

PLASMA WELDING MACHINE



POWER SOURCE



SUBMERSIBLE PUMP COMPONENT



FLEXIBLE JOINT



TANTALUM

Features:

- IGBT inverter based with analog/digital controls & integrated HF arcing system.
- Programmable Current and Gas down Slope available for automatic closing of key hole during mechanized welding.
- Recessed electrode reduces the possibility of tungsten inclusions in the weld and can substantially increase the period between electrode dressings resulting in increased life.
- Weld in a single pass up to 6 mm plates in square butt position and 10 mm plates in only two passes.
- Keyhole mode of welding gives smaller heat affected zone resulting in reduced strength loss at the joint for heat treated metals, promotes less grain growth which gives better ductility.
- Reduced weld time results in less embrittlement by carbides and complex inter-metallic compounds for stainless steel and super alloys

MICRO PLASMA WELDING MACHINE



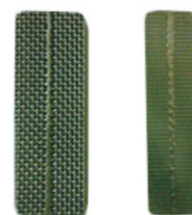
POWER SOURCE



WELDED BELLOW



DIAPHRAGM



**SS316
SINTERED MEDIA**

Features:

- With built-in Pilot arcing system.
- PLL based closed loop system for highly stable arc.
- Milli second square wave correction technique for fast correction of welding current irrespective of arc length or input voltage variation.
- The Machine is capable of welding metal sheet of capability from 10 microns to 3mm thickness.
- 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 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.



Specifications:

Model	Micro Plasma Welding			Plasma Welding			
	MP-25	MP-50	MP-80	PW-100	PW-150	PW-200	PW-400
Input							
Supply	V	220 \pm 10 %	220 \pm 10 %	220 \pm 10 %	415 \pm 10 %	415 \pm 10%	415 \pm 10%
Phase / Freq.	Hz	1-Ø / 50-60	1- Ø / 50-60	1-Ø / 50-60	3-Ø / 50-60	3-Ø / 50-60	3-Ø / 50-60
Input	KVA	1.1	2.2	3.6	4.5	7.0	17.8
Input	Kw	0.95	1.9	3.0	3.8	6.5	17.0
Power Factor		0.95	0.95	0.95	0.95	0.95	0.95
Output							
Max Current	Amp	25	50	80	100	150	200
Current Range	Amp	1 - 25	1 - 50	1 - 80	5 – 100	5 - 150	10 - 200
Current Control		Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
Duty cycle	%	100	100	100	100	100	100
Display	A/V	Digital	Digital	Digital	Digital	Digital	Digital
Pulsing							
Base current	Amp	1 - 25	1 - 50	1 - 80	5 - 100	5 - 150	10 - 200
Peak current	Amp	1 - 25	1 - 50	1 - 80	5 - 100	5 - 150	10 - 200
Pulse freq.	Hz	1 - 10	1 - 10	1 - 10	1 - 10	1 - 10	1 – 10
Pulse Duty	%	10 - 90	10 - 90	10 - 90	10 - 90	10 - 90	10 – 90
Up Slope	Sec.	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10	1 – 10
Down Slope	Sec.	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10	1 – 10
Pre Flow	Sec.	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10	1 – 10
Post Flow	Sec.	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10	1 – 10
Pilot Arcing							
High Frequency		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Current	Amp	2	2	5	5	5	10
Trip		Auto	Auto	Auto	Auto	Auto	
W x H x L	mm	490 x 660 x 670	490 x 660 x 670	490 x 660 x 670	490 x 660 x 670	490 x 660 x 670	700 x 685 x 920
Weight	Kgs	45	65	70	75	125	125

Arcraft offers wide range of Welding, Surface Engineering job work & Testing at our end.

We have,

- In house facilities for trial and job work.
- Column & Boom, Oscillator, Positioner, Welding Lathe, MIG / TIG / PLASMA / SAW / PTA Welding Power source available.
- NDT facilities for MPT, LPT, VT, UT available.
- Trained Welding Engineers, Technicians & ASNT level II personnel for NDT & Quality Analysis.
- Weld process development: Optimum selection of process parameter for all jobs. Preparation and qualification of WPS and PQR.
- Equipment optimization skills and experience: We can also help you optimize equipment selection for your part applications.

Specifications are subject to change without notice