We use an Industrial 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 and you can load your CAD/CAM software on the machine computer too 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, Storage, or On-line diagnosis/assistance.

The 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 entry level needs 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. 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'tbe fooled by competitor's quotes, Many only provide you with thebasics 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 ofOptions. ShopSabre also can attach a Drill to **ANY** of our CNC Plasma systems so you are not limited to the size of hole you can produce with your CNC Plasma system.

#### 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, Spindle Plate, 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.
- » 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.
- > ShopSabre CNC can also offer Laser calibrations by request, with **EVERY** build we do what we would expect to assure our machines are as accurate as possible during manufacturing.
- > 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.
- > ShopSabre sales are not paid on commission so the only reason for them to recommend an option is truly to benefit your project and machine capabilities. ShopSabre has no reason to encourage you to spend more money than you need to up front to perform your job. 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 Pro 12

#### Plasma Table

#### Available Plasma Unit

- Hypertherm
- Thermal Dynamics
- HiDefinition available for this model

Hypertherm THERMAL DYNAMICS.

#### Product Description

The ShopSabre Pro 12 is our top of the line plasma table. With an 24" deep water table the ShopMaster Pro 12 is great for HiDefinition cutting and thick Oxy-Fuel cutting. The ShopMaster Pro series uses state of the art control system's as well as top of the line components. Your ShopMaster table will ship to your door on a flatbed truck fully assembled and ready to run.

#### **Standard Options**

- » Fully adjustable water tank (optional Down-Draft Available)
- » Fully welded steel construction
- » Large Structural steel Gantry Construction
- » Advanced Digital Torch Height Control with Optical Touch
- » Torch Distance Control
- » Breakaway Torch Mount
- » Advanced Servo Motors with Planetary Gear Drives
- » ShopSabre WinCNC controller
- » Hiwin precision rails
- » Control Console
- » PC based controller with HiDefinition 37 pin cable
- » Shielded Wire Guards
- » CNC Grade Cables and Carriers
- » PC with Windows Compatibility, networking, and on-board diagnosis
- » Includes a 19" LED Monitor
- » ShopSabre QuickDraw Software



#### **Machine Specs**

Traversing Speed	Up to 2000 IPM (with Servo's)
Cutting Speed	Up to 2000 IPM
Resolution	.0005
Repeatability	+/001"

#### **Cutting Capacity**

Plasma	Up to 4"
Oxy-Fuel	Up to 6"

#### **Cutting Area**

Width -	74" x 146'
Length	/4 X 140

Table	Welded Steel Construction
Gantry	Welded Steel Construction
Linear Rails	25mm Precision HiWin Rails
Foot Print	92" x 168" x 60"
Weight	4500 lbs
Power Requirements	20amp / 110 Volt



# ShopMaster Pro 10 Plasma Table

#### **Popular Industries**

- Hypertherm
- Thermal Dynamics
- HiDefinition available for this model

Hypertherm THERMAL DYNAMICS

#### **Product Description**

The ShopSabre Pro 10 is our top of the line plasma table. With an 24" deep water table the ShopMaster Pro 10 is great for HiDefinition cutting and thick Oxy-Fuel cutting. The ShopMaster Pro series uses state of the art control system's as well as top of the line components. Your ShopMaster table will ship to your door on a flatbed truck fully assembled ready to run.

#### **Standard Options**

- » Fully adjustable water tank (optional Down-Draft Available)
- » Fully welded steel construction
- » Large Structural steel Gantry Construction
- » Advanced Digital Torch Height Control with Optical Touch
- » Torch Distance Control
- » Breakaway Torch Mount
- » Advanced Servo Motors with Planetary Gear Drives
- » ShopSabre WinCNC controller
- » Hiwin precision rails
- » Control Console
- » PC based controller with HiDefinition 37 pin cable
- » Shielded Wire Guards
- » CNC Grade Cables and Carriers
- » PC with Windows Compatibility, networking, and on-board diagnosis
- » Includes a 19" LED Monitor
- » ShopSabre QuickDraw Software



#### **Machine Specs**

Traversing Speed	Up to 2000 IPM (with Servo's)
Cutting Speed	Up to 2000 IPM
Resolution	.0005
Repeatability	+/001"

#### **Cutting Capacity**

Plasma	Up to 4"
Oxy-Fuel	Up to 6"

#### **Cutting Area**

Width - 74" x 146"

Table	Welded Steel Construction
Gantry	Welded Steel Construction
Linear Rails	25mm Precision HiWin Rails
Foot Print	80" x 144" x 60"
Weight	4000 lbs
Power Requirements	20amp / 110 Volt



# **ShopMaster Pro 8**Plasma Table

#### **Popular Industries**

- Hypertherm
- Thermal Dynamics
- HiDefinition available for this model

Hypertherm THERMAL DYNAMICS

#### **Product Description**

The ShopSabre Pro 8 is our top of the line plasma table. With an 24" deep water table the ShopMaster Pro 8 is great for HIDefinition cutting and thick Oxy-Fuel cutting. The ShopMaster Pro series uses state of the art control system's as well as top of the line components. Your ShopMaster table will ship to your door on a flatbed truck fully assembled ready to run.

#### **Standard Options**

- » Fully adjustable water tank (optional Down-Draft Available)
- » Fully welded steel construction
- » Large Structural steel Gantry Construction
- » Advanced Digital Torch Height Control with Optical Touch
- » Torch Distance Control
- » Breakaway Torch Mount
- » Advanced Servo Motors with Planetary Gear Drives
- » ShopSabre WinCNC controller
- » Hiwin precision rails
- » Control Console
- » PC based controller with HiDefinition 37 pin cable
- » Shielded Wire Guards
- » CNC Grade Cables and Carriers
- » PC with Windows Compatibility, networking, and on-board diagnosis
- » Includes a 19" LED Monitor
- » ShopSabre QuickDraw Software



#### **Machine Specs**

Traversing Speed	Up to 2000 IPM (with Servo's)
Cutting Speed	Up to 2000 IPM
Resolution	.0005
Repeatability	+/001"

#### **Cutting Capacity**

Plasma	Up to 4"
Oxy-Fuel	Up to 6"

#### **Cutting Area**

Width -	54" x 98
Length	34 X 90

Table	Welded Steel Construction
Gantry	Welded Steel Construction
Linear Rails	25mm Precision HiWin Rails
Foot Print	72" x 120" x 60"
Weight	3000 lbs
Power Requirements	20amp / 110 Volt



### Sidekick 12 Plasma Table

#### **Popular Industries**

- Hypertherm
- Thermal Dynamics

Hypertherm THERMAL DYNAMICS

#### **Product Description**

The ShopSabre SideKick Plasma/ Router table is the most rigged and affordable combination table in the market, excellent for all metal plasma cutting and plastic and wood routing. This machine is designed for hobbyists or full production shops. Its fully welded steel construction is capable of cutting continuously in a full production setting. The SideKick 12 features Hiwin linear rails with state of the art motion control. Many manufacturing plants, from household appliance manufacturers, automotive shops and law enforcement agencies have utilized these machines to increase productivity. This model will ship to your door as a fully assembled unit ready to run. You will not find a more durable plasma/router combo machine on the market for this price!

#### **Standard Options**

- » Fully Welded Steel Construction
- » Large Structural steel Gantry construction
- » Advanced Digital Torch Height Control with Optical Touch
- » Torch Distance Control
- » Breakaway Torch Mount
- » Advanced Servo Motors with Planetary Gear Drives
- » WinCNC controller
- » Hiwin precision rails
- » Control Console
- » PC based controller with HiDefinition 37 pin cable
- » Shielded Wire Guards
- » CNC Grade Cables and Carriers
- » PC with Windows Compatibility, networking, and on-board diagnosis
- » Includes a 19" LED Monitor
- » QuickDraw Software

### Machine Specs

Traversing Speed	Up to 1000 IPM (with Servo's)
Cutting Speed	Up to 1000 IPM
Resolution	.0005
Repeatability	+/001"

#### **Cutting Capacity**

Plasma	Up to 1"
Oxy-Fuel	Up to 2"

#### **Cutting Area**

Width -	78" x 146
Length	70 X 140

Table	Welded Steel Construction
Gantry	Welded Steel Construction
Linear Rails	25mm Precision HiWin Rails
Planetary	Gear Drives
Advanced	Servo Gear Drives
Foot Print	111" x 161" x 60"
Weight	2400 lbs
Power Requirements	20amp / 110 Volt



# **Sidekick 10**Plasma Table

#### **Popular Industries**

- Hypertherm
- Thermal Dynamics

Hypertherm THERMAL DYNAMICS

#### **Product Description**

The ShopSabre SideKick Plasma/ Router table is the most rigged and affordable combination table in the market, excellent for all metal plasma cutting and plastic and wood routing. This machine is designed for hobbyists or full production shops. Its fully welded steel construction is capable of cutting continuously in a full production setting. The SideKick 10 features Hiwin linear rails with state of the art motion control. Many manufacturing plants, from household appliance manufacturers, automotive shops and law enforcement agencies have utilized these machines to increase productivity. This model will ship to your door as a fully assembled unit ready to run. You will not find a more durable plasma/router combo machine on the market for this price!

#### **Standard Options**

- » Fully Welded Steel Construction
- » Large Structural steel Gantry construction
- » Advanced Digital Torch Height Control with Optical Touch
- » Torch Distance Control
- » Breakaway Torch Mount
- » Advanced Servo Motors with Planetary Gear Drives
- » WinCNC controller
- » Hiwin precision rails
- » Control Console
- » PC based controller with HiDefinition 37 pin cable
- » Shielded Wire Guards
- » CNC Grade Cables and Carriers
- » PC with Windows Compatibility, networking, and on-board diagnosis
- » Includes a 19" LED Monitor
- » QuickDraw Software



Traversing Speed	Up to 1000 IPM (with Servo's)
Cutting Speed	Up to 1000 IPM
Resolution	.0005
Repeatability	+/001"

#### **Cutting Capacity**

Plasma	Up to 1"
Oxy-Fuel	Up to 2"

#### **Cutting Area**

Width -	64" x 122
Length	04 X 1CC

Table	Welded Steel Construction	
Gantry	Welded Steel Construction	
Linear Rails	25mm Precision HiWin Rails	
Planetary	Gear Drives	
Advanced	Servo Gear Drives	
Foot Print	102" x 136" x 60"	
Weight	2400 lbs	
Power Requirements	20amp / 110 Volt	



# Sidekick 8 Plasma Table

#### **Popular Industries**

- Hypertherm
- Thermal Dynamics

Hypertherm THERMAL DYNAMICS

#### **Product Description**

The SideKick 8 cutting machine is designed for the hobbyist to a full production shop. This fully welded steel construction is capable of cutting continuously in a full production setting. The SideKick 8 features Hiwin linear rails with state of the art motion control. The SideKick 8 has been installed in various settings. Many schools have found this model to be a great tool for teaching new students the world of CNC manufacturing. This model will ship to your door as a fully assembled unit ready to run. You will not find a more durable plasma machine on the market for this price!

#### **Standard Options**

- » Fully Welded Steel Construction
- » Large Structural steel Gantry construction
- » Advanced Digital Torch Height Control with Optical Touch
- » Torch Distance Control
- » Breakaway Torch Mount
- » Advanced Servo Motors with Planetary Gear Drives
- » WinCNC controller
- » Hiwin precision rails
- » Control Console
- » PC based controller with HiDefinition 37 pin cable
- » Shielded Wire Guards
- » CNC Grade Cables and Carriers
- » PC with Windows Compatibility, networking, and on-board diagnosis
- » Includes a 19" LED Monitor
- » QuickDraw Software



#### **Machine Specs**

Traversing Speed	Up to 1000 IPM (with Servo's)
Cutting Speed	Up to 1000 IPM
Resolution	.0005
Repeatability	+/001"

#### **Cutting Capacity**

Plasma	Up to 1"
Oxy-Fuel	Up to 2"

#### **Cutting Area**

Width -	52" x 98'
Length	JE X 90

Table	Welded Steel Construction
Gantry	Welded Steel Construction
Linear Rails	25mm Precision HiWin Rails
Planetary	Gear Drives
Advanced	Servo Gear Drives
Foot Print	85" x 111" x 60"
Weight	2000 lbs
Power Requirements	20amp / 110 Volt





# Sidekick 4 Plasma Table

#### **Popular Industries**

- Hypertherm
- Thermal Dynamics

Hypertherm THERMAL DYNAMICS

#### **Product Description**

The SideKick 4 cutting machine is designed for the hobbyist to a full production shop. This fully welded steel construction is capable of cutting continuously in a full production setting. The SideKick 4 features Hiwin linear rails with state of the art motion control. This model will ship to your door as a fully assembled unit ready to run. You will not find a more durable plasma machine on the market for this price!

#### **Standard Options**

- » Fully Welded Steel Construction
- » Large Structural steel Gantry construction
- » Advanced Digital Torch Height Control with Optical Touch
- » Torch Distance Control
- » Breakaway Torch Mount
- » Advanced Servo Motors with Planetary Gear Drives
- » WinCNC controller
- » Hiwin precision rails
- » Control Console
- » PC based controller with HiDefinition 37 pin cable
- » Shielded Wire Guards
- » CNC Grade Cables and Carriers
- » PC with Windows Compatibility, networking, and on-board diagnosis
- » Includes a 19" LED Monitor
- » QuickDraw Software



#### **Machine Specs**

Traversing Speed	Up to 1000 IPM (with Servo's)
Cutting Speed	Up to 1000 IPM
Resolution	.0005
Repeatability	+/001"

#### **Cutting Capacity**

Plasma	Up to 1"
Oxy-Fuel	Up to 2"

#### **Cutting Area**

Width - 52" x 49"

Table	Welded Steel Construction
Gantry	Welded Steel Construction
Linear Rails	25mm Precision HiWin Rails
Planetary	Gear Drives
Advanced	Servo Gear Drives
Foot Print	85" x 63" x 60"
Weight	1400 lbs
Power Requirements	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 more quickly, 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.



## <u>Shopsabre</u>

• ROUTERS • PLASMA CUTTERS •

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