



Growth Series™ 2x2™ CNC Prototyping System

Every Torchmate 2x2™ CNC Prototyping System is designed as a multi-use platform to which you may mount secondary tooling for which you would like robotic control and repeatability. The driver software and CAD/CAM Lite is included with every system, into which you will import your file to be cut. A generic mounting plate is also included to accept your chosen tool holder, be it for plasma cutting, routing, drilling, engraving or milling.

Growth Series™ 2x2™ machine owners can upgrade their machines to the Growth Series™ 2x4™ or the Growth Series™ 4x4™ at an affordable price while costing no more than purchasing the 2x4™ system or 4x4™ system from the start. The upgrade options allow Torchmate customers to invest in a Torchmate CNC machine with confidence, knowing their purchase is flexible enough to be converted into a larger sized CNC machine effectively and affordably.

Online ordering available at <http://www.torchmatestore.com/category-s/72.htm>

Call for pricing.

Standard Features

- Portable tabletop design
- Small foot print (38 5/8" x 38 7/8")
- Generic mounting plate to accept your chosen tool holder
- Accepts manual or machine plasma torch
- Relay to turn on/off plasma torch or other closed circuit tool

Machine Size

- 38 5/8" x 38 7/8" footprint

Table Type

- Portable table top

Standard Equipment

- 26 sealed ball bearings for linear motion
- Electronics/Motion System
- 2 amp micro-stepping stepper motors

- Two x-axis drives and motors and one y-axis drive and motor
- 269 oz./in. motors

User Controls

- PC based control software with USB interface

Weight

- Approximately 100 lbs.

Input Power

- 15 amp/ 110 volt for controls
- 220 volt models available for international customers

Cutting Area

- 2'x2'
- Machine can be re-indexed to cut materials larger than 2'x2'

Drive System

- Anti-backlash screw drive

Traverse Speed

- Up to 150 ipm (*software upgrade available*)

Cut Speed

- Up to 150 ipm (*Tool Dependent*)

Machine Resolution

- Approximately .0006"

Available Plasma Units - Compatible with most plasma cutters

Lincoln Electric

- Tomahawk® 375
- Tomahawk® 625

Thermal Dynamics

- Auto Cut Series
- Ultra Cut Series
- Manual Systems
- Cutmaster A Series

Hypertherm

- Powermax Series

Standard Software

- Torchmate Driver Software
- Accepts any .dxf or G-code

Available Software

Torchmate CAD/CAM Lite

- The Torchmate CAD/CAM program was developed specifically to create shapes for cutting.

Torchmate CAD/CAM

- Everything in CAD/CAM Lite plus nesting, scanning and hogging. It contains every feature needed, including dxf importation, automatic kerf compensation, automatic lead-ins and lead-outs, and much more.

BobCAD-CAM

- In addition to being a full-blown computer assisted design program, BobCAD renders 2D images into three dimensional shapes. It then generates G-code to create the 3D pieces with torchmate's automated z-axis in conjunction with a router, roto-ZIP tool, engraver, etc.

Rhino 3D

- Create digital 3D models of your projects before you start the actual fabrication process. All parts fit together just as they would in a physical model. It is possible to rotate the model, zoom in to see the finest detail, and view its components model from the real thing.

RhinoCAM

- RhinoCAM is a general purpose machining program for the general machinist. RhinoCAM includes 2 ½ axis, 3 axis, 4 axis and 5 axis operations. This powerful package is ideal for mold, die and tooling, wood working rapid prototyping and general machining markets and generate G-code to be directly sent to the Torchmate machines. This product boasts of powerful toolpath generation strategies coupled with tools for efficiently controlling the cutting tool for detailed machining capabilities, while not sacrificing ease of use. It has all the basic functionality as well as additional features suitable for demanding users with sophisticated manufacturing requirements.

Computer Requirements

- Windows XP/Vista/'07

- 1 GB processor
- 1 GB ram
- 30 GB hard drive

Warranty

- 90 day warranty on electronics, parts, and software
- Lifetime unlimited free technical support