



2012

CATALOG

GROWTH SERIES | TM2 | TM3 | TMX | ROUTERMATE | SOFTWARE | ACCESSORIES

TORCHMATE
A Lincoln Electric Company



WELCOME TO TORCHMATE

For more than 30 years Torchmate CNC Cutting Systems, now a division of Lincoln Electric, has been bringing affordable CNC plasma cutting tables and other automation solutions to enthusiasts, shops and manufacturers around the world.

OUR CORNERSTONES: AFFORDABILITY. QUALITY. SERVICE. COMMITMENT TO CUSTOMERS.

Having more options and accessories than any other CNC cutting table manufacturer on the market allows us to personalize a machine just for you. Whether incorporating a plasma cutter, oxy fuel system, plate marker, or router you can count on your Torchmate system to deliver the highest precision and repeatability on the market. Torchmate offers a wide range of products from our 2x2 Growth Series™ system up to a 12'x60' Torchmate X high definition system, an economical Gantry Kit to get started or a completely turn-key industrial CNC system craned into place. The perfect solution is within your grasp. Torchmate sets the bar when it comes to industry-leading service and support before and after your purchase.



BOTTOM LINE: Our success hinges on your success. Call us toll free today at (866)571-1066 or internationally at (775) 673-2200 and let one of our trained professionals guide you through every step of the CNC cutting process. Why not join thousands of satisfied customers already members of the growing Torchmate family.

SPANISH SPEAKING SALES DEPARTMENT:

¿Se habla español? Torchmate esta orgulloso de ofrecer a nuestros clientes el nuevo departamento de ventas en español. Para mayor información de nuestro productos y ventas contacte nuestro representante de ventas (775) 673-2200, 57(1) 5669006, o envíenos su información y preguntas a ventas@Torchmate.com. Teni mos la solución en sistemas de corte CNC para toda la industria, nuestros sistemas de corte están disponibles en todo Latino América.



PROUDLY MADE IN THE USA



TORCHMATE

**"BEST SYSTEM
MONEY CAN BUY."**

Casey Huskey | Metal Headz LLC

TORCHMATE GUARANTEE.

FREE LIFETIME TECHNICAL SUPPORT. CALL US TOLL FREE: (866) 571-1066

All Torchmate CNC cutting systems feature heavy duty construction, precise motion systems, reliable drive motors, electronics, and easy to use software. Torchmate offers a number of table options such as turn-key units that are fully constructed, fully tested industrial grade machines; to systems available as gantry kits to bolt-together tables requiring assembly with hand tools; to our latest portable Growth Series. Torchmate has the CNC product to fit your needs and your budget – now more than ever before. Our systems are backed by our unlimited free phone and web technical support for the life of your product. We will personally guide you through building, designing, cutting, and operating your machine. All of our products are backed by our over 30 years of business and over 15,000 machines in the global marketplace.

Stop paying too much for your parts and start on the road to success. Join the CNC revolution today!

AFFORDABILITY.

Torchmate offers economical gantry kits, bolt-together CNC machines as well as turn-key ready units.

With so many options we've made sure there is a budget-friendly CNC solution for even the smallest home shop.

QUALITY.

Our success hinges on your success. We only offer products to the public after hundreds of hours of engineering, testing, and quality assurance verification.

SERVICE.

From our smallest machines to our largest, Torchmate CNC cutting systems come with customer service second to none. We are proud to set the bar when it comes to our free lifetime technical support – the industry's finest.

COMMITMENT.

Commitment is an easy word to use, but hard to truly achieve. We have been creating world-class CNC cutting systems for customers all over the world for three decades. Our success comes down to one defining principle – be the best at what we do.

CUSTOMER PROJECTS

WHATEVER THE JOB - TORCHMATE HAS THE CNC SOLUTION FOR YOUR NEEDS



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A TOOL FOR EVERY JOB



"I love my 2x2! Thank you for putting a tool like this within reach of a small shop."

Curt Kemper | Happy 2x2 owner

GROWTH SERIES™

2X2, 2X4, & 4X4 EXPANDABLE SIZES FOR YOUR GROWING NEEDS

Every once in a while a product is introduced that changes the world. What the Torchmate Growth Series™ CNC Prototyping System brings is a revolution. The Growth Series™ is designed to change the way you make parts at home, school, or a small fabrication shop. Designed to be versatile, mobile and easy to use the Growth Series™ brings CNC Plasma Cutting, CNC Routing, and CNC Plate Marking to you in one tight little package.

The Growth Series™ encompasses three table sizes, the 2x2, 2x4 and, 4x4 along with three optional water tables.

Growth is a necessity for your business and a key component to these unique tables. A Growth Series™ table is designed from the ground up to scale with your business. Start with a 2x2

and as your needs grow you can upgrade through the product line to a 4x4 machine as the demand for your parts increases. The price of the upgrade is the price difference of the two machines.

The Growth Series™ has been designed with small metal shops, sheet metal companies, career and technical schools, hobbyists and the off-road and racing industries in mind. The Growth Series™ can be used to design and cut everything from intricate and professional-quality metal parts, to chassis or suspension components, to signs and lettering.

When the Growth Series™ is combined with the optional water table cutting bed virtually all dust and smoke is contained. Most people don't understand just how dirty plasma cutting can be until it's in

their shop. A water table cutting bed also allows the metal to remain cool to the touch and helps prevent material warping from the heat.

The entire Growth Series™ line features solid steel construction, precision components, and industry-standard motion controls that allow this small package to produce parts identical to large industrial CNC machines.

Imagine a world where fabrication starts in the garage, where all elements of industry are accessible to the small shop, and repairs and prototypes are accomplished on your own. The Growth Series™ will lead the way!

Conceptualize. Design. Execute.
The Torchmate Growth Series™.



OPTIONAL
ROUTING ATTACHMENT

WHAT IS A WATER BED?

The plasma process vaporizes metal into a fine dust that can work its way into every crevasse and corner of your shop, like a circular saw & saw dust. All your tools, clothes, electronics and floor will be coated in fine metallic dust. In the past the popular option was a venting or downdraft solution that relocated the smoke and dust out of the building along with heat and air conditioning. Most venting systems consume energy, have moving parts, and use costly replaceable filters that are largely inefficient. A much better process is a water table, utilizing no moving parts, no electricity, no change in shop temperature and virtually no maintenance. Water is able to contain dust and smoke from the plasma process and does not change the cut shape. At the same time parts cool quickly and material warping from heat is greatly reduced. Simply put, a Torchmate water table is the simplest way to deal with smoke and dust in a shop.

FOR A COMPLETE LIST AND DESCRIPTIONS OF AVAILABLE PLASMA CUTTERS, OPTIONS, ACCESSORIES AND SOFTWARE FOR THESE UNITS LOG ONTO WWW.TORCHMATE.COM



“Thanks to my Torchmate CNC plasma table, my business has taken off! My machine has already paid for itself...”

Glen Porter | U S Metal Cutting

TORCHMATE 1

WHO IS THE BEST FABRICATOR? YOU ARE!

TMI
TM2 | TM3 | TMX | ROUTERMATE | SOFTWARE | PLASMA CUTTERS | ACCESSORIES | SPECIFICATIONS



Most people who have a need for a CNC cutting machine are metal fabricators, who, given enough time, could probably design their own table. However, just because they can doesn't mean they should. While CNC machines may look simple, it takes hours of experimentation and modifications before your circles are true and outcomes are repeatable. Spending countless hours of time only to end up with an inferior machine and no warranty is senseless. This time is better spent using the machine for its original intent – cutting!

Those who want to save money by doing the majority of the fabrication can do so by purchasing a Torchmate 1 do-it-yourself weld together kit. The Torchmate 1 is the original CNC table for the do-it-yourself crowd. It allows shops to benefit from the CNC process without justifying the high cost of large industrial units.

A Torchmate 1 will do the same cutting your shop currently does, but 50 to 100 times faster than by

hand. Using your mind and not your hands, allows you to work smarter, not harder. Enabling your business to compete in a growing automated market.

The Torchmate 1 kit is available from a 4'x4' to a 6'x20' cutting area. Requiring metal fabrication skills, you construct and assemble the entire gantry and table from steel you purchase locally. We provide plans, software, electronics, all the brackets, control components, motors, cables and the technical support to back you up. Simply follow our full color directions to create a machine that fits your shop needs, layout, and demands.

It is not uncommon for Torchmate 1 owners to run their machines 8-10 hours per day, 365 days per year. The Torchmate 1 has permitted thousands of customers to realize the precision and efficiency of CNC production that once was out of reach.



WHAT IS A DIY WELD KIT?

Torchmate's DIY Weld kit includes the basic items you'll need to fabricate a world-class CNC cutting machine. We've eliminated all of the complicated design work so the trial and error of developing your own system is eliminated. You weld the main table and fabricate the gantry according to the provided plans. Standard features of a DIY kit include complete instructions, steel brackets, micro-stepper drive motors, USB plug 'N' play control box, cables, gears and racks, guide rollers, timing pulleys, belts, and software. The electronics and software are user friendly and require you only to connect the electronics according to full instructions provided with the system. By providing your own local steel you save on shipping, and are able to build any size table without drastically changing the price you pay. With the DIY weld kit it is easy to customize a CNC table to suit your needs.





"It has replaced many tools I used to rely on including a horizontal band saw, hole saws, a vertical band saw and whole box of other tools. It does everything I expected it to, plus a 1000 other things I hadn't even imagined." Fred Nelson | Fred Nelson Fabrication

TORCHMATE 2

FULL SIZE MACHINE TO SUIT YOUR SMALL SIZE BUDGET



One of our most versatile machines, the Torchmate 2 is designed for a wide variety of workplace environments. Available as a bolt together table or gantry kit, customers can select just the right size and configuration to meet both their budgets and manufacturing needs.

All Torchmate 2 tables utilize an easy, hand-tool assembled gantry that features a precise linear slide and cassette system. This gantry moves along a rail that's supported on both sides for the length of the machine.

The bolt together option includes an aluminum extrusion support table that's assembled with basic hand tools. This table includes everything needed to start cutting except simple support slats made from locally acquired hot roll steel flat bar.

The bolt together option is ideal for customers needing a simple frame requiring no welding or fabrication experience. No measuring or cutting

is necessary to build the table, all components are shipped ready to assemble. The bolt together frame is as sturdy as a steel frame of the same design, and allows you to alter or transport the table easily.

The gantry kit option consists of a Torchmate 2 gantry along with plans for both a basic support table and also a water table that lend themselves to customizing. You provide the steel and fabrication know-how to construct a support table.

The Torchmate 2 machine is an economical way of purchasing a large sized table capable of producing the same quality parts as full scale industrial tables. Torchmate 2 machines are the embodiment of versatility, accuracy, and simplicity. Multiple processes are supported from plasma cutting to routing of wood, plastic, and foam. The Torchmate 2 can expand the capabilities of a shop into industries that single purpose machines simply can't.



OPTIONAL
PLATE MARKER

WHAT IS A GANTRY KIT?

Customers that have welding and fabrication skills find that they want a CNC table that can be customized to meet their needs or personality. A gantry kit provides customers this versatility without losing accuracy. You build the heavy support frame using locally purchased steel based on the provided plans. Our gantry integrates all of the crucial components needed to create a precise table from a simple frame. No accuracy is lost in constructing your own frame. If you have basic welding and fabrication skills a gantry kit is a great way to save money by investing a bit of your know how into the CNC project. Customers wanting to integrate a water table, fume extraction system, specialized jigs, support thick steel, or build a table to fit a unique environment find the gantry kit more than up to the task. All our gantry kit tables are backed by the same warranty and technical support of our bolt-together and turn-key tables.





“We are pleased with your machine and your support and highly recommend Torchmate equipment as an excellent addition to any machine or fabrication shop.”

Deanne Weier | PDJ Cutting and Fabricating

TORCHMATE 3

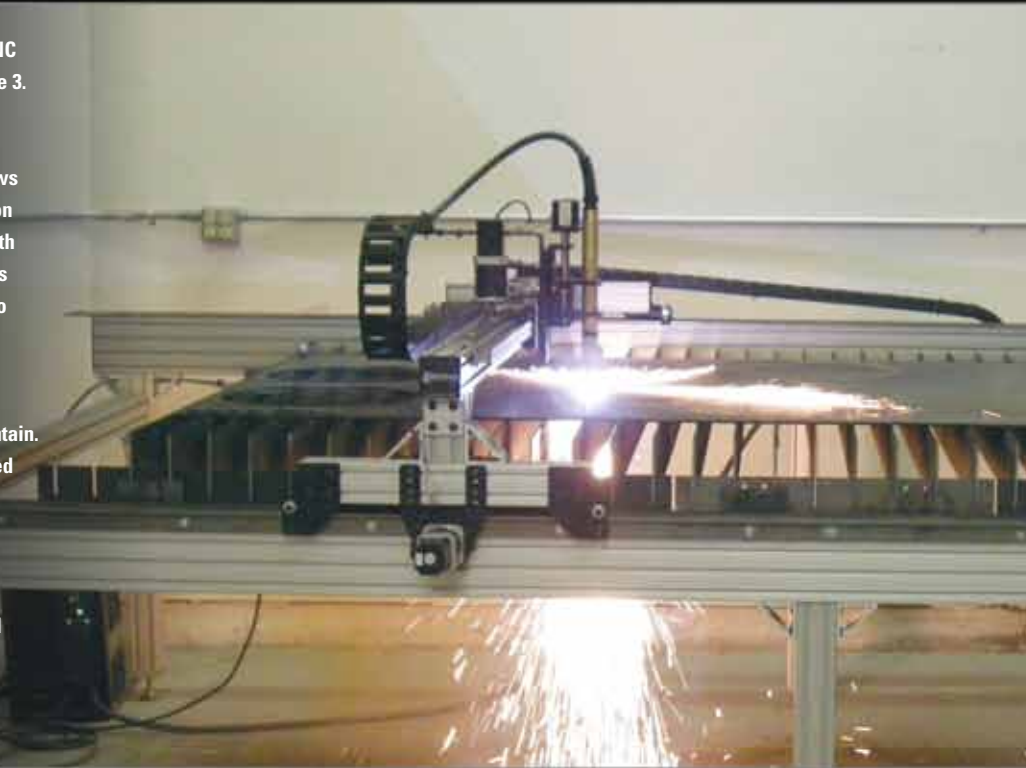
THE LIGHT INDUSTRIAL MACHINE TO SUIT YOUR BUDGET



Customers needing an industrial solution to CNC cutting need look no further than the Torchmate 3. It is designed from the ground up to be rugged, accurate, and simple. The key feature of the Torchmate 3 is a dropped side rail, which allows forklift loading without exposing critical motion components to damage. Couple this feature with burly 3"x6" rail supports and the Torchmate 3 is ready for multiple shift cutting – from plasma to oxy fuel cutting to plate marking.

In a demanding industrial environment drive components need to be simple and easy to maintain. The Torchmate 3 utilizes low backlash enclosed gear boxes for smooth, repeatable motion.

Our global family of Torchmate 3 customers build ships, tanks, off-road vehicles, gates, doors, sculptures and thousands of other metal components. Available as a gantry kit or in bolt together frame, the Torchmate 3 can meet the demands of a high volume shop.



OPTIONAL
ARC VOLTAGE HEIGHT CONTROL

WHAT IS A BOLT TOGETHER FRAME?

Easy to assemble, easy to modify, easy to align and easy to use, a bolt together frame is the epitome of simplicity. You only need simple hand tools to build a rigid support frame that can meet all your metal cutting needs. Torchmate's bolt together frames use heavy duty extruded aluminum sections to create a modular frame. The t-nut and bolt concept allows the table to be configured and reconfigured over and over again. It is the adult Lego™ set. You do not need any welding or fabrication skill to assemble a Torchmate bolt together frame and most frames can be completed in less than a day. For decades, the modular design has proven to be a solid support frame for CNC cutting. The extrusions are straight, strong, accurate and will last a lifetime.





“I want to compliment you on your staff’s terrific customer service & genuine desire to help. It has been a pleasure doing business with the company.”

Bob Miller | New Customer



TORCHMATE X

A FULL SCALE INDUSTRIAL MACHINE READY FOR ACTION

Heavy duty industries require heavy duty machinery, and the Torchmate X is there to fill the CNC need of your production line. From the ground up the Torchmate X is a solid steel table available as a gantry kit, turn key water table, or turn key downdraft table. Unload the pre-configured table, cut the shrink wrap off, plug it in and start cutting parts.

The Torchmate X turn key water table features a dual chamber adjustable water bed made of robotic welded steel chambers. No moving parts. No bladders. Nothing to fail. And best of all, no smoke!

Simple shop air is fed into the machine to quickly change the water level. Cut parts can be quenched and retrieved with ease.

The Torchmate X gantry is extra wide, allowing for multiple processes to be mounted simultaneously for increased versatility in your finished parts. The Torchmate X is ideal for high definition plasma cutting and multi-torch stations. Fast reliable cutting delivered to your door – ready to work.



GANTRY SUPPORTS
MULTIPLE CNC PROCESSES

WHAT IS A TURN KEY MACHINE?

For the discerning customer a pre-configured table is delivered on a flatbed truck to your door. This table has been built to your specification, set-up and tested at Torchmate's Reno, Nevada assembly facility. The table is then carefully packaged, shrink wrapped and shipped to your location. Your operators simply cut the shrink wrap open, level the machine, plug in the power, run air and they are ready to work. Full instructions, videos, and how-to guides are provided to get production ramped up as quickly as possible. With all turn key tables on-site set-up and training is available, ensuring efficient productivity from the very moment the CNC machine hits your floor. Our on-site technicians are experienced in all CNC processes from plasma, oxy fuel, tube cutting, plate marking and part design. Designed to maximize your investment with minimal set-up time, a turn key CNC machine is the fastest most dependable way to profit.





“The Torchmate machine is like having your own A.T.M. machine you put material on it and pull the cash off it. The Torchmate machine has allowed me to work for myself and control my destiny...”

Eric Koehler | Angstrom Shop



ROUTERMATE

A VERSITAL MULTI-PROCESS CNC PLATFORM

When basic plasma cutting is not enough, the Routermate is there to fill the void. The Routermate is designed for milling aluminum, drilling/tapping, routing wood, foam and plastic all while plasma cutting too. The Routermate is the versatile platform for the do-it-all shop, a true versatile machine for almost any use.

The Routermate is able to mount a variety of tools on its heavy duty extruded aluminum gantry. All traditional Torchmate accessories can mount to the gantry as well as a spindle, drill and tapping accessory. The multi-function platform can operate all of these tools for the ultimate parts creation machine.

The Routermate's primary design goal is milling aluminum and dense plastics. This is accomplished through the use of an industrial z-axis and a powerful variable speed spindle. The Routermate's design enables custom three dimensional parts creation at high speed with precise results.



WHAT IS THE ROUTERMATE Z-AXIS?:

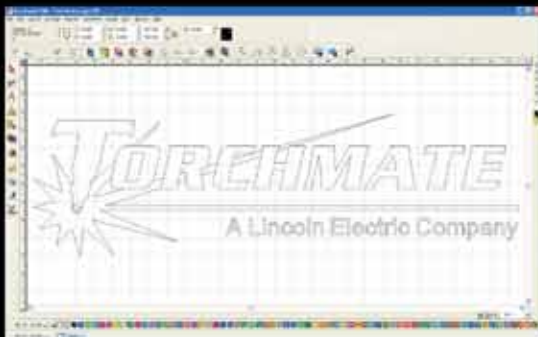
Heavy duty industrial applications require a durable z-axis that can stand up to the downforce required for drilling and maintain the accuracy required for high speed milling. The Routermate's z-axis is comprised of two precision linear slides and three sealed cassettes for lateral stability that creates a rigid platform. A lead screw capable of over 700 pounds of downforce ensures power is there when you need it. The entire mechanical assembly is shielded from the harsh industrial environment to ensure reliable performance and long parts life. The reliability of the z-axis and the Routermate have been verified in the field over and over again by many satisfied customers. It's a true industry work horse. A versatile platform, the z-axis can mount a full range of tools from spindles, wood routers, drills and tapping mechanisms.



SOFTWARE

SHOP ONLINE AT WWW.TORCHMATESTORE.COM FOR SOFTWARE, CONSUMABLES, PLASMA CUTTERS, PARTS & ACCESSORIES.

TORCHMATE CAD/CAM THE ULTIMATE SHAPE CREATION PROGRAM



The Torchmate CAD/CAM program encompasses two important functions that are essential to CNC success – a design suite for part drawing and a machining suite for an accurate end product. Torchmate CAD/CAM offers versatile drawing features including shape creation, import of other file types such as DXF, tracing of scanned images, and text design. The user friendly interface allows both new and

experienced users to design any part imaginable from simple tabs and brackets to intricate signs and art scenes. Once a part is designed accurately the machining side of the software takes over to ensure a precision finished part. A full nesting tool is included to optimize the material used leaving minimal waste. The tool path function compensates for the cut width (kerf) of any tool to ensure that a part is cut as accurately as it was drawn.

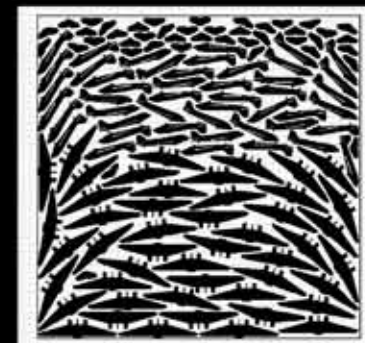
The Torchmate CAD/CAM software is the result of decades of development and is backed by the full Torchmate technical support team. From training manuals, how-to-videos, webinars, a live support line where one-on-one training can be accomplished through screen sharing. The Torchmate CAD/CAM software is fully supported by Torchmate. No matter the user's skill level Torchmate CAD/CAM is an accessible, easy-to-use software package that can easily produce any part imaginable.

TORCHMATE CAD/CAM LITE AVAILABLE ONLY FOR GROWTH SERIES CNC SYSTEMS

Torchmate CAD/CAM Lite has all of the features, support, and ease of use that the full version of Torchmate CAD/CAM has with nesting and image scanning disabled. This allows Torchmate CAD/CAM Lite to be the affordable entry level design and machining software. At anytime the Torchmate CAD/CAM Lite may be upgraded to the full version for the difference in cost of the two versions.

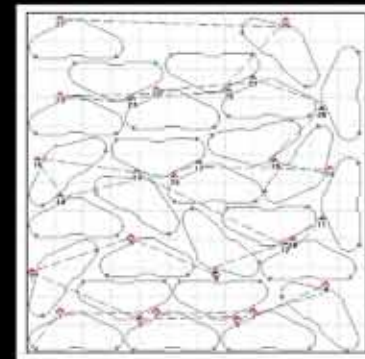
TORCHMATE CAD/CAM FEATURES: CAD(COMPUTER AIDED DESIGN)

- Basic shape creation
- Guide lines
- Duplicate and array shapes in patterns
- Free form drawing with pen tool
- Point-to-point drawing
- Measure and label drawings
- Utilize Cartesian and polar coordinates
- Automatic rounding and fillet of parts
- Import DXF files from other software
- Import JPG, BMP, GIF, PNG, TIFF images
- Import AI, SVG, and other vector formats
- Import 32 different file formats
- Acquire files directly from most scanners
- Export DXF files
- Export drawings as image files
- Text editing and integration
- Utilize any True Type or Open Type font
- Utilize any Adobe® Type 1 font - **Professional Text Compose Module**
- Utilize any Corel® WFN font - **Professional Text Compose Module**
- Curve text around any shape or radius - **Professional Text Compose Module**
- Automatic scanning and tracing of images - **Not included in Torchmate CAD/CAM Lite**
- Automatic nesting of parts - **Not included in Torchmate CAD/CAM Lite**



CAM(COMPUTER AIDED MACHINING)

- User customized tool library
- Create tool paths for all shapes and tools
- Automatic kerf compensation
- Fill and sweep tool paths for marking and routing applications
- Support for 2 ½ dimension routing
- Drill centering support
- Automatic cut sequencing
- Automatic lead in / lead out creation
- User control of cut sequence
- Tool path conversion to G-code
- Support for multiple sheet projects



SOFTWARE

VISIT WWW.TORCHMATE.COM FOR DETAILED INFORMATION AND THE LATEST IN FEATURED SOFTWARE, UPGRADES & DISCOUNTS.

TORCHMATE CAD/CAM PROFESSIONAL TEXT COMPOSE MODULE, CLIP ART, AND FONTS PACKAGE

This add-on module for Torchmate CAD/CAM and CAD/CAM Lite allows for wrapping or arcing of text around an object. This is very beneficial to customers in the sign making industry. This package also includes a variety of over 4,000 clip art images for both metal and woodworking as well as over 1,300 different fonts that are in addition to the fonts included with Torchmate CAD/CAM.



TORCHMATE DRIVER SOFTWARE INCLUDED WITH ALL MACHINES

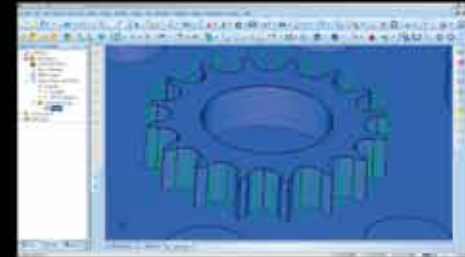
The Torchmate driver software is the essential control interface for your Torchmate CNC machine. The driver software allows you to move your table, position your torch and operates all Torchmate accessories and tooling. A key feature of our driver software is the ability to utilize industry standard G-code and DXF files to ensure our machines are universally compatible. The driver software can control up to five axis of motion and files with multiple tools. Features include a jump to line and reverse function for selective cutting, pierce counter and tool life management control, real time display feedback to track operation and USB functionality.



BOBCAD-CAM® 3-D DESIGN SOFTWARE & BOBART® ADD-ON

BobCAD-CAM® is fully equipped with easy to use machining wizards that guide you through 2.5 and 3 axis machining features – literally removing the guesswork from CAM programming. With an intuitive software interface that offers customizable tool bars, on-the-fly geometry editing capabilities and so much more, learning to use this system is easy. All tool paths are fully associative meaning that if you make a change to the part, the tool paths are easily updated. This eliminates costly errors and gives you control in your jobs. A full assortment of 3 axis milling tool path features gives you effective cycle time reducing options for even the most complex programming situations. All advanced 3 axis tool path features are fully associative to the part model, making on-the-fly editing easy, keeping jobs updated and helping eliminate costly mistakes.

BobART® add-on software module provides you with the ability to turn your artistic imagination into a manufacturing reality. This is an excellent product for trades such as sign making, custom wood working, jewelry making, CNC routing and more. By opening a jpeg, bitmap or other picture type image you are just a few steps away from engraving, carving or embossing for creating toolpath and g-code for your Torchmate CNC machine.



DESIGN2FAB® SHEET METAL AND HVAC SOFTWARE

For users who need to create HVAC duct fitting layouts, Design2Fab®, a stand-alone software application that may be used in conjunction with Torchmate CAD/CAM is the solution. Whether the application is HVAC duct, mechanical, kitchen, industrial, roofing or other specialty, Design2Fab® is known for its superb versatility. Custom fitting complex layouts may now be created in minutes not hours. In fact, Design2Fab® is so easy-to-use, even a beginner to the trade can make fittings.

The Design2Fab® program allows three dimensional fittings and features to be modeled as a flat pattern for cutting. Cones, square to round, elbows, tees and other fittings are built into a shape library where the particular size of the part can be specified. Utilizing Torchmate CAD/CAM software allows for nesting and full sheet layout of these designed parts streamline HVAC production.

PLASMA CUTTERS

AIR PLASMA CUTTING UNITS



WHAT IS PLASMA?

Plasma is a state of matter that is composed of gas that has a high voltage current run through it. This causes the gas to change into plasma, similar to a lightning bolt. By shaping the plasma, by a swirl of gas, a cutting arc can be formed. This stable arc is hot enough (>45,000° F) to melt through metal and moves fast enough to blow away this molten metal. As a result, plasma can be a controlled cutting process. Consumable nozzles and other parts are used to control the width and power of the arc.

Plasma cutting was first developed in the 1960's as a way to cut non-ferrous metals. Originally the units were large, expensive, required significant maintenance and were costly to operate. As micro processing and computer circuitry developed, the plasma cutting process became affordable to more and more shops. By the 1980's plasma was commercially available to most shops as an easy way to cut metal by hand. Further technological improvements made plasma a refined cutting process that is affordable, reliable, and easy to use.

AIR PLASMA

Low cost air plasma units utilize compressed air in the creation of plasma. These units find wide-spread use in almost any industry. The ability to operate off of only electricity and air means that air plasma units can be used in any shop. Traditional air plasma units are able to cut steel, stainless steel, aluminum, brass, copper, titanium and other conductive metals. Torchmate offers a wide range of air plasma systems for use on your CNC machine.

LINCOLN ELECTRIC:

- Tomahawk 625
- Tomahawk 1000



HYPERTHERM:

- Powermax 45
- Powermax 65
- Powermax 85
- Powermax 105



THERMAL DYNAMICS:

- Cutmaster 52/ A40
- Cutmaster 82/A60
- Cutmaster 102/A80
- Cutmaster 152/A120



PLASMA CUTTERS

HIGH SPEED OXYGEN AND HIGH DEFINITION PLASMA CUTTING UNITS

HIGH SPEED OXYGEN PLASMA

When the demands of a full-time production shop require longer consumable life, more consistent cut quality and thicker plate cutting high speed oxygen plasma systems are the industry standard. Most oxygen plasma units utilize a liquid cooled torch for 100% duty cycle and exceptionally longer consumable life than air plasma. Oxygen plasma cutters feature increased cut capacity for a high demand steel shop. Torchmate features the most advanced high speed oxygen plasma units on the market.

THERMAL DYNAMICS:

- Auto-Cut 100
- Auto-Cut 200
- Auto-Cut 300
- Auto-Cut 100 O₂
- Auto-Cut 200 O₂
- Auto-Cut 300 O₂



HYPERTHERM:

- HySpeed HSD 130
- HySpeed HT2000



HIGH DEFINITION PLASMA

The pinnacle of modern plasma cutting, high definition plasma units offer the closest quality when compared to laser or water jet. Utilizing mixed gases, long life consumables and optional integrated software control high definition is hard to beat. Torchmate is proud to offer both Hypertherm's True Hole™ technology and Thermal Dynamic's Diameter PRO™ technology on our Torchmate X CNC cutting systems.

HYPERTHERM:

- HyPerformance HPR 130XD
- HyPerformance HPR 260XD
- HyPerformance HPR 400XD
- HyPerformance HPR 800XD



THERMAL DYNAMICS:

- Ultra-Cut 100
- Ultra-Cut 200
- Ultra-Cut 300
- Ultra-Cut 400



ACCESSORIES

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ARC VOLTAGE HEIGHT CONTROL

The most important factor in achieving consistent cut quality with plasma is maintaining proper height. Cutting too high or low will result in poor cut finish and inaccurate parts. The distance between the material and cutting tip will change due to warping from heat, if the material was not flat to begin with, or when cutting diamond plate or corrugated material. The best and most reliable method for adjusting height is arc voltage height control. This industrial standard is used by Torchmate and used on all integrated high definition plasma systems. By constantly receiving feedback from the plasma unit proper height can be maintained throughout the entire cut. Other methods of maintaining height such as proximity, digital, or contact sensing are vastly inferior to arc voltage. To achieve the best cut quality insist on arc voltage height control.

Torchmate's Arc Voltage Height Control (AVHC) is a simple, all-in-one unit that can sense plate height, adjust to changing height rapidly, and retract between cuts to avoid torch crashes. Using the industry standard machine torch allows for consistent cuts and easy consumable change. The AVHC unit can communicate to and from most popular mechanized plasma units, utilizing the newest automated features, which save time and money. Our unit pierces higher than the cutting height, thus avoiding blow back from the molten steel. This greatly extends consumable life.

The AVHC eliminates the need for the operator to constantly monitor and adjust the torch while cutting. You can have confidence that your machine will produce high quality parts just as they were designed.

FEATURES

- True arc voltage sensing for accurate adjustment while cutting
- Push button simple to use control and clear backlit display
- Quick response to material changes (30ms response time)
- Pierce height and initial cut height can be set independently (.01" resolution)
- Pierce time controlled within the AVHC (0.1s resolution)
- Automatic retraction of 3" between cuts to avoid tip ups and other collisions that can cause torch damage
- Save profiles for different plasma cutters or materials
- Compatible with 'ok to move' commands
- Two way communication with CNC controller and plasma cutter
- High definition units available



OXY-ACETYLENE / PROPANE / ALTERNATIVE FUEL CUTTING

Need to cut thick steel with minimal bevel? Using an oxy fuel setup on a Torchmate table allows even the thickest plates to be cut with precision greater than plasma. Torchmate offers a comprehensive line of gas cutting systems ready for CNC control.

We proudly offer Harris and Victor product lines featuring the latest torch and tip technology for thick plate cutting. Whether you are using acetylene, propane, propylene, natural gas or other fuels Torchmate has the solution for you.



ACCESSORIES

VISIT WWW.TORCHMATE.COM FOR DETAILED INFORMATION, THE LATEST IN ACCESSORIES, FEATURED PRODUCT VIDEOS & DISCOUNTS.

PLATE MARKING ATTACHMENT

Marking bend lines, part numbers and company logos are just some of the details the Torchmate plate marking attachment can provide. Using a pneumatic pen with a carbide tip, customers are able to permanently write on any material. The plate marker takes your CNC machine to a new dimension. The marker mounts next to your plasma torch and operates through Torchmate's driver software and CAD/CAM package – thus requiring no additional effort. The capabilities of the plate marking attachment are seemingly endless; bent parts can have instructions and guides marked on them; signs can incorporate texture, shading and depth; your products can have a marked logo.



The plate marking attachment is fully adjustable to create the effect you want. Adjust the down pressure and create a deep mark that shows through paint, decrease the pressure and have a light mark that can be buffed out after manufacturing. The frequency of marking can also be adjusted to create quick dotted lines to solid intricate markings. Change the table speed and the results will also be changed. The combination of settings allows for a versatile range of applications.

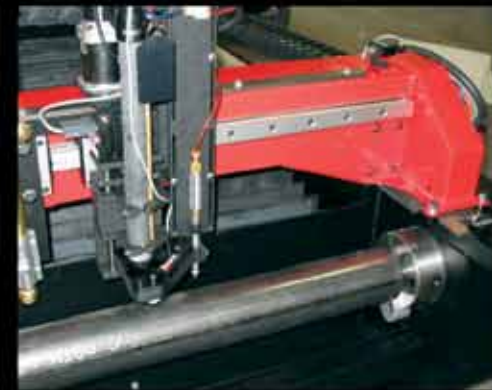
The durable carbide tip can be sharpened as needed to extend the tool life or show off even more intricate detail. The Torchmate plate marking attachment showcases the precise, consistent motion of Torchmate CNC machines and adds value to your work.

TUBE CUTTING ATTACHMENT

If you need to CNC cut round tube, a tube cutting attachment mounted on your Torchmate machine allows you to utilize the table for both plate and round tube shape cutting. Straight cuts, miter cuts, centerline offset cuts, saddle cuts, through cuts and more are possible with the tube cutting attachment (TCA). The TCA mounts on the side or end of a Torchmate X, Torchmate 2 and Torchmate 3 machines. Other Torchmate tables can accept the TCA with customer modification.



The tube is held on one end by a three jaw chuck able to accept pipe and tube from $\frac{3}{4}$ " to 8" diameter. Along the length of the tube, adjustable rollers support the tube. A plasma torch, oxy fuel torch or plate marker can then move the length of the tube while it rotates underneath. Rotation is controlled through the Torchmate driver software and electronics.



ACCESSORIES

SHOP ONLINE AT WWW.TORCHMATESTORE.COM FOR SOFTWARE, CONSUMABLES, PLASMA CUTTERS, PARTS & ACCESSORIES.

PLASMA CUTTING CONSUMABLES

Torchmate is proud to offer a full line of plasma cutting consumables from Lincoln Electric, Thermal Dynamics and Hypertherm. The dedicated Torchmate consumables team is experienced and knowledgeable in all types of cutting. From air plasma through high definition, they can find the right consumables to fit your need. Torchmate offers an online web store (www.torchmatestore.com) with competitive pricing, and free shipping on orders over \$100. Torchmate also offers consumable contracts allowing you to lock-in the price of consumables for an extended period of time which eliminates the need to shop around. Contact the consumables team to learn about all of the ways Torchmate can help your business succeed.



LASER CROSSHAIR ATTACHMENT

The Torchmate laser crosshair attachment projects a target on the material being cut enabling the table operator to quickly reference where the center of the tool is. This attachment is an invaluable time saver for large tables or remote operators to be able to see from afar where the tool is. The laser crosshair attachment is designed to install on a plasma torch and integrates into any Torchmate machine. The attachment is fully controlled through the software and is ideal for quick torch positioning and plate edge locating.



REMOTE PENDANT



Need to jog, zero, or start your machine without being in front of the computer? The remote pendant allows for this and other machine functions of a Torchmate CNC table to be done on a control pad while away from the computer. Our pendant is 100% programmable to your needs and uses a USB cable to connect to the software. When the operator needs to move around and have control of the table, all essential machine functions can be controlled in the palm of their hand. This accessory is ideal for large machines or operators who want flexibility in controlling their Torchmate machine.

AUTOMATED Z AXIS FOR ROUTING OF WOOD, PLASTIC, AND FOAM

The automated z-axis for routing enables your CNC machine go way past the boundaries of two dimensional metal cutting. Your machine will be able to route wood, plastic and foam. Full three dimensional contouring with 7 inches of vertical travel give you the ability to route most any design. The automated z-axis attaches to most Torchmate machines with a few nuts and bolts. Using a three dimensional design software, like BobCAD, or a two and a half dimensional software, like Torchmate



CAD/CAM, anything is possible from signs, molding, detailed flourishes and artwork. The Torchmate driver software fully supports three dimensional simultaneous movement allowing the most intricate patterns to be realized. The automated z-axis has multiple mounting collars to accept most wood routers.

ONSITE CONSULTING

OUR TECHNICIANS TRAVEL ALL OVER THE WORLD FOR ON-SITE INSTALLATION, TRAINING, AND PREVENTATIVE MAINTINENCE

**NEED HELP STREAMLINING PLASMA PRODUCTION?
HAVE A LARGE STAFF IN NEED OF TRAINING?
WANT TO PERFECT CUT QUALITY?**

Our experienced technical support staff is available for on-site consulting to visit your location and train you and your staff on these topics and more. Over the course of two or more days our technicians will evaluate your needs and current set-up to create a custom program to maximize the utility of your Torchmate CNC machine. Training may also be scheduled for half day, full day, or multiple days at the Torchmate facilities in Reno, Nevada, Bogota, Columbia or at your location.

CONTACT OUR SALES DEPARTMENT TODAY TO FIND OUT HOW ONE OF OUR TORCHMATE TECHNICIANS CAN HELP YOU GET THE MOST OUT OF YOUR CNC MACHINE AND/OR ACCESSORY.



SPECIFICATIONS

2X2

GROWTH SERIES

MODEL FEATURES:

- Small foot print • Portability
- Expandable to Growth Series 2x4 or 4x4

MACHINE SIZE:

- 36 3/4" X 36 1/4"

CUTTING AREA¹:

- 2' x 2' (Can be re-indexed to cut materials larger)

TABLE TYPE:

- Portable table top
- Optional water table

STANDARD EQUIPMENT :

- Three motor driven
- USB control box

CONSTRUCTION:

- Five piece fabricated steel construction
- 26 sealed ball bearings for linear motion

ELECTRONICS/MOTION SYSTEM :

- 2.5 amp micro-stepping motor drives
- 269 oz. in. motors

USER CONTROLS:

- PC based driver software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Anti-backlash screw drive

TRAVERSE SPEED:

- Up to 200 ipm

CUT SPEED:

- Up to 200 ipm

MACHINE RESOLUTION:

- .0013" approx.

AVAILABLE PLASMA UNITS:

- Compatible with most air plasma cutters utilizing non-high frequency start

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Lite
- Torchmate CAD/CAM Full

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

2X4

GROWTH SERIES

MODEL FEATURES:

- Small foot print • Portability
- Expandable to Growth Series 4x4

MACHINE SIZE:

- 36 3/4" X 60 1/4"

CUTTING AREA¹:

- 2' x 4' (Can be re-indexed to cut materials larger)

TABLE TYPE:

- Portable table top
- Optional water table

STANDARD EQUIPMENT :

- Three motor driven
- USB control box

CONSTRUCTION:

- Five piece fabricated steel construction
- 26 sealed ball bearings for linear motion

ELECTRONICS/MOTION SYSTEM :

- 2.5 amp micro-stepping motor drives
- 269 oz. in. motor (gantry), 380 oz.in motors (sides)

USER CONTROLS:

- PC based control software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Anti-backlash screw drive

TRAVERSE SPEED:

- Up to 200 ipm

CUT SPEED:

- Up to 200 ipm

MACHINE RESOLUTION:

- .0013" approx.

AVAILABLE PLASMA UNITS:

- Compatible with most air plasma cutters utilizing non-high frequency start

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Lite
- Torchmate CAD/CAM Full

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

4X4

GROWTH SERIES

MODEL FEATURES:

- Small foot print • Integrated cable carrier
- Multiple tool mounting configurations

MACHINE SIZE:

- 60 3/4" X 60 1/4"

CUTTING AREA¹:

- 4' x 4' (Can be re-indexed to cut materials larger)

TABLE TYPE:

- Table top
- Optional water table

STANDARD EQUIPMENT :

- Three motor driven
- USB control box

CONSTRUCTION:

- Five piece fabricated steel construction
- 34 sealed ball bearings for linear motion

ELECTRONICS/MOTION SYSTEM :

- 2.5 amp micro-stepping motor drives
- 380 oz. in. motors

USER CONTROLS:

- PC based control software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Anti-backlash screw drive

TRAVERSE SPEED:

- Up to 500 ipm

CUT SPEED:

- Up to 400 ipm

MACHINE RESOLUTION:

- .0013" approx.

AVAILABLE PLASMA UNITS:

- Compatible with most air plasma cutters utilizing non-high frequency start

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Lite
- Torchmate CAD/CAM Full

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

TM1

DIY WELD KIT

MODEL FEATURES:

- Scalable weld together kit
- Customize to fit any shop

CUTTING AREA¹:

- 4' X 4' up to 6' X 20'

TABLE TYPE:

- DIY Weld together kit with various material support options
- Complete table can be customized

STANDARD EQUIPMENT :

- Two motor driven
- USB control box

CONSTRUCTION:

- Weld together frame and gantry
- Built to the demands of your shop

ELECTRONICS/MOTION SYSTEM :

- 3.5 amp micro-stepping motor drives
- 380 oz. in. motors

USER CONTROLS:

- PC based control software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Rack and pinion drive

- Drive shaft spans width of table

TRAVERSE SPEED:

- Up to 500 ipm

CUT SPEED:

- Up to 400 ipm

MACHINE RESOLUTION:

- .0003" approx.

AVAILABLE PLASMA UNITS:

- Compatible with most air plasma cutters utilizing non-high frequency start

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Full
- Design2Fab®
- BobCAD CAM®

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

TM2 GANTRY/BOLT TOGETHER

MODEL FEATURES:

- Scalable bolt together or gantry kit
- Customize to fit any shop

CUTTING AREA¹:

- 4' X 4' up to 6' X 20'

TABLE TYPE:

- Bolt together
- Gantry kit

STANDARD EQUIPMENT :

- Two motor driven
- USB control box

CONSTRUCTION:

- Extruded aluminum gantry with linear slide
- Weld together or extruded aluminum frame

ELECTRONICS/MOTION SYSTEM :

- 3.5 amp micro-stepping motor drives
- 380 oz. in. motors

USER CONTROLS:

- PC based control software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Rack and pinion drive
- Drive shaft spans width of table

TRAVERSE SPEED:

- Up to 500 ipm

CUT SPEED:

- Up to 400 ipm

MACHINE RESOLUTION:

- .0003" approx.

AVAILABLE PLASMA UNITS:

- Compatible with most air plasma cutters utilizing non-high frequency start

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Full
- Design2Fab®
- BobCAD CAM®

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

TM3 GANTRY/BOLT TOGETHER

MODEL FEATURES:

- Scalable bolt together or gantry kit
- Dropped side rail for forklift loading

CUTTING AREA¹:

- 4' X 4' up to 10' X 40'

TABLE TYPE:

- Bolt together
- Gantry kit

STANDARD EQUIPMENT :

- Three motor driven
- USB control box

CONSTRUCTION:

- Extruded aluminum gantry with linear slide
- Weld together or extruded aluminum frame

ELECTRONICS/MOTION SYSTEM :

- 3.5 amp micro-stepping motor drives
- 380 oz. in. motors

USER CONTROLS:

- PC based control software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Rack and pinion drive • Enclosed gear boxes
- Dual motor driven gantry

TRAVERSE SPEED:

- Up to 700 ipm

CUT SPEED:

- Up to 400 ipm

MACHINE RESOLUTION:

- .0003" approx.

AVAILABLE PLASMA UNITS:

- Compatible with most plasma cutters

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Full
- Design2Fab®
- BobCAD CAM®

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

TMX GANTRY/TURN-KEY

MODEL FEATURES:

- Solid steel gantry and table frame
- Ideal for high definition plasma cutting

CUTTING AREA¹:

- 5' X 10' up to 12' X 60'

TABLE TYPE:

- Turn key water table
- Turn key down draft table

GANTRY KIT

- All steel robotic welded construction (turn key tables)
- Fully built and tested steel gantry

ELECTRONICS/MOTION SYSTEM :

- 3.5 amp micro-stepping motor drives
- 380 oz. in. motors

IN LINE 5:1 GEAR BOXES

- PC based control software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Rack and pinion drive • Enclosed gear boxes
- Dual motor driven gantry

TRAVERSE SPEED:

- Up to 700 ipm

CUT SPEED:

- Up to 400 ipm

MACHINE RESOLUTION:

- .0003" approx.

AVAILABLE PLASMA UNITS:

- Compatible with most plasma cutters
- Compatible with Diameter PRO™ and True Hole™ systems

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Full
- Design2Fab®
- BobCAD CAM®

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

ROUTERMATE VERSITILE PLATFORM

MODEL FEATURES:

- Multi purpose gantry and table frame
- Ideal for routing, milling, drilling, marking, and cutting

CUTTING AREA¹:

- 4' X 4' up to 7' X 20'

TABLE TYPE:

- Assembled gantry with bolt together frame.

CONSTRUCTION:

- Adjustable support bed for a range of products
- Industrial z-axis for heavy duty applications

ELECTRONICS/MOTION SYSTEM :

- 3.5 amp micro-stepping motor drives
- 380 oz. in. motors

IN LINE 10:1 GEAR BOXES

- PC based control software with USB interface

INPUT POWER:

- 15 amp / 110 volt for controls • 220 volt available

DRIVE SYSTEM:

- Rack and pinion drive • Enclosed gear boxes
- Dual motor driven gantry

TRAVERSE SPEED:

- Up to 500 ipm

CUT SPEED:

- Up to 400 ipm

MACHINE RESOLUTION:

- .0003" approx.

AVAILABLE TOOLS:

- Compatible with most plasma cutters
- Heavy duty drill • High speed spindle

STANDARD SOFTWARE:

- Torchmate Driver Software (accepts any .dxf or G-code)

OPTIONAL SOFTWARE:

- Torchmate CAD/CAM Full
- Design2Fab®
- BobCAD CAM®

COMPUTER REQUIREMENTS:

- Windows XP/Vista/7 • 1 GHz processor
- 1 GB RAM • 30 GB hard drive

WARRANTY:

- 1 year warranty on electronics, parts, and software
- Lifetime unlimited free technical support

¹Some tools and accessories may reduce effective cutting area.

TORCHMATE RACING

FOLLOW US AT WWW.TORCHMATERACING.COM FOR THE LATEST NEWS, DRIVER & RACE UPDATES.



BOWER MOTORSPORTS MEDIA

TORCHMATE: OUR HISTORY.

THE YEAR WAS 1979

After having spent his childhood working with metal and hot rods, William (Bill) Kunz Sr. began selling his first shape-cutting machine. He called it the "Torchmate."

Bill had read about pantograph flame cutting machines in an automotive magazine. He set out on a then-improbable path of bringing this technology to hobbyists or small shop owners just like him. His fundamental idea? While this technology cost \$1,400 (a big investment 30 years ago), Bill developed a way to lower the purchase price down to just \$400 thanks to the first Torchmate Pantograph Machine Kits.

Since then, our company's objective has remained steadfast – that technology should not be limited only to the metalworking elite.

Torchmate sold thousands of pantograph machines over the next 18 years. Not content to rest on his laurels, Bill launched Torchmate's line of CNC (Computer Numerically Controlled) cutting machines in the late 1990s. What began as a simple pantograph machine that used a magnetic guide evolved into a fully automated, two-axis cutting CNC table based around an exacting plasma cutter. Following the same path that founded the company, while plasma

technology had been expensive and out of reach for most shops, Torchmate introduced major breakthroughs allowing more affordable cutters to be accessible via the economical tables.

In early 2001 and with the help of Kunz's son Bill Jr. the company unveiled the Torchmate 2, which used an extruded aluminum gantry to cut customer fabrication time from 40 hours down to just 16. By later adding a third axis, Torchmate expanded the tool's functionality so it could cut wood, plastic, foam and other materials via both a router and drill. Then the Torchmate 3 offered a full aluminum extrusion frame that cut assembly time down to less than a day. New products have been continuously added to Torchmate's line, including the larger Torchmate X and, more recently, the revolutionary new Torchmate Growth Series™.

In 2011, the Kunz' family vision was ultimately realized when Lincoln Electric, a 115-year old company based in Cleveland, Ohio, acquired Torchmate. While both companies share a vision to bring world class metal working equipment to a world-wide audience, Torchmate will continue to manufacture, sell and operated its impressive customer service operation in Reno, Nevada.

TORCHMATE MILESTONES

1978: Founder William (Bill) Kunz Sr. first reads about pantograph machines

1979: Kunz launches company with low cost Torchmate Pantograph Kits

1997: Torchmate introduces their first CNC cutting machine

1997: Son Bill Kunz Jr. joins Torchmate to help run company

2001: Torchmate introduces Torchmate 2 gantry system

2010: Torchmate launches revolutionary Torchmate 2x2 system

2011: Torchmate purchased in acquisition with Lincoln Electric

TORCHMATE
A Lincoln Electric Company

Reno, NV
If Found Please Call: 1-866-571-1066 x4

FREE LIFETIME TECHNICAL SUPPORT.

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Hours of Operation: 7:30am - 4:00pm Pacific Standard Time

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