Torch-to-work distance is crucial to maintain optimal cut quality. The CommandTHC works with X-Y cutting systems to control this critical parameter and maximize plasma cutting quality and productivity.

*Patents pending worldwide.
Optimized X-Y torch lifter station

- Advanced-technology, high-torque motor allows 50-pound (25 kg) load capacity.
- 8 inches (203 mm) active stroke.
- 200 ipm (5 m/min) maximum z-axis travel speed.
- Positioning resolution 0.001 inch (0.025 mm).
- Moving mechanical parts are protected from the environment by a Teflon-coated, fiberglass sealing band and a mechanized shield.
- Moving parts are dry lubricated; no oil lubrication is required.
- Non-contact/inductive, upper and lower-limit switches.

X-Y standard system components

- X-Y THC lifter assembly
- THC control module
- Plasma system interface module
- Interconnecting cables
- Operator control pendant (optional)
- Breakaway (optional)

Specifications

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<td>8 inches (200 mm)</td>
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<td>18.25 pounds (8.4 kg)</td>
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</tr>
<tr>
<td>0.001 inch (0.025 mm)</td>
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Initial piercing height control function

- Initial piercing height mode
- Set point resolution
- Set point range
- Pierce height factor
- Work contact sensing
- Work clear
- Pierce delay range
- Pierce delay resolution
- Machine acceleration delay
- Machine acceleration delay
- Set cutting height; pierce height is automatically computed
- 0.010 inch (0.10 mm)
- 0.020 – 1.00 inch (0.5 – 25.4 mm)
- 1 to 3 times the cutting height
- 0.5 – 3.5 Ohmic contact and/or motor torque
- Loss of Ohmic contact
- 0 to 5 sec
- 0.010 sec
- 0.00 to 1.00 sec
- Resolution 0.010 sec

Initial piercing height stall force

- 1–10 Relative setting

Initial piercing height speed

- 1–10 Relative setting

Homing speed

- 1–10 Relative setting

Miscellaneous features

- Ability to be synchronized with parallel THC systems
- Electrically floating interface
- Machine safety interlock
- System fully complies with the following standards and directives:
  - CSA 22.2 #60
  - UL 551
  - EN 60974-1
  - EN 50199
  - EN 55011
  - Low voltage directive
  - EMC directive

For additional information, call:
TOLL-FREE IN THE USA & CANADA: 1-800-643-0030