The GENTEC line of CNC cutting systems are designed to be reliable, cost-effective, and meet your high performance cutting requirements. The Master CNC cutting series is built to ensure a smooth and accurate performance. It is equipped with a PC base CNC control, AC servo drive, precision linear guide ways and self-aligning plasma torch collision device, etc.

GENTEC provides a broad choice of options that allow you to configure your CNC cutting system with the capacities, speed and accuracy to meet your needs.
The cross axis is a high precision rack & pinion drive.

- Self aligning plasma torch with collision shutdown
- Plasma sensor THC uses precise linear way for high accuracy positioning. This low maintenance unit is dustproof and quiet
- Motorized torch holder is manufactured with durable aluminum body and equipped with a precision spline-shaft. It achieves rapid torch positioning. The high temperature protective cover is waterproof and dustproof
- Accurate high speed powder marking unit for precision line making
- Dual linear way design for cross drive provides low noise and precise motion at high speed
- The CNC controller features a Windows XP operating system and colored LCD screen. The multi-axis controller base incorporates flexibility along with easy access
- Precision ground track pre-mounted to structural H beam

Features

- Low profile, rigid gantry structure
- The brushless AC servo motors produce high torque with high inertia and accurate resolution
- Precision worm gear reducers with backlash less than 2 arc minutes
- Position accuracy: +/-0.004”; Repeat accuracy: +/-0.004”
- Flexible cable-chain hose and cable conveyors in both axis
- The carriage is equipped with pre-loaded guide blocks for precise linear motion
- Optional preheat and individual torch solenoid valve is available
- Self lubricating main rail is standard
- Optional patented dust prevention device on cross axis prevents dust entering the linear ways
- Trouble-free torch holder with fine adjustment settings (Forward-Reverse and Tilt angle) provides long service life
- All cutting solenoids valves and pressure regulators are mounted in a central cabinet conveniently installed to the machine frame. The cutting control with Hi/Low preheat and auto ignition is designed to work with all torches at their maximum pressure and flow rates
**Options**

- Motorized torch station
- Auto ignition device
- Water spray device
- Torch height sensing control
- Bevel cutting attachment
- Bevel contour cutting attachment
- Profile bevel cutting attachment (Master 50 or larger)
- Hi/LO preheat control
- Dual stage piercing control
- Zinc powder or plasma marking
- Air scribe marker for layout lines and bend lines
- Pneumatic automatic feed pilot drill
- Plasma THC
- Laser point positioning unit
- Anti-collision device for plasma torch (automatic shutdown)
- High-speed unit
- Transverse Anti-dust protection
- Several choices of nesting software available
- Water table
- Sequential zone downdraft table
- Dust collector system
- Laser hole cutting gantry

**Cutting Table**

GENTEC can supply various type of cutting tables including downdraft tables for fume exhausting and water tables for submerged water cutting.

**Others**

GENTEC's precision CNC machine can be incorporated with a variety of plasma cutting power supplies (Hypertherm, Thermal Dynamics, Kjellberg…) and CNC controls (Hypertherm, Burny, Wescan).

[Image of cutting table options]
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit</th>
<th>Master 20s/20</th>
<th>Master 25s/25</th>
<th>Master 30s/30</th>
<th>Master 35s/35</th>
<th>Master 40s/40</th>
<th>Master 50</th>
<th>Master 60</th>
<th>Master 70</th>
<th>Master 80</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Input</strong> **</td>
<td>-</td>
<td>3 Phase 230/460V</td>
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<tr>
<td><strong>Rail Gauge (B)</strong>*</td>
<td>in</td>
<td>78, 98, 118, 137, 157, 196, 236, 275, 324</td>
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<tr>
<td><strong>Max. Cutting Width (A)</strong></td>
<td>in</td>
<td>62, 82, 102, 122, 141, 181, 220, 259, 299</td>
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<tr>
<td><strong>Max. Torch Stroke on Cross Axis (E)</strong></td>
<td>in</td>
<td>78, 98, 118, 137, 157, 196, 236, 275, 324</td>
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<tr>
<td><strong>Max. Travel Speed</strong></td>
<td>in/min</td>
<td>470 Single/630 Dual, (945 optional)</td>
<td>630 Dual, (945 optional)</td>
<td>470 Dual, (945 optional)</td>
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<tr>
<td><strong>Cutting Speed</strong></td>
<td>in/min</td>
<td>314 Single/470 Dual, (630 optional)</td>
<td>470 Dual, (945 optional)</td>
<td>314 Dual, (470 optional)</td>
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<td><strong>Min. Cutting Width (F)</strong></td>
<td>in</td>
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<tr>
<td><strong>Longitudinal Drive</strong></td>
<td>Rack &amp; pinion drive on single side/dual side</td>
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<tr>
<td><strong>Cross Direction Drive</strong></td>
<td>Unique bell drive or Rack &amp; pinion drive</td>
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<tr>
<td><strong>Longitudinal Rail</strong></td>
<td>Ground I-rail</td>
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<tr>
<td><strong>Cross Direction Rail</strong></td>
<td>Double linear way</td>
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<tr>
<td><strong>Overall Rail Length</strong></td>
<td>in</td>
<td>118</td>
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<tr>
<td><strong>Overall Width (C)</strong></td>
<td>in</td>
<td>120, 140, 160, 180, 200, 238, 276, 315, 355</td>
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<tr>
<td><strong>Overall Height (D)</strong></td>
<td>in</td>
<td>67, 71, 73, 75</td>
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<td><strong>Parking Space</strong></td>
<td>in</td>
<td>50, 60, 72, 84</td>
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<tr>
<td><strong>Overall Depth</strong></td>
<td>in</td>
<td>60, 69, 81, 93</td>
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<tr>
<td><strong>Weight</strong></td>
<td>lb</td>
<td>2712, 2811, 3263, 3396, 3528, 4631, 4851, 5292, 5623</td>
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</table>

* Master 20s/25s/30s/35s/40s are single drive on longitudinal axis  ** Other power inputs available  *** Special or large rail gauge are also available

### Special Larger Sizes Available

![Diagram](image-url)

**Specifications Subject to Change Without Prior Notice.**

## Warranty

GENTEC warrants all components to be free from defects in workmanship. GENTEC's experienced engineers provide total solutions including CNC control and precision plasma cutting process work.