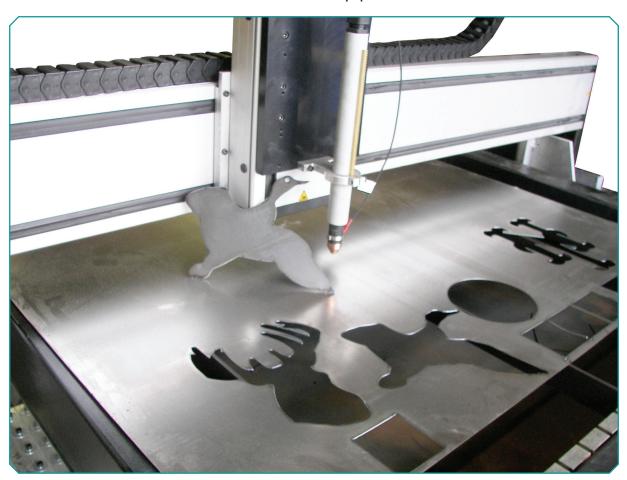




CNC Plasma Cutter Documentation

Call: 631-648-7481 or Visit: support.technocnc.com



Techno CNC Systems, LLC @2016 (04/16)

support.technocnc.com Phone: 631-648-7481



Safety Information



WARNING! READ, FOLLOW AND UNDERSTAND THE TORCH MANUAL BEFORE BEGINNING USE.

- 1) Use a welding screen when operating Plasma Torch.
- 2) Wear proper eye protection.
- 3) Wear proper protective clothing.
- 4) Disconnect all power before adjusting, loading, or replacing any materials or consumables on the machine table or torch.
- 5) CUT MATERIAL AND MACHINE WILL REMAIN HOT FOR MANY MINUTES AFTER PLASMA TORCH HAS BEEN SHUT OFF. LET COOL ACCORDINGLY. ALWAYS USE GLOVES TO AVOID BURNS AND SHARP EDGES.
- 6) Disconnect all power before servicing the CNC machine or torch. The machine may have multiple power sources, disconnect all power sources.
- 7) Ensure proper ventilation is setup and used during operation of Plasma Torch.
- 8) Install Plasma Cutter on a non-flammable surface only.
- 9) Keep all areas around the Plasma Torch free of flammable materials, including but not limited to wood, flammable material scraps, clothing, cleaning solvents, plastic and more.
- 10) Keep clothing, hair, and jewelry away from the Plasma Torch and hot metals.
- 11)Do not operate unattended.
- 12) Have appropriate fire extinguishing equipment available in case of emergency.
- 13) Refer to MSDS for material being cut for material-specific safety instructions. Stainless steel can be particularly dangerous.

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Safety Information

The general steps for cutting an NC file on the CNC plasma cutter are listed below. Review the steps below before you start the steps in this lesson on the next page and be sure to refer back to this section in you need a refresher as you complete the rest of this manual.

Pre-Machining Checklist:

Make sure you have all of the appropriate safety gear. (Eye protection, hearing protection, adequate ventilation, gloves, apron, fire extinguisher)

Confirm that you are authorized by your instructor or supervisor to operate the CNC plasma cutter.

Make sure that the machine has been setup and tested and is fully operational.

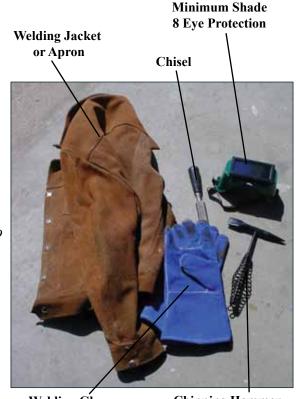
Make sure the torch has the correct comsumables installed for the torch's AMP setting and the material to be cut.

Make sure the CNC controller, the torch controller and air compressor are plugged in and turned on.

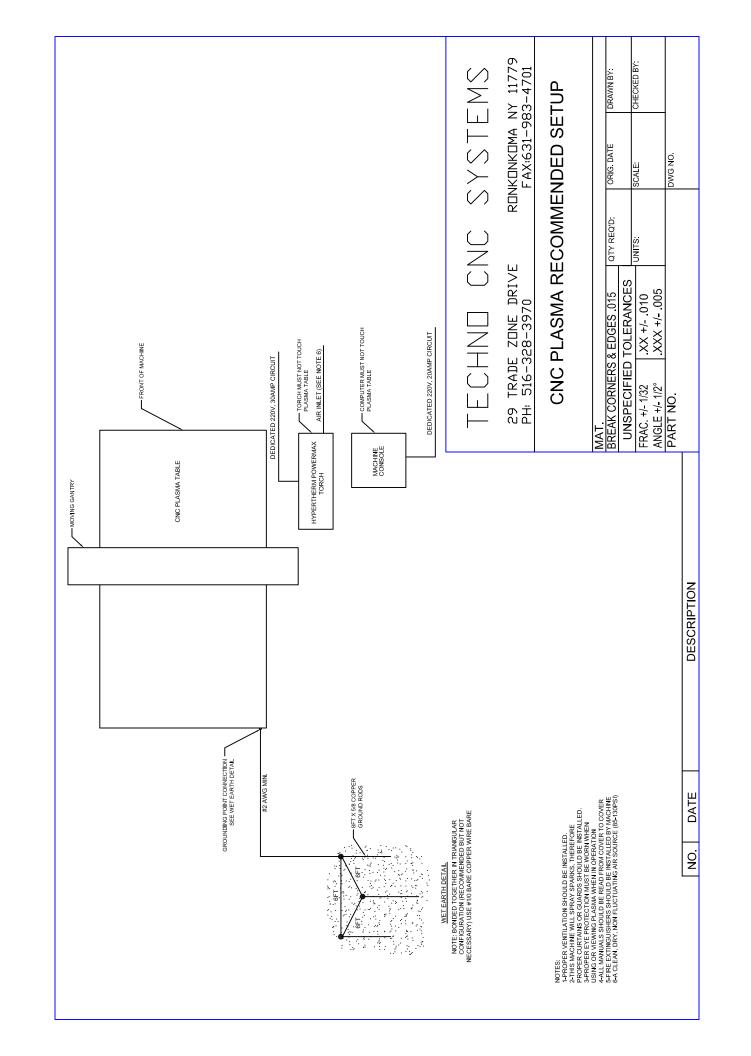
Make sure the torch controller has the specified air pressure available.

Cutting an NC file with the CNC Plasma Cutter

- 1. Check torch consumables and air pressure.
- 2. Launch the Techno CNC Interface.
- 3. Position the stock.
- 4. Set the torch voltage and cut height.
- 5. Open the desired NC file.
- 6. Preview the NC file.
- 7. Set the torch feed rate.
- 8. Move the machine to the origin on the stock.
- 9. Zero all of the axes.
- 10. Touch off the z position.
- 11. Preprocess the file.
- 12. Put on welding shield or goggles.
- 13. Click Start.

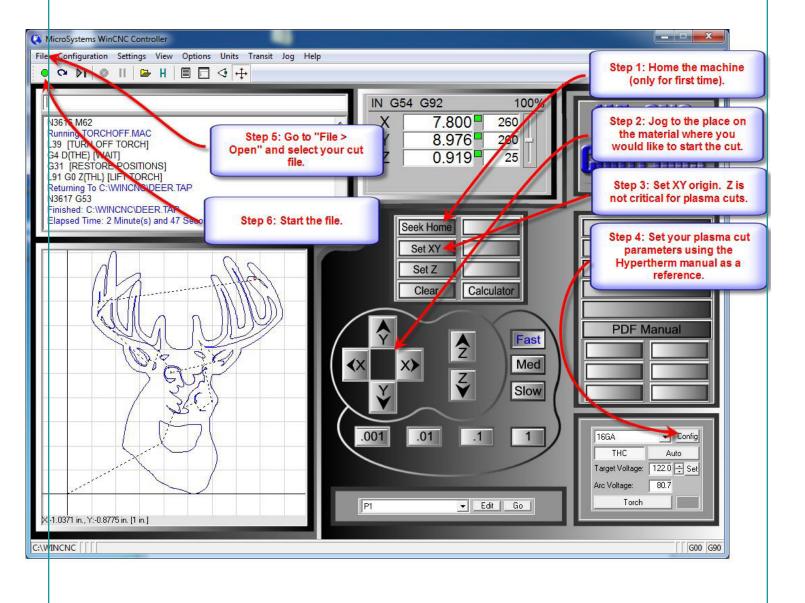


Welding Gloves Chipping Hammer





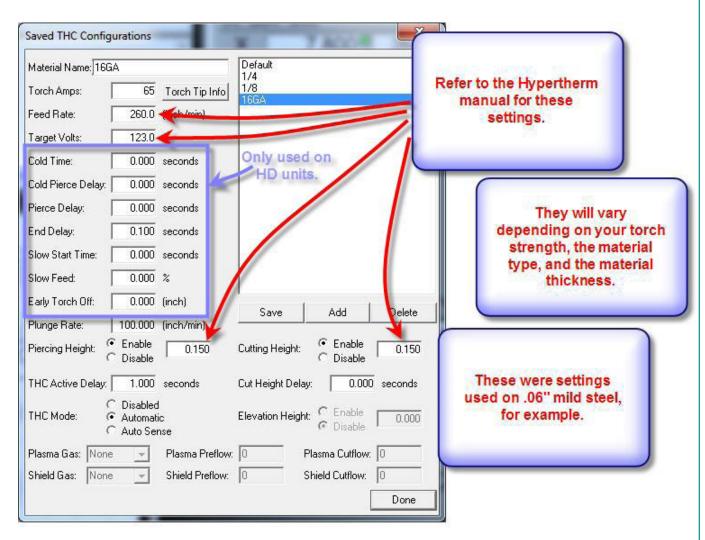
Quick Start Running Instructions



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Plasma Torch Settings



"Torch Amps" is based on the power of the torch and the torch tip.

