

FAQ

What preparations must be made for my Torchmate table / plasma cutter installation?



Cutting
Systems



When installing a Torchmate CNC Cutting System in your workshop, there are many factors that will influence the potential productivity and ease of use of the machine—and the safety of the operator. The main factors to prepare for include the physical layout and placement of the machine in the shop and the availability of power, compressed air and other gases, and ventilation.

Space

When preparing to install the Torchmate CNC Cutting System, provide sufficient space for efficient operation. This includes considering the room to safely load and unload the material being cut, and storage for the raw materials and finished products.

If your system is too far from your material storage or from the stations where additional operations may be performed, it reduces your overall efficiency. A good goal is to arrange a balance between space and efficiency.

Consider placing the equipment in an area that can handle any expansion, as needed.

Electrically powered modules

The following components of the system must be supplied with power.

- *CNC Control box*
- *Plasma power supply* (separate purchase)
- *Computer* (separate purchase)
- *Air compressor* (separate purchase)
- *AVHC Control box* (optional)
- *Oxyfuel / plate marker relay box* (optional)

Check the power distribution panel circuits

Always consult with your electrical service provider or a qualified electrician to ensure that each circuit meets the equipment's requirements and is safe to operate.

Grounding

Many pieces of shop equipment can generate enough high frequency electromagnetic and radio waves to interfere with the operation of the CNC Control box or the computer or both. Consider installing a ground rod near the Torchmate CNC Cutting System to help reduce electromagnetic interference (EMI). Always consult with your electrical service provider or a qualified electrician regarding electrical code requirements for grounding rods in your local area.

For additional information, see:

http://torchmate.com/uploads/downloads/resource-center/EMI_Reduction.zip

Compressed Air and Gas

Plasma operations and the oxyfuel processes require compressed gas supplies. These may require the placement of gas cylinders, regulators, and lines in the space near the CNC cutting system.

Leave adequate space for moving empty and replacement cylinders and for safe placement of pressurized and flammable gases well away from the operation of the cutting torch.

Fumes

Recognize that smoke and dust are created by the cutting processes. Plan to remove it and to provide a supply of clean air.



The Lincoln Electric Modular Extraction Hood removes dust and smoke.

The Lincoln Electric Mobile Welding Fume Extractor with Filtration can also be positioned near the cutting area.



Consumables

If you know the types of materials and the thicknesses you will be cutting, you can plan to keep a good stock of consumables on hand. This will avoid machine downtime and the scramble to obtain replacement consumables on short notice.

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To order consumables, just call Torchmate Parts Support—or visit our store website.

