

#### **SALIENT FEATURES FOR INVERTER PLASMA CUTTER**

- ❑ IGBT based inverter power supply saves precious power .
- ❑ Advanced inverter design system delivers continuously adjustable constant current output.
- ❑ Constant O/P current even though the supply voltage varies within the range of +/- 2 %.
- ❑ High open circuit voltage (OCV) for good arc striking and for good quality cutting.
- ❑ Electronic pilot arc system ensures soft start and high consumable life.
- ❑ No load power consumption is very low (<0.1 KVA).
- ❑ Stepless setting for cutting current.
- ❑ Local or remote arc current setting.
- ❑ Actual cutting current can be seen on front panel digital display.
- ❑ High temperature protection with indication.
- ❑ Under voltage/over voltage/over current protection.
- ❑ Single phasing protection.
- ❑ Air pressure switch with indication for safe cutting.
- ❑ Logic fail protection (ensures IGBT safety).
- ❑ High efficiency more than 90 %.
- ❑ Good layout for easy servicing.
- ❑ Superior speed and cutting capacity.
- ❑ Cnc/Robotic machine interface option for automated control.
- ❑ Easy to use.
- ❑ Easy maneuverability in the workshop.

#### **TORCH**

- ❑ Light weight beating super heavy weight.
- ❑ Hand torch head 230 gms. Machine torch head 120gms.
- ❑ Spacer for easy operation making it user friendly as well as gives clear vision of marking to cut with high accuracy.
- ❑ Innovatively designed consumables ensure longer life.
- ❑ Circle cutting guide for cutting measured circles.
- ❑ High precision design ensuring longer torch life.

#### **ELECTRO-PLASMA EQUIPMENTS PVT. LTD.**

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THE LEADER IN INVERTER PLASMA CUTTING

MODEL	IPC-60	IPC-80
Input supply	415 V AC, 3 Phase, 50Hz.	415 V AC, 3 Phase, 50Hz.
Operating supply voltage range	370 V AC to 460 V AC.	370 V AC to 460 V AC.
Input power	10 KVA at 60 Amps. 6.6 KVA at 40 Amps.	14 KVA at 80 Amps. 10 KVA at 60 Amps.
Open circuit voltage	320 V DC to 350 V DC.	320 V DC to 350 V DC.
Cutting current range	20 Amps. DC to 60 Amps. DC.	25 Amps. DC to 80 Amps. DC.
Cutting current control	Stepless with fine control.	Stepless with fine control.
Duty cycle @ 40 deg.cel.Amb.	100 % at 40 Amps.	120 % at 60 Amps.
Pilot arc	80 % at 60 Amps.	80 % at 80 Amps.
Class of insulation	Electronic pilot arc.	Electronic pilot arc.
Cooling	H class.	H class.
Protection	Forced air cool.	Forced air cool.
IP-21.	IP-21.	IP-21.
Cutting capacity	15 mm.	20 mm.
SS clean cut	20 mm.	25 mm.
Max. Rough cut	75 Kg.	75 Kg.
Weight	785mm. 360mm. 840mm.	785mm. 360mm. 840mm.
External Dimensions (L. W. H.)	Clean, dry, oil free air	Clean, dry, oil free air
Gas supply	70 PSI (4.8 bar) @ 11CFM	70 PSI (4.8 bar) @ 11CFM
Flow pressure		

MODEL	IPC-100	IPC-130	IPC-160
Input supply	415 V AC, 3 Phase, 50Hz.	415 V AC, 3 Phase, 50Hz.	415 V AC, 3 Phase, 50Hz.
Operating supply voltage range	370 V AC to 460 V AC.	370 V AC to 460 V AC.	370 V AC to 460 V AC.
Input power	16 KVA at 100 Amps. 14 KVA at 80 Amps.	21 KVA at 130 Amps. 16 KVA at 100 Amps.	28 KVA at 160 Amps. 21 KVA at 130 Amps.
Open circuit voltage	320 V DC to 350 V DC.	320 V DC to 350 V DC.	320 V DC to 350 V DC.
Cutting current range	30 Amps. DC to 100 Amps. DC.	40 Amps. DC to 130 Amps. DC.	40 Amps. DC to 160 Amps. DC.
Cutting current control	Stepless with fine control.	Stepless with fine control.	Stepless with fine control.
Duty cycle @ 40 deg.cel.Amb.	100 % at 80 Amps.	100 % at 100 Amps.	100 % at 130 Amps.
Pilot arc	80 % at 100 Amps.	80 % at 130 Amps.	80 % at 160 Amps.
Class of insulation	Electronic pilot arc.	Electronic pilot arc.	Electronic pilot arc.
Cooling	H class.	H class.	H class.
Protection	Forced air cool.	Forced air cool.	Forced air cool.
IP-21.	IP-21.	IP-21.	IP-21.
Cutting capacity	35 mm.	45 mm.	55 mm.
SS clean cut	40 mm.	50 mm.	60 mm.
Max. Rough cut	75 Kg.	80 Kg.	160 Kg.
Weight	785mm. 360mm. 840mm.	785mm. 360mm. 840mm.	785mm. 660mm. 840mm.
External Dimensions (L. W. H.)	Clean, dry, oil free air	Clean, dry, oil free air	Clean, dry, oil free air
Gas supply	70 PSI (4.8 bar) @ 11CFM	80 PSI (5.44 bar) @ 11CFM	80 PSI (5.44 bar) @ 11CFM
Flow pressure			

MODEL	IPC-200	IPC-300
Input supply	415 V AC, 3 Phase, 50Hz.	415 V AC, 3 Phase, 50Hz.
Operating supply voltage range	370 V AC to 460 V AC.	370 V AC to 460 V AC.
Input power	32 KVA at 200 Amps.	50 KVA at 300 Amps.
Open circuit voltage	28 KVA at 160 Amps.	42 KVA at 240 Amps.
Open circuit voltage	320 V DC to 350 V DC.	320 V DC to 350 V DC.
Cutting current range	60 Amps. DC to 200 Amps. DC.	75 Amps. DC to 300 Amps. DC.
Cutting current control	Stepless with fine control.	Stepless with fine control.
Duty cycle @ 40 deg.cel.Amb.	100 % at 160 Amps.	100 % at 240 Amps.
Pilot arc	70 % at 200 Amps.	70 % at 300 Amps.
Class of insulation	Electronic pilot arc.	Electronic pilot arc.
Cooling	H class.	H class.
Protection	Forced air cool.	Forced air cool.
IP-21.	IP-21.	IP-21.
Cutting capacity	60 mm.	100 mm.
SS clean cut	75mm.	105mm.
Max. Rough cut	180 Kg.	270 Kg.
Weight	785mm. 660mm. 840mm.	785mm. 990mm. 840mm.
External Dimensions (L. W. H.)	Clean, dry, oil free air	Clean, dry, oil free air
Gas supply	80 PSI (5.44 bar) @ 11CFM	80 PSI (5.44 bar) @ 11CFM
Flow pressure		



**EPE TORCHES -**

- \* Longer life
- \* Light weight & operator comfort



**EPE Consumables -**

- \* Made on high precision CNC lathe
- \* best quality material
- Ensures
- \* Better consumable life & Excellent cut quality



**INVERTER PLASMA CUTTER**



**Advantages of EPE inverter technology -**

- \* 60 % power saving
- \* Better power factor ( above 0.9 )
- \* Longer parts life
- \* Lower operating cost
- \* Higher reliability
- \* CNC/ROBOTIC interface