

SALIENT FEATURES FOR KS MICRO PLASMA

- ❑ IGBT based inverter power supply saves precious power .
- ❑ Advanced inverter design system delivers continuously adjustable constant current output.
- ❑ Gives you stable arc at as low as 0.5 Amps.
- ❑ High open circuit voltage (OCV) for good arc striking and for good quality welding.
- ❑ Electronic pilot arc system ensures soft start and reliable arc striking.
- ❑ No load power consumption is very low (<0.1 KVA).
- ❑ Stepless setting for pilot arc & main arc current.
- ❑ Local or remote arc current setting.
- ❑ Actual welding current & pilot arc current can be seen on front panel digital display.
- ❑ High temperature protection with indication.
- ❑ Under voltage/over voltage/over current protection.
- ❑ Single phasing protection.(For 3 phase systems.)
- ❑ Low gas & low water pressure protection.
- ❑ Logic fail protection (ensures IGBT safety).
- ❑ High efficiency more than 90 %.
- ❑ AAT & 2T/4T mode.
- ❑ Equipped with gas pre flow/post flow , up slope/down slope ,peak & background current adjustment, pulse frequency, pulse on time setting
- ❑ Cnc/Robotic machine interface option for automated control.
- ❑ Easy to use.

TORCH

- ❑ Light weight beating super heavy weight.
- ❑ Hand torch head 100 gms. Machine torch head 85 gms.
- ❑ Innovatively deisgned consumbles ensure longer life.
- ❑ High precision design ensuring longer torch life.

ELECTRO-PLASMA EQUIPMENTS PVT. LTD.

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ELECTRO-PLASMA EQUIPMENTS PVT. LTD.

THE LEADER IN
INVERTER MICRO PLASMA & PLASMA WELDING

MICRO PLASMA WELDING MACHINES

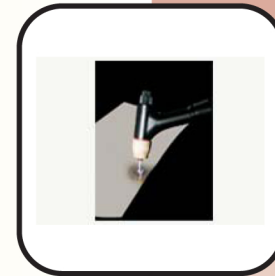
MODEL	KLEIN SCHWEISSER 25 MICRO PLASMA	KLEIN SCHWEISSER 50 MICRO PLASMA
Input supply	220 V AC, 1 Phase, 50Hz.	220 V AC, 1 Phase, 50Hz.
Operating supply voltage range	180 V AC to 250 V AC.	180 V AC to 250 V AC.
Input power	0.85 KVA at 25 Amps.	1.6 KVA at 50 Amps.
Open circuit voltage (Main arc)	95 V DC to 105 V DC.	95 V DC to 105 V DC.
Welding current range	0.5 Amps. DC to 25 Amps. DC.	0.5 Amps. DC to 50 Amps. DC.
Welding current control	Stepless with fine control.	Stepless with fine control.
Base current	1 Amps. DC to 25 Amps. DC.	1 Amps. DC to 50 Amps. DC.
Up slope	0 to 10 sec.	0 to 10 sec.
Down slope	0 to 10 sec.	0 to 10 sec.
Pulse frequency	1 Hz to 1000 Hz	1 Hz to 1000 Hz
Pulse on time	10 % to 90 %	10 % to 90 %
Pre flow	0 To 10 sec.	0 To 10 sec.
Post flow	0 To 10 sec.	0 To 10 sec.
Arc starter	Electronic pilot arc.	Electronic pilot arc.
Open circuit voltage (Pilot arc)	100 V DC to 120 V DC.	100 V DC to 120 V DC.
Pilot arc current	2.0 Amps. DC to 5.0 Amps. DC.	2.0 Amps. DC to 5.0 Amps. DC.
Duty cycle @ 40 deg.cel.Amb.	100 % at 25 Amps.	100 % at 50 Amps.
Class of insulation	H class.	H class.
Cooling	Forced air cool.	Forced air cool.
Protection	IP-21.	IP-21.
Pilot gas supply	Argon, 25 PSI at 0.1-2 ltrs./min.	Argon, 25 PSI at 0.1-2 ltrs./min.
Shield gas supply	25 PSI at 1-10 ltrs/min pure argon or various mixtures as determined by desired arc char. & metallurgy of the work material.	25 PSI at 1-10 ltrs/min pure argon or various mixtures as determined by desired arc char. & metallurgy of the work material.
Weight	65 Kg.Approx.	65 Kg.Approx.
External Dimensions (L. W. H.)	1005mm. 500mm. 530mm.	1005mm. 500mm. 530mm.



PLASMA WELDING MACHINES

MODEL	KLEIN SCHWEISSER 150 PLASMA	KLEIN SCHWEISSER 400 PLASMA
Input supply	220 V AC, 1 Phase, 50Hz.	415 V AC, 1 Phase, 50Hz.
Operating supply voltage range	180 V AC to 250 V AC.	370 V AC to 460 V AC.
Input power	4.8 KVA at 150 Amps.	10.5 KVA at 400 Amps.
Open circuit voltage (Main arc)	95 V DC to 105 V DC.	95 V DC to 105 V DC.
Welding current range	1.0 Amps. DC to 150 Amps. DC.	5.0 Amps. DC to 400 Amps. DC.
Welding current control	Stepless with fine control.	Stepless with fine control.
Base current	5 Amps. DC to 150 Amps. DC.	10 Amps. DC to 400 Amps. DC.
Up slope	0 to 10 sec.	0 to 10 sec.
Down slope	0 to 10 sec.	0 to 10 sec.
Pulse frequency	1 Hz to 1000 Hz	1 Hz to 1000 Hz
Pulse on time	10 % to 90 %	10 % to 90 %
Pre flow	0 To 10 sec.	0 To 10 sec.
Post flow	0 To 10 sec.	0 To 10 sec.
Arc starter	Electronic pilot arc.	Electronic pilot arc.
Open circuit voltage (Pilot arc)	100 V DC to 120 V DC.	100 V DC to 120 V DC.
Pilot arc current	2.0 Amps. DC to 5.0 Amps. DC.	2.0 Amps. DC to 5.0 Amps. DC.
Duty cycle @ 40 deg.cel.Amb.	100 % at 120 Amps.	100 % at 250 Amps.
Class of insulation	H class.	H class.
Cooling	Forced air cool.	Forced air cool.
Protection	IP-21.	IP-21.
Pilot gas supply	Argon, 25 PSI at 0.5-5 ltrs./min.	Argon, 25 PSI at 0.5-5 ltrs./min.
Shield gas supply	25 PSI at 1-15 ltrs/min pure argon or various mixtures as determined by desired arc char. & metallurgy of the work material.	25 PSI at 1-20 ltrs/min pure argon or various mixtures as determined by desired arc char. & metallurgy of the work material.
Weight	55 Kg.Approx.	55 Kg.Approx.
External Dimensions (L. W. H.)	1005mm. 500mm. 530mm.	1005mm. 500mm. 530mm.

KLEIN SCHWEISSER MICRO PLASMA



Advantages of EPE inverter micro plasma & plasma welding -

- * 60 % power saving
- * Arc consistency
- * Stable arc
- * Longer arc length
- * No high frequency noise
- * Better weld quality
- * Higher reliability
- * Arc at low amperage
- * Higher arc energy density
- * Control arc diameter
- * Protected electrode
- * CNC/ROBOTIC interface

Applications -

- * Thin wire welding* Thermistor welding
- * Medical & electronic components welding
- * Pressure & electrical sensors
- * Bellows, switches & jewellery
- * Tube mill applications
- * Repairing of dies & mold