



## Torchmate X

When customers need a complete turn-key system that can handle heavy-duty use, the Torchmate X is the answer. Whether it is cutting thick or thin plate, plasma or oxy-fuel, the Torchmate X will do it with power, speed, and accuracy. This machine is welded with a six axis industrial robot, providing technology found only in the manufacturing of machines selling for \$150,000 or more.

Available with either adjustable water or zoned down-draft exhaust, the Torchmate X will provide increased productivity and profits for your business.

### Standard Features

- Heavy Duty Steel Gantry
- 10:1 low backlash gearboxes
- Full Cable Carrier System
- Workstation with Computer
- Welded with 6-axis robot
- Adjustable water height on water table
- Durable powder coat finish
- Easy access doors for cleaning
- Angled support slats for increased life
- Complete in house testing prior to shipment on fully assembled systems

### Machine Size

- 5'x10' to 10'x40'
- 5'x10' machine leaves 96"x151" footprint

### Table Type

- Gantry Kit or Turn-Key Machine

### Cutting Capacity

- Cutting Width      5' up to 10'
- Cutting Length     10' up to 40'
- Plasma Cutting      Up to 3" Mild Steel  
Up to 3" Aluminum

- Oxy-Fuel Cutting      Up to 1-1/4" Stainless  
   Up to 10"

## **Standard Equipment**

- Choice of water or zoned downdraft table

## **Construction**

- Steel fabricated gantry with dual x-axis drive
- Precision y-axis linear guide—the ultimate in accuracy and durability
- Precision ground x-axis guide rails—.001 tolerances, 63 Micro finish, custom made in the USA

## **Electronics/Motion System**

- Closed loop servo drive motors for maximum speed and precision

## **User Controls**

- PC based control software with USB interface

## **Weight**

- Approximately 4800 lbs. for 5'x10' table

## **Input Power**

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

## **Cutting Area**

- 5'x10' to 10'x40'

## **Drive System**

- Rack and pinion with 10:1 low backlash gearbox reduction

## **Traverse Speed**

- Up to 1500 ipm

## **Cut Speed**

- Up to 500 ipm

## **Machine Resolution**

- Approximately .0004"

## **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**

- The Torchmate CAD/CAM program was developed specifically to create shapes for cutting. It contains every feature needed, including dxf importation, conversion of scanned shapes, full automatic nesting, automatic kerf compensation, automatic lead-ins and lead-outs, & 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**

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