

CUTTING AUTOMATION

HIGH PERFORMANCE, ADVANCED TECHNOLOGY

MASTER SERIES

The GENTEC line of CNC cutting system are designed to be a 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.

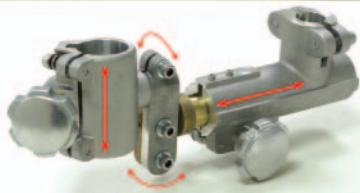


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CUTTING AUTOMATION MASTER SERIES

■ **ADVANCED TECHNOLOGY**



Motorized torch station

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**

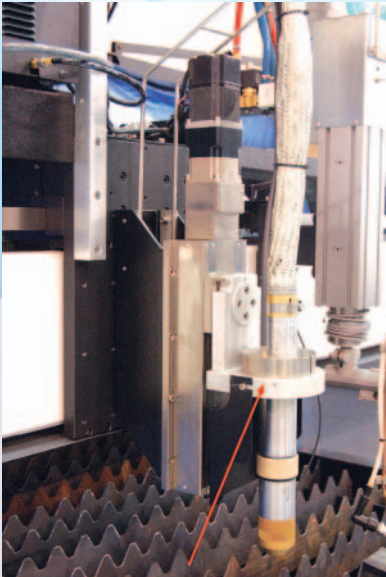
- ↗ Low profile, rigid gantry structure
- ↗ The brushless AC servo motors produce high torque with high inertia and accurate resolution
- ↗ Precision worm gear reducers with backlash less than 2 arc minutes
- ↗ Position accuracy: ± 0.004 "; Repeat accuracy: ± 0.004 "
- ↗ Flexible cable-chain hose and 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



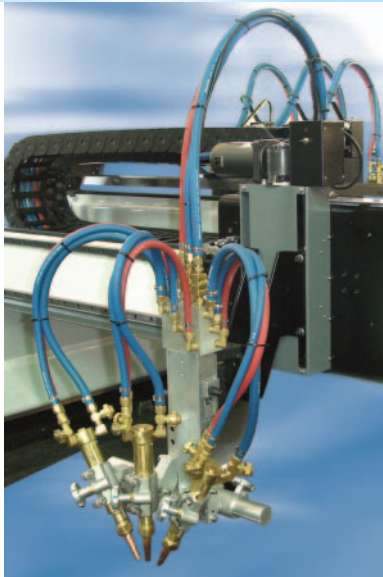
PC-based CNC controller

OPTIONS

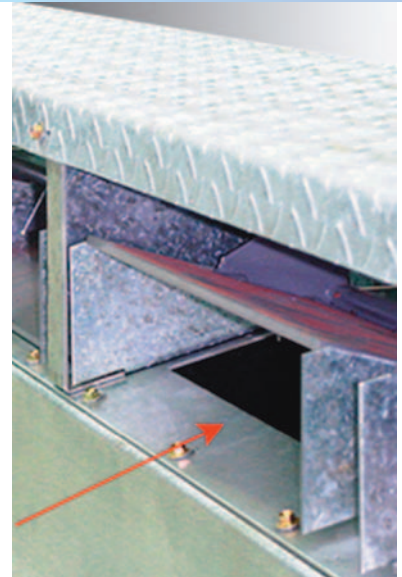
- ⇒ Motorized torch station
- ⇒ Auto ignition device
- ⇒ Water spray device
- ⇒ Torch height sensing control
- ⇒ Bevel cutting attachment
- ⇒ Bevel contour cutting attachment
- ⇒ Profile bevel cutting attachment (Master 50 or larger)
- ⇒ HI/LO preheat control
- ⇒ Dual stage piercing control
- ⇒ Zinc 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



Anti-collision device for plasma torch



Bevel cutting attachment



Sequential zone downdraft table

■ **CUTTING TABLE**

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

■ **OTHERS**

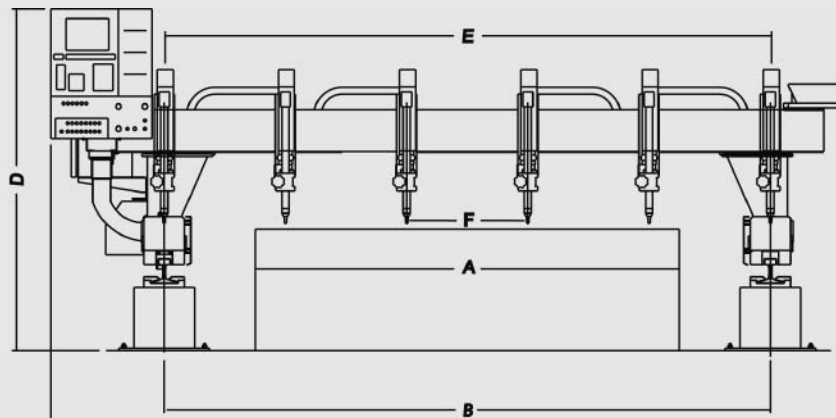
GENTEC's precision CNC machine can be incorporated with a variety of plasma cutting power supplies (Hypertherm, Thermal Dynamics, Kjellberg...) and CNC controls (Hypertherm, Burny, Wescan).

SPECIFICATIONS

MODEL	UNIT	Master 20s/20	Master 25s/25	Master 30s/30	Master 35s/35	Master 40s/40	Master 50	Master 60	Master 70	Master 80	
POWER INPUT **	-	3 Phase 230/460V									
RAIL GAUGE (B) ***	in	78	98	118	137	157	196	236	275	324	
MAX.CUTTING WIDTH (A)	in	62	82	102	122	141	181	220	259	299	
MAX. TORCH STROKE ON CROSS AXIS (E)	in	78	98	118	137	157	196	236	275	324	
MAX. TRAVEL SPEED	in/min	470 Single/630 Dual, (945 optional)					630 Dual, (945 optional)		470Dual, (945 optional)		
CUTTING SPEED	in/min	314 Single/470 Dual, (630 optional)					470 Dual, (945 optional)		314 Dual, (470 optional)		
MIN. CUTTING WIDTH (F)	in	4									
LONGITUDINAL DRIVE		Rack & pinion drive on single side/dual side					Rack & pinion drive on dual side				
CROSS DIRECTION DRIVE		Unique bell drive or Rack & pinion drive									
LONGITUDINAL RAIL		Ground I-rail									
CROSS DIRECTION RAIL		Double linear way									
OVERALL RAIL LENGTH	in	118									
OVERALL WIDTH (C)	in	120	140	160	180	200	238	276	315	355	
OVERALL HEIGHT (D)	in	67		71			73		75		
PARKING SPACE	in	50		60			72		84		
OVERALL DEPTH	in	60		69			81		93		
WEIGHT	lb	2712	2811	3263	3396	3528	4631	4851	5292	5623	

* 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



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.

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