

TORCHMATE 2

CNC CUTTING SYSTEMS®

BOLT-TOGETHER

Available in sizes from 4' x 4' to 6' x 40'

The Torchmate Two is our mid-line machine. It features a heavy-duty extruded aluminum frame and gantry. The X axis (long axis) is guided by precision industrial bearings riding on precision ground steel rails.

The Y axis (short axis) on the Torchmate Two is constructed exactly the same as it is on the Torchmate Three.

The real difference between the Two and Three lies in the table design and drivetrain. The Torchmate Two supports the material between the x axis rails, it is best loaded by hand or overhead crane rather than forklift. If you don't have a forklift, going with a Torchmate two can save money.



Since the X axis rails are level with each other, we are able to use a less complicated drivetrain. Its X axis uses one motor and driveshaft. This permits us to propel both sides equally, thus eliminating backlash.

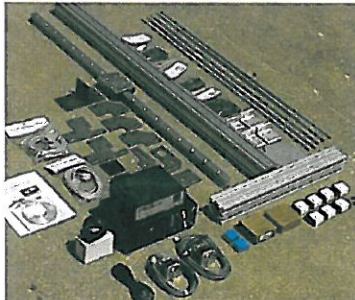
Deciding between the Torchmate Two or Three really comes down to preference. The same exact part will fall out of both machines. Choose the model that best suits your shop setup.

All Torchmate Two systems include necessary electronics, motors, cables, and drive software to run your machine. Bolt together systems also include TM CAD, interface, motor cables, slat support brackets, upgraded gear rack, and torch holder - which are optional in the kits.

TORCHMATE TWO KIT

Available in sizes from 4' x 4' to 6' x 40'

Exactly the same performance of the Torchmate Two bolt-together. With the kit option you will fabricate the frame and rail system from steel tubing and bar stock you purchase locally. Detailed instructions are provided. Construction time averages sixteen hours. This is a simpler project than the average fabricator tackles on a daily basis - it is mostly a bunch of 90 degree welds.



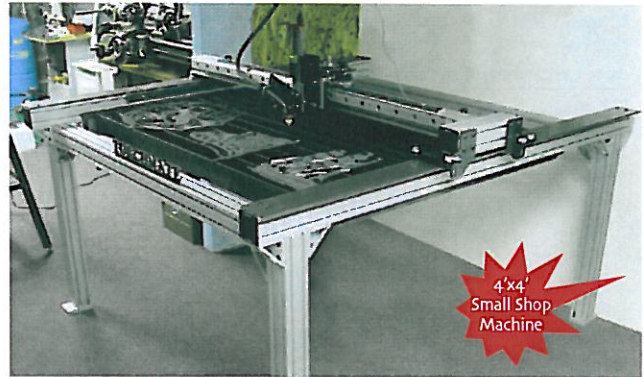
Kit includes the full gantry except for the driveshaft, which you fabricate from 3/4" cold roll round bar.

The Torchmate Two kit allows you customize the machine however you like. Visit our website to view photos from many of our customers.

WWW.TORCHMATE.COM

Some choose to suspend cables from an overhead support, while others choose our articulated cable carrier systems. These are optional on all Torchmate systems.

The 135 oz. In. motors, coupled with a 3.4:1 timing pulley/belt reduction provide sufficient power to carry a person of average weight up and down



4'x4'
Small Shop
Machine

the rails. Torchmate 2 gantry kits can be supplied with capacities up to 6' x 40'. Call our sales staff to discuss your needs.

SMALL SHOP MACHINE

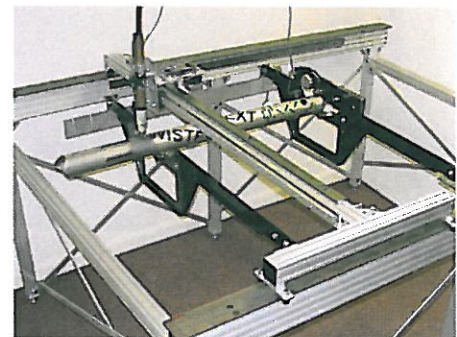
The Torchmate Two Small Shop Machine is our smallest, most economical, complete system. There is no fabrication required so you can be up and running in a couple of hours.

It provides a full 4' x 4' cutting area in a compact unit with only a 5' x 6' footprint. It is perfect for the shop with limited floor space, or for **school industrial arts classes**. Longer pieces can be cut with indexing.

It uses a precision linear slide and roller cassette on the Y axis, and hardened needle bearing cam followers and ground steel rails on the X axis. The machine is driven on both sides via a driveshaft. 135 oz. in. motors use a 3.4 timing pulley reduction for an effective 460 oz. in. of torque on each axis.

A manual torch holder (pictured), or a vertical machine torch holder can be used. If desired, the unit can be fitted with our arc voltage automatic torch height control as well.

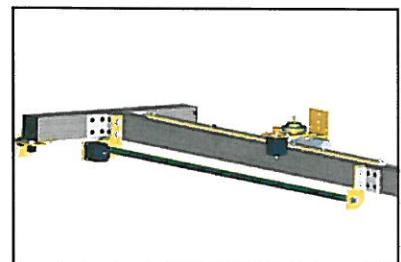
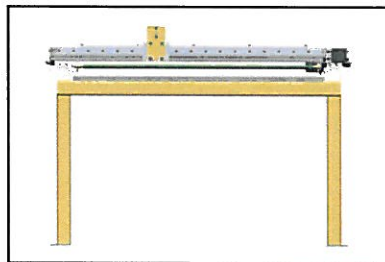
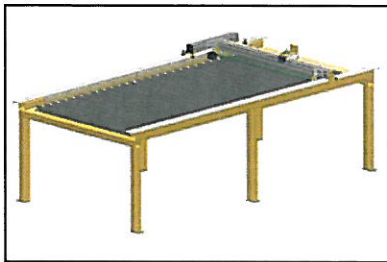
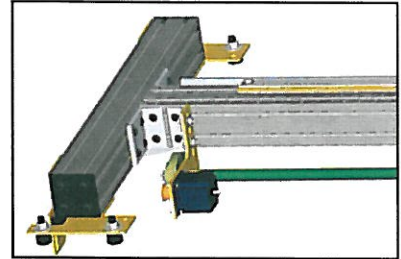
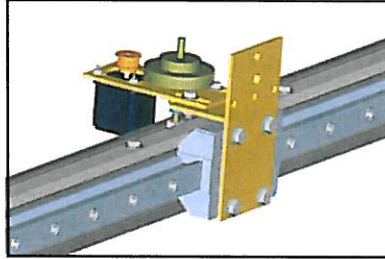
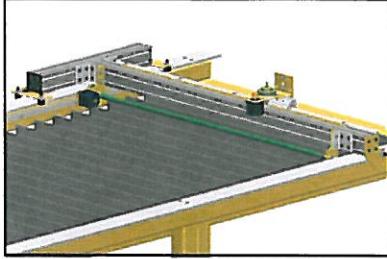
This machine comes complete, as pictured, except for individually replaceable material support slats that can be purchased locally from a steel supply house. Assembly time is approximately two hours. Torches sold separately.



SALES@TORCHMATE.COM

TORCHMATE²

CNC CUTTING SYSTEMS®

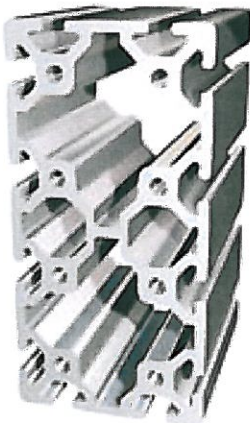
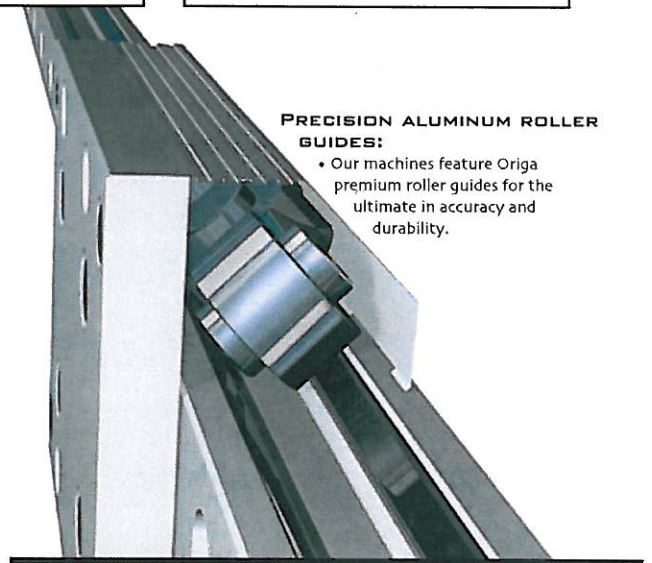


PRECISION GROUND GANTRY GUIDE RAILS:

- Ground from 1/4" oversized stock to exact specifications
- .001 tolerances
- 63 Micro finish
- Custom made in the USA
- Allows your Torchmate CNC machine to maintain high levels of accuracy and repeatability

PRECISION ALUMINUM ROLLER GUIDES:

- Our machines feature Origa premium roller guides for the ultimate in accuracy and durability.



OUR BOLT TOGETHER KITS FEATURE EXTRUDED ALUMINUM COMPONENTS.

Extrusion specs:

- Yield strength 35,000 lbs./sq. in.
- Tensile strength 38,000 lbs./sq. in.
- Elongation minimum 10%
- Elasticity minimum 8%
- Elasticity approximately 10,200 k lbs./sq. in.
- Extrusion conforms for DIN 17 615 specifications
- Flatness .004" per inch of width
- Straightness 0.0125 per foot of length, not to exceed .120 inches over 20 feet of length
- Rockwell hardness approximately E-88

TORCHMATE TWO SPECIFICATIONS:

Cutting capacity	4' x 4' to 6' x 20'
Construction	Reinforced extruded aluminum
Power (X axis)	Single 135 oz. in. motor
Power (Y axis)	Single 135 oz. in. motor
Electronics	2 amp. half-stepping
Machine accuracy	Approximately .0015"
Speed range	Approximately 3 – 300 IPM
Units of measure	Inch or metric
Y axis	Industrial linear motion components
X axis	Hardened needle bearing cam followers riding on ground steel rails
Drive	Rack & pinion on both axes
Legs	Industrial leveling screws (4x8 & up)
Weight	Approximately 350 lbs.
Rail height	36"
Footprint	80" x 132" (4' x 8' capacity)

TORCHMATE

CNC CUTTING SYSTEMS®

OPTIONS AND ACCESSORIES

Arc Voltage Height Control

Our new Arc Voltage Height Control (AVHC) maintains the proper torch tip to work distance by monitoring arc voltage, which changes with the distance from the work.

Tip-to-work interval for monitoring is adjustable. The unit also raises the torch approximately 3" while moving between cuts to avoid collision with tip-ups (fully cut parts that have not fallen out of the plate, but have tipped up from the material).



The third important feature of our height control is the ability to pierce the material at a greater height. This greatly extends the life of your consumables and decreases operating costs.

Some manufacturers are vague about what their height control is. Some are a lot less 'automatic' than others. Insist on seeing clear, understandable photos of exactly what you are getting. The less they tell you about it, the less you are probably getting.

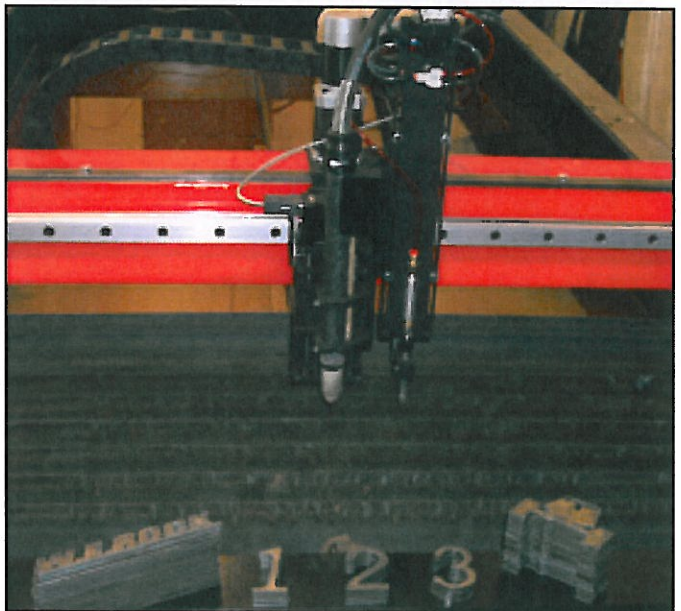
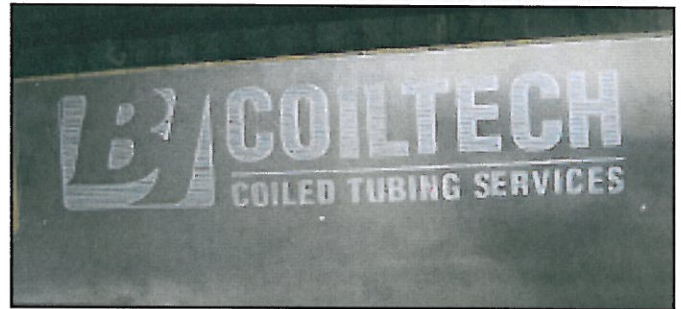
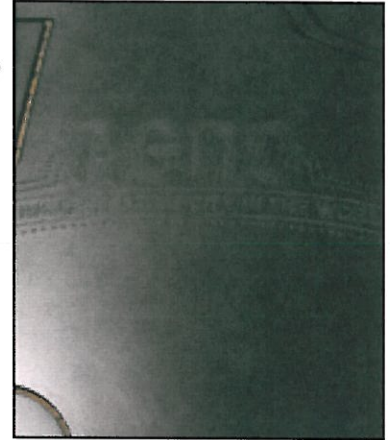


Vinyl Cutting Attachment

Torchmate machines can be used to cut vinyl stickers and signs. Using a special spring loaded vinyl knife a Torchmate machine can cut images, logos, or anything you can draw without cutting through the backing of the vinyl. Click [here](#) for a demo.

Plate Marking Attachment

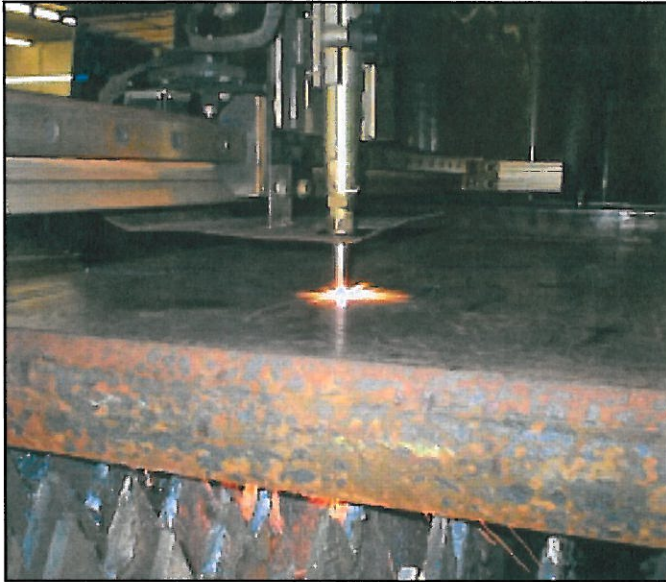
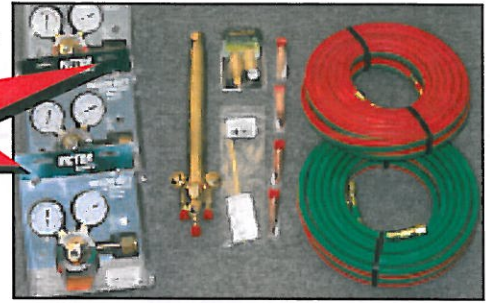
Do you produce a large amount of intricate parts that need labeling? Need to make sure the guy 'in the field' knows how to assemble them? If so, the plate marking attachment can be a lifesaver. This pneumatic tool allows you to mark part numbers, serial numbers, arrows, etc on to your parts before you cut them. Click [here](#) for a video of the plate marker.



Oxy-Acetylene/Propane Cutting Outfits

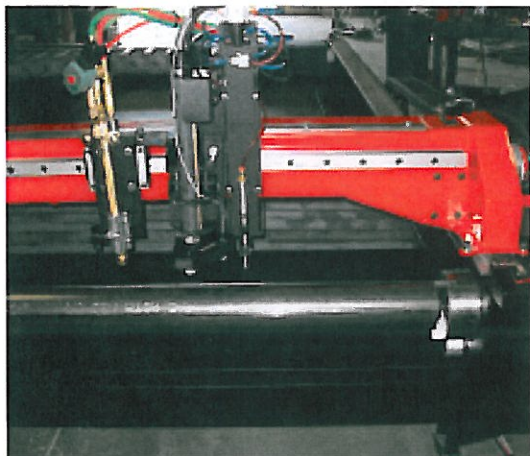
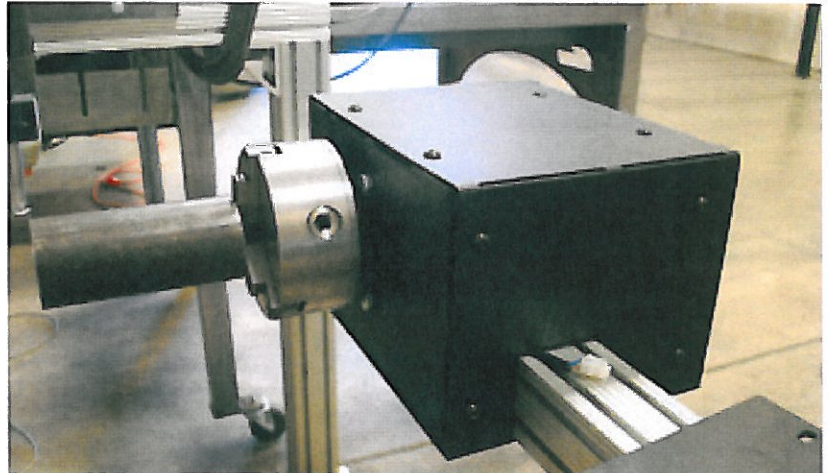
Need to cut thick steel without any bevel. Using an oxy fuel setup on a Torchmate table allows even the thickest plates to be cut with the precision of CNC. Torchmate offers an easy to use automated timing system to preheat, pierce, and cut every shape possible.

Victor or Harris three hose machine torches available. Includes machine torch with two tips, three hoses, two oxygen regulators, and one acetylene regulator.



Tube Cutting Attachment

The Torchmate tube cutting attachment enables you to perform complex operations on round tube ranging from 1/2" to 8" in diameter. You can perform saddle cuts in the sides of tubing, fish mouth cuts on the ends, slots, etc. The tube cutter utilizes an adjustable chuck to securely grip the tube. Available for all Torchmate CNC tables. The tube cutting attachment can be used in either the X or Y axis and can be used with plasma, oxy cutting, or the plate marker. [Click here](#) for a video of the Torchmate tube cutting attachment in action!

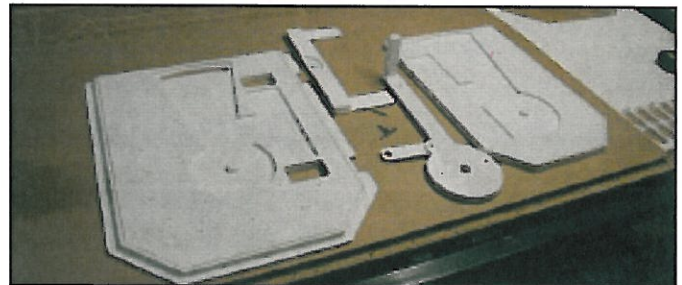
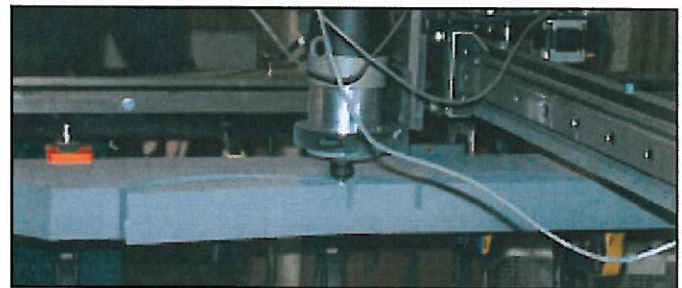


Automated Z Axis

Our optional automated Z axis upgrade includes additional Z axis circuitry, a physical third axis and Bob CAD 3-D software, permitting sign making, raised 3-D images, etc., with your router.

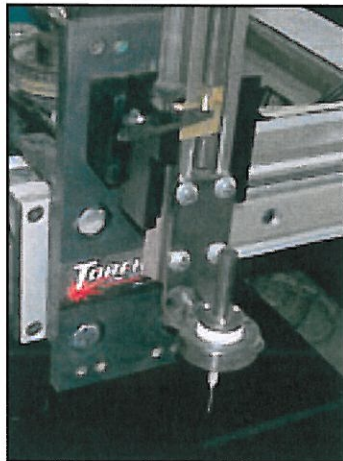
Many routers vary in diameter and shape - we stock a 3.5", and 2.75" shaft collar and mount which fits most 2.25hp routers.

Common applications for the Automated Z Axis include: routing, drilling, engraving, spray applications, and probe sensing for prototyping. For heavy duty routing specific applications a variable speed spindle is available.



Torchmate Probe Sensor Attachment

Available for use on any Torchmate Two or Three system, our Probe Sensor gives your machine full 3D prototyping capability. Put any sample shape or piece on your table, set the distance between passes and probe offset and walk away. Your system will recreate just about any part and the code to cut as many duplicates of it as you need. It is especially helpful when trying to recreate a complicated 3-D shape. Click [here](#) to see the probe sensor in action!



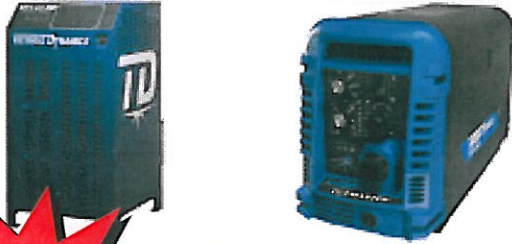
Cable Carrier Kits

Our cable carrier kits securely and safely route all cables. Constructed of tough, weather and grit resistant polymers, they combine great flexibility when curved in one direction, and rigidity against being curved in the other. The links can be separated at any point in the chain, making exact sizing easy. Cable carrier with separate channels is available to help you isolate your plasma torch cable from your electronics cables. Cable carriers come with lengths for both X and Y axes.



Plasma Cutters

We carry a wide range of competitively priced Thermal Dynamics and Hypertherm plasma cutters. Ask your salesperson for pricing.



Plasma Consumables

We have the best pricing on tips, electrodes, shield cups, start cartridges and more. Go to www.TorchmateStore.com for ordering information. If you don't see what you need, give us a call - we carry it all!

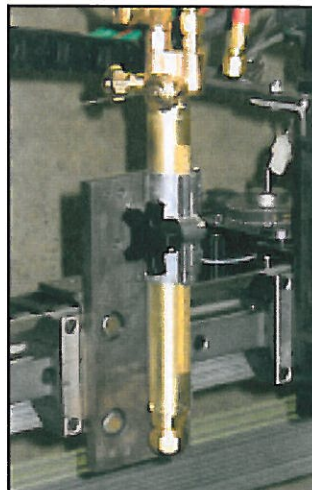
Remote Pendant

Need to jog, zero, or start your machine without being in front of the computer? The remote pendant allows this and other basic machine functions of a Torchmate CNC table to be done on a control pad while away from the computer. Pendant uses a USB port to connect to the software.



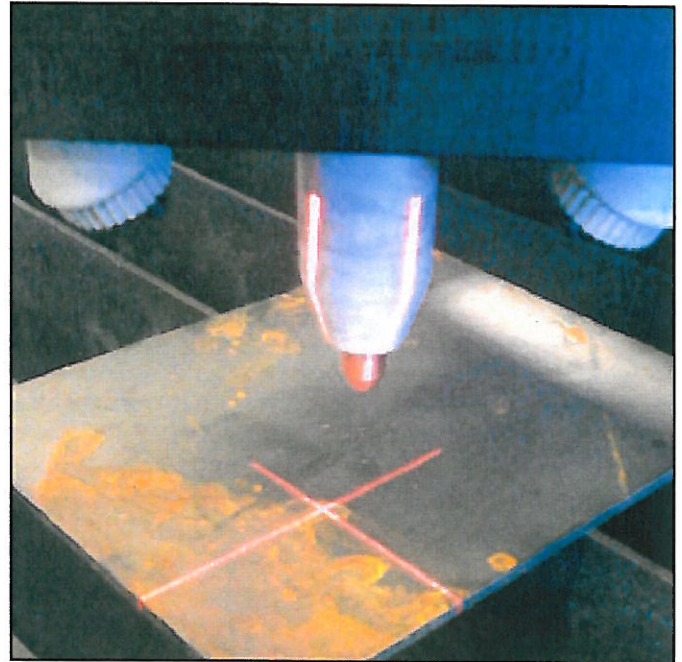
Hand and Machine Torch Holders

For our customers not needing arc voltage height control we offer manual torch holders for both machine and hand torches. An affordable way to control cut height leading to better cut quality.



Laser Crosshairs

A simple attachment that allows the center of a torch to be located on plate. This allows quick setup before cutting and the security of knowing where your torch is without having to place the tip on the material.



Precision Ground Rails

Standard on our bolt together tables and offered as an option for our kit customers. A cnc cutting machine can only be as accurate as the rails which support and guide it. Like manufacturers of commercial machines costing \$100,000 and up we use precision ground steel rails. Many inexpensive machines on the market often use low cost construction grade materials as guide surfaces, like steel tubing or aluminum extrusions. More precise guide surfaces are required when cutting to exacting dimensions, or when producing large shapes with sides that must mate with each other precisely for their whole length. Ground steel rails are a must when absolute precision is required. We contracted with one of the world's best manufacturers of machine tool ways and rails to produce our precision ground X axis rails. They start out oversized by 1/8" in both dimensions. They are then Blanchard ground to within .002" or less of absolute straightness in both dimensions.

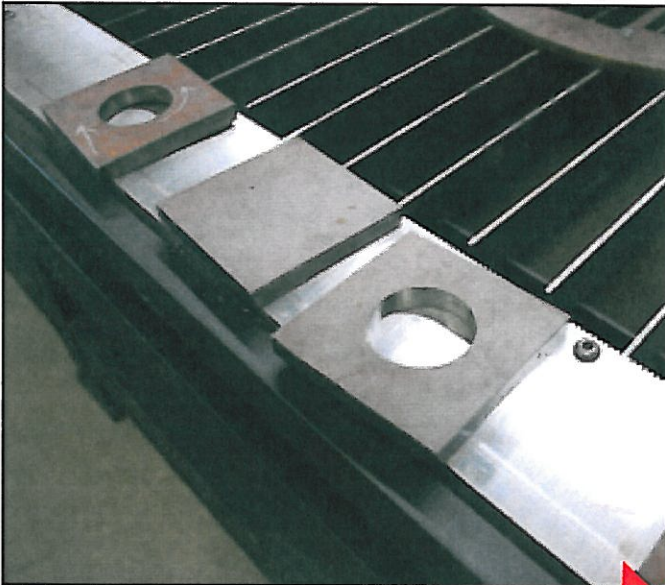
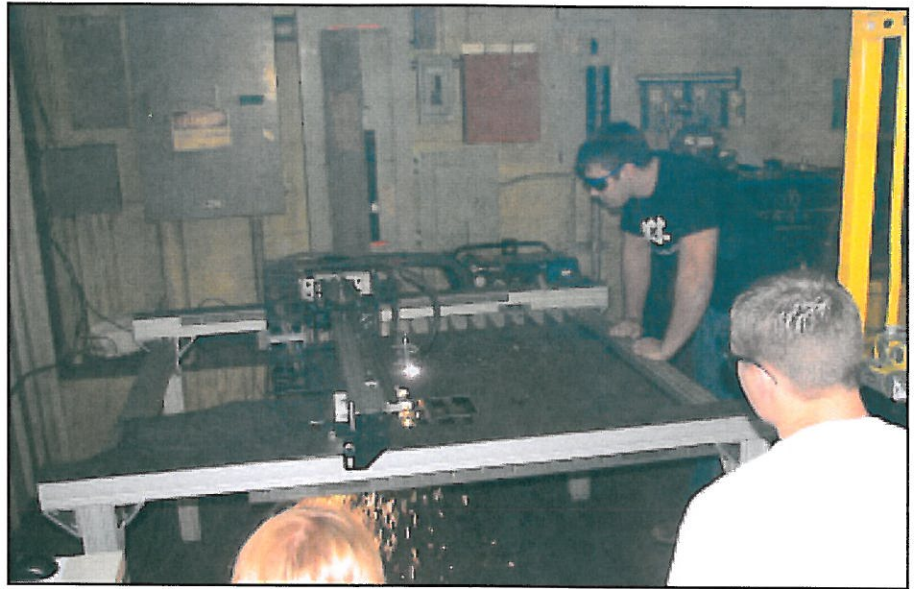


On site consulting:

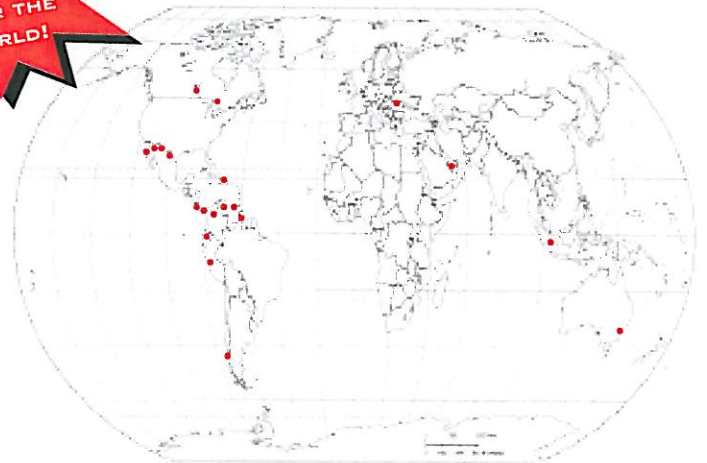
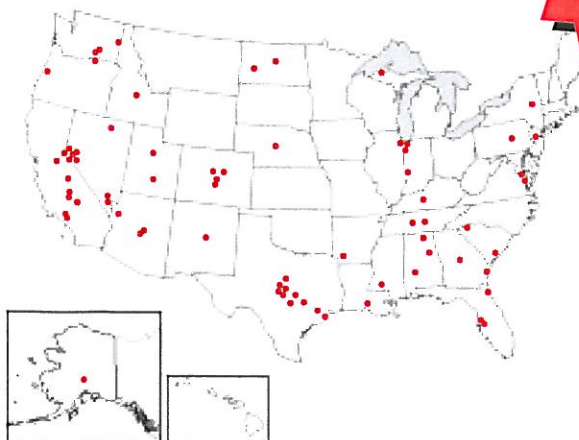
Need help streamlining plasma production? Have a large staff in need of training? Want to perfect cut quality? Our experienced technical support staff is available to visit your location and train you and your staff on these topics and more. Over the course of two or more days our technicians will evaluate your needs and current setup 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 facility in Reno, Nevada.

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.



OUR
TECHNICIANS
TRAVEL ALL
OVER THE
WORLD!





3530 Starnes Drive Paducah, KY 42003

5/4/2012

Quote #
7877

QUOTE

Name / Address Linden High School Chris Lemos 18527 E. Front St. Linden, CA 95236	Ship To Linden High School Chris Lemos 18527 E. Front St. Linden, CA 95236
------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Phone #	Fax #	E-mail	Customer Phone	Rep
(270) 442-0560	(270) 442-1722	cindy@dynatorch.com	209-481-0919	Greg

Qty	Item	Description	Unit Price	Total
1	5' DD DD Gantry - XLR8	5' DD DD Gantry w/XLR8 Drive System which includes: CNC Servo Control Enclosure All Cables 5:1 Gearboxes 200 Watt. Servo Motor 400 Watt. Servo Motors Gold Slide Assembly W/Clips and Collision Detector Torch Holder 1 3/8" USB Serial Adapters	20,995.00	20,995.00
1	5 x 10 Smoke & Dust Collector	5x10 Smoke and Dust Collector	3,795.00	3,795.00
1	Oxy-fuel Kit Acetylene 1 3/8	Oxy-fuel Kit - Acetylene 1 3/8	998.00	998.00
1	Thermal Dynamics A120 w/25'l...	Thermal Dynamics A120 w/25' Leads	3,859.85	3,859.85
1	EZ-CAD Software	EZ-CAD Software	279.00	279.00
1	Plasma Mate	Plasma Mate Software	100.00	100.00
1	Crating Small	Gantry Only	250.00	250.00
1	Shipping	To be determined	0.00	0.00

Terms of Sale
All small items and parts must be paid for in full before shipment. Sale will be initiated and a production allotment assigned after the receipt of an initial deposit. The deposit will consist of 10 percent of the total sale price of all items purchased. Dynatorch will then project, based on its best estimate, a production completion time. The balance of the full purchase price will be due prior to shipping or pickup.

Customers financing through external capital providers are subject to the same terms. Arrangements by those capital providers for inspections will be made prior to shipping or delivery. Inspections will be made at our factory. Dynatorch will be advised by the capital provider at least one week prior to shipping or pickup as to inspection requirements and expected administrative details.

Subtotal
Sales Tax (0.0%)
Total
Component finishing (painting, etc.) is optional
www.dynatorch.com



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(270) 442-0560	(270) 442-1722	cindy@dynatorch.com	209-481-0919	Greg

Qty	Item	Description	Unit Price	Total
		WARRANTY STATEMENT Dynatorch warrants its products for one year from date of purchase and covers both labor and materials. Warranty is VOID if products are abused in any manner (normal wear and tear excepted), if external equipment, including plasma generators, is defective or is improperly connected to Dynatorch products. Additionally, improper or defective electrical grounds will void the warranty. Customer alteration of Dynatorch products without the written consent of the Dynatorch Corporation will void all warranties.		

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Subtotal \$30,276.85

Sales Tax (0.0%) \$0.00

Total \$30,276.85

Component finishing (painting, etc.) is optional

www.dynatorch.com

Torchmate, Inc.
 280 S. Rock Blvd., Suite 150
 Reno, NV 89502



Quote

Date	Quote #
5/4/2012	183727

Name / Address
Linden High School Chris Lemos 18527 East Front St. Linden, CA 95236

Ship To

P.O. No.	Terms	Rep
	Pre-Payment	RS

Item	Description	Qty	Cost	Total
02-0002-022-Pa...	5'x10' Torchmate 2 Bolt Together Machine Package Includes the following: - Torchmate CAD Module with the following features and abilities: Import shapes or draw them in Torchmate CAD Scan & convert drawn shapes for cutting Scale shapes to any desired size Duplicate shapes in any number & pattern Automatic nesting, including rotation & flipping Automatic insertion of lead-ins and lead-outs Automatic kerf compensation Automatic control of torch travel direction Control of cut order (sequence) Export finished shape patterns as dxf files - Torchmate Machine Interface for Plasma - Motor Cables - Slat Support Brackets - Upgraded Gear Rack - Precision Ground Rails - Arc Voltage Torch Height Control - 50' - Heavy Duty Cable Carrier - 5'x10'	1	14,455.95	14,455.95
05-1650-001-D...	Hypertherm Powermax 1650 Plasma Cutter w/ 25' Duramax Machine Torch and CNC Interface Cable	1	5,243.83	5,243.83
03-0002-010	110 Volt, 50' Harris Oxy-Acetylene Package (*Universal Interface/Relay needed to operate*) Includes: -Machine Torch Holder -Oxy-Acetylene Cutting Outfit with 3 50' Hoses -110 Volt Solenoid Valve and adaptors -Extra Cassette with Mounting Plate	1	2,216.50	2,216.50
03-0007-001	Torchmate Universal Interface for Oxy Fuel, Plate Marker, or Router	1	324.50	324.50

THANK YOU FOR CHOOSING TORCHMATE!	Total
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Payment accepted via Check, Money Order, Wire Transfer, VISA/Mastercard. Quote valid for 30 days

Phone #	Fax #	E-mail
866-571-1066	775-673-2206	Sales@Torchmate.com

Torchmate, Inc.
 280 S. Rock Blvd., Suite 150
 Reno, NV 89502



Quote

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Ship To

P.O. No.	Terms	Rep
	Pre-Payment	RS

Item	Description	Qty	Cost	Total
07-0000-001	Shipping, Handling and Packaging Charges within the Continental United States		675.00	675.00
07-0001-0012	**Free and unlimited phone and e-mail technical support at no additional charge**			0.00
50-0002-002	..Additional Options for Torchmate 2: PLASMA OPTIONS Laser Crosshairs with 25' Cable Extension - Starting at \$203.50 Tube Cutting Attachment - Starting at \$2,639.95 Torchmate Plate Marker - \$2,639.45 ROUTING OPTIONS Routing Package (Z-Axis) - \$1,952.45 Rhinoceros 3D Software - \$984.50 RhinoCAM 1.0 3D Tool-pathing Software - \$1,100.00 Torchmate Probe Sensor (includes: Rhinoceros/RhinoCAM) - \$2,909.50 ACCESSORIES Remote Pendant - \$434.50 Dell Desktop Computer - \$1,225.00 or Dell Laptop Computer - \$1045.00 - Preconfigured and Tested with Torchmate Software 1 Year Spare Parts - \$654.00 Computer Cabinets Intermediate - \$654.50 - Pro Text Compose Module with Bonus: Clipart, Fonts & Text CD - \$544.50 - BobCAD DXF Clip Art package with over 6000 DXF Files - \$250.00 Design2Fab HVAC Software - \$2,359.50 Initial Consumables Packages - Starting at \$250		0.00	0.00

THANK YOU FOR CHOOSING TORCHMATE!	Total	\$22,915.78
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Payment accepted via Check, Money Order, Wire Transfer, VISA/Mastercard. Quote valid for 30 days

Phone #	Fax #	E-mail
866-571-1066	775-673-2206	Sales@Torchmate.com