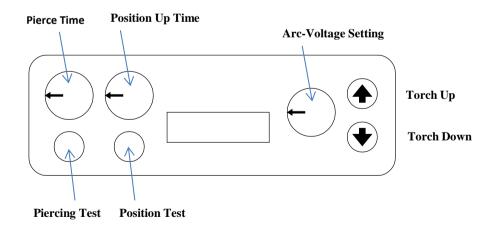
Am.co.za Metallise Cnc plasma cutter

AM.CO.ZA MetalWise Lite CNC Plasma Cutter Suggested Parameters

Latest Modified at 2017/02/14 01:39:42 AM

Plasma Cutting Easy Panel

The easy panel is an upgrade for the MetalWise Lite. It brings up some common settings in an easy to adjust knob and common functions to an easy to press button. Without the panel, all settings can still be set inside the Control System. The Plasma Cutting Easy Panel is an upgrade for convenience not function.



F1 Common: Common Settings for Plasma and Flame Cutting

Setting	Suggest Value
Max Cutting Speed	Setup maximum cutting speed depends on material, not suggest higher
	than 4000mm/min, normally 300 – 2000mm/min
Manual Move Speed	6000 mm/min , 6meter per minute is the maximum speed machine
	designed for with the stepper motors installed
G00 Move Speed	4000 mm/min , the torch moving speed from one path to another within
	a cutting process. Set lower than maximum speed avoids loosing steps.
Demo/Back Speed	2000 mm/min, the speed used for move backwards
Marker Speed	0, no use
Kerf Value	Normally 0.3 to 1mm, half of the value of the width of the cutting gap
Corner Speed	95% of normal speed suggested, can be lower if not cutting through
Demo Run Speed	4000 mm/min, the speed used for demonstration cutting process
Cutting Type	Flame, Plasma or Demo, depends on your requirement

F3 Plasma: Plasma Cutting Settings

those values have been override by the Easy Panel

Setting	Suggest Value
Delay Before Arc	0.3 – 0.4s , time delay from torch positioned to arc, to avoid vibration
Pierce Time #	0.3 – 0.8s or more, depends on the plate thickness
Torch Up Time	1 – 2s, when finish one cut, lift time before move to next one
Arcing Check Time	15s
Position Check Time #	10s
Position Up Time #	0.3 – 0.6s , after torch touched plate, lift time before positioned and arc.
	The optimal distance for piercing is between 2-3 mm.
Speed to Lock THC	95.00% mm/min, disable THC if speed lower than this setting
Distance to Lock THC	5mm, when part of cutting path less than this distance, disable THC
Lose Arc Delay	Os , delay for machine gives warning when arc broke. Need to setup delay if you cut mesh or grill, or with lead in/out try 0.5s. For Hypertherm unit, try 1.5s since the signal from Hypertherm Powermax unit generally have delays.
Time to Lock THC Before M08	Os .
Watch Arc Enable	Yes, enable Arc-Voltage checking. Set to No to disable THC
Use Cylinder THC	No
Arc-Voltage #	130.00V Change the value to get optimal distance of cutting between plate to nozzle about 2-3 mm.
Over-Arc Protection #	30.00V
Sensitive #	40.00%
Step #	1.00V
Position Time #	6.00S

F5 System: System Settings

Setting	Suggest Value
Horizontal Axis Pulse Vertical Axis Pulse	453.000 or 500.000 Pulse/mm, keep original value. This value is mechanical dependant and use to determine distance moved
Max Cutting Speed Max G00 Speed Max Manual Speed	Can set at machine maximum possible speed 8000mm/min, but suggest use 6000mm/min or lower.
Small Arc Limit	500mm/min
Limited Speed Below Radius	15mm, this setting gives you better cutting quality on small circles.
Accelerate Time in Flame	0.40s
Accelerate Time in Plasma	0.30s
Emergency Stop Time	0.08s
Start Speed	250mm/min
Max +X	MetalWise Lite does not come with limit switch, the moving distance
Max +Y	determined by mechanical structure. Keep default setting,
Min -X	100000.00mm for Max, and -100000.00mm for Min.
Min -Y	