

CNC GAS / PLASMA PROFILE CUTTING SYSTEMS



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CNC GAS / PLASMA PROFILE CUTTING SYSTEMS

Cutting Width	: 1 to 5 meters in steps of 0.5 meter
Cutting Length	: 1 to 30 meters in steps of 1 meter
Cutting Head	: GAS and / or PLASMA
Cutting Stations	: Single / or Multiples
Auto Height Control	: Capacitive type / Arc Voltage type
Plasma Source	: Inverter based with 100% duty cycle
Software	: Windows based
Nesting Software	: Included

MACHINE TYPE: CNC PROFILE CUTTING MACHINE

MODEL	: APC
1. Cutting Torches	: Gas or Plasma or both
2. Working Width	: 1 to 5 meters in steps of 0.5 meter
3. Working Length	: 1 to 30 meters in steps of 1 meter
4. Cutting Speed	: 30-3000 mm/ min
5. Accuracy	: ± 1.0 mm
6. Kerfs compensation	: Pre-Kerf through software

DESCRIPTION:-

BASIC STRUCTURE: Machine consists of a gantry supported on carriage on operator's side & a free roller on the other. Driven by motors one each on X-axis & Y-axis.

DRIVE MECHANISM: The motion along longitudinal (Y) axis is powered by digital controlled motor Panasonic or equivalent make coupled with backlash free planetary gearboxes of Panasonic or equivalent make. This arrangement provides smooth acceleration, deceleration & controlled profile cutting speeds.

The motion along cross (X) axis is powered by digital controlled motor mounted on the master/control console.

CNC CONTROLLER: Microsoft windows XP / 7 based easy to operate CNC profile cutting controller. Built around industrial grade computer with peripherals designed specifically for the metal cutting industry to work in harsh working environment with dust, smoke etc.

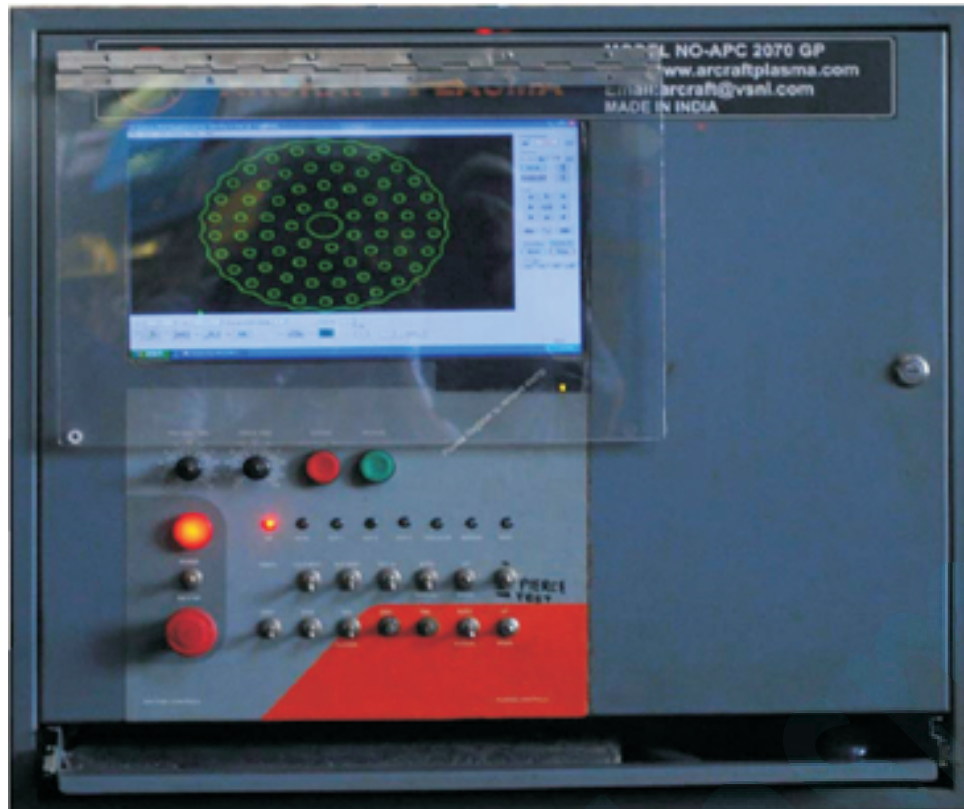
Operating system: Microsoft windows XP – Embedded version.

Processor : Intel 2.5 GHZ or greater

Memory : 1 GB

Hard drive : 80GB

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OXY-FUEL CUTTING STATION:

1.	Number of Gas Torches	Single or Multiple
2.	Cutting Capacity	70mm or 100 mm
3.	Gas	Oxygen Acetylene or LPG

PLASMA CUTTING MACHINE :

1.	No. of Plasma Torches	Single or Multiple	(Air / Nitrogen)
2.	Plasma Machine	Make : Aircraft Plasma Model : ARC CUT....	Transformer Based / Inverter Based (IGBT)
3.	Capacity Cutting	Up to 150mm	Mild Steel, Stainless Steel, Aluminum, Copper, Carbon steel & its alloy etc.
4.	Type of Torches	Air / Water cooled	

High / Low gas pressure change with Toggle switch on the operator's console.

Ball Screw / motor driven torch up/ down mechanism for Z-axis.

Easy access set of regulators for gas pressure setting.

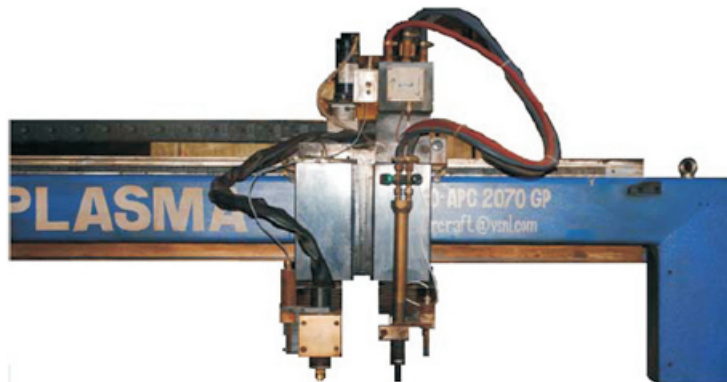
Ease, Smooth & Clean Piercing.

Manual gas control valves on each torch for preheat oxygen & adjust / set the flame.

Flash back arrestors provided on cutting stations for safety of the machine.

AUTOMATIC TORCH HEIGHT CONTROLLER:-

Capacitive type or Arc voltage based automatic torch height controller helps maintain constant distance between torch & work piece during the entire cut motion .this helps counter the waviness / undulations present in the work piece.



NESTING SOFTWARE:-

Nesting software as standard feature places shapes to be profile cut in such a way that optimum utilization of material is obtained.

FEATURES OF NESTING SOFTWARE:-

- File import from auto cad.
- Automatic nesting of multiple parts & sheets
- Off cut nesting ,manual nesting
- Increment nesting to combine automatic as well as manual nesting.
- Automatic as well as manual leading/lead out generation.
- Automatic tool path generation & compensation.
- Automatic as well as manual off cut generation.
- Corner loop generation to achieve better finish at sharp turns
- Tool path modification to avoid torch hit during rapid motion.

CUSTOMER TO PROVIDE THE FOLLOWING:-

- Raised RCC floor beam with solid I beam for rail mounting
- Single phase 220VAC supply for CNC with earthing
- UPS 3 KVA capacity for CNC
- Three phase, 4 wire, 415VAC supply for Plasma machine with earthing
- Compressed air supply 6 bar/10cfm in case of Plasma machine.
- Gas cylinder / manifold of Oxygen & Acetylene incase of Gas cutting.
- Cutting Table
- Standard drawing for civil work & cutting table will be provided by us.

Welding Automation Range of Products : • Welding Gun • Oscillator (weld weaver) • Cold wire feeders • Seam trackers • AVC • Cameras and video displays • X-Y slides (manual and motorized) • Welding turntables • Welding positioners • Welding Turning Rolls • Welding lathes • Column and boom (manipulators)

Represented by :



M/s. Aircraft Plasma Equipments (I) Pvt. Ltd.

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Note : Specifications subject to change without notice