

# MICRO PLASMA WELDING MACHINES



**POWER SOURCE**



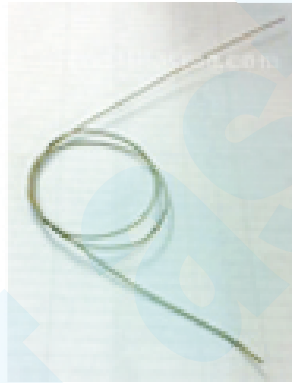
**PLASMA ARC**



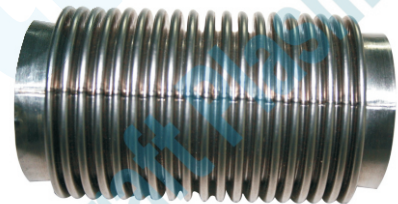
**MICRO PLASMA TORCH WITH CABLE**



**LONGITUDINAL WELD OF SS**



**CATHETER TUBE**



**WELDED BELLOW**



**CATHETER TUBE WELD**



**SS FILTER**



**SS316 SINTERED MEDIA**

## MICRO PLASMA WELDING FEATURES

With built-in Pilot arcing system.

PLL based closed loop system for highly stable arc.

Full fledged pulsing facility.

Milli second square wave correction technique for fast correction of welding current irrespective of arc length or input voltage variation.

<b>Model</b>	<b>MP-25</b>	<b>MP-50</b>
<b>Input Power</b>		
Volts	220 VAC +/- 10 %	220 V +/- 10 %
Phase / Frequency	1 Phase/50-60 Hz	1 Phase/50-60 Hz
Input KVA	1.1 KVA	2.2 KVA
Input Kw	0.95Kw	1.9 Kw
Power Factor	0.95	0.95
<b>Output Power</b>		
Maximum Output	25 amps	50 amps
Current Range	1- 25 amps	50 amps
Current Control	Stepless	Stepless
Duty cycle	100%	100%
Display	Amp / Volt (Digital)	Amp / Volt (Digital)
Pulsing Parameter		
Base current	1- 25 amps	1-50 amps
Peak current	1- 25 amps	1-50 amps
Pulse frequency	1 to 10 Hz	1 to 10 Hz
Pulse Duty	10 to 90 %	10 to 90 %
Up Slope	0 - 10 Seconds	0 - 10 Seconds
Down Slope	0 - 10 Seconds	0 - 10 Seconds
Pre Flow	0 - 10 Seconds	0 - 10 Seconds
Post Flow	0 - 10 Seconds	0 - 10 Seconds
Pilot Arcing		
High Frequency	Electronic	Electronic
Current	2 Amp	2 Amp
Trip	Auto	Auto
Dimension In mm		
W x H x L mm	490x660x670mm	490x660x670mm
Weight Kgs (Approx)	45 (Approx)	65 (Approx)

IGBT inverter based with integrated hf start system. PLC sequencer for automatic operation and integration with welding lathe / positioner / turntable / linear welding fixture etc.

- The Machine is capable of welding metal sheet of capability from 10 microns to 3mm thickness.
- A manual torch and a machine torch available for manual or mechanised operation.
- The machine is fully programmable ( with built in welding cycle timer) in the auto mode.

Digital version available on demand with complete computer interfacing for welding including turntable for welding round cross sections.

**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 :



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Note : Specifications subject to change without notice