

Inverter Plasma Cutting Machines



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

Model No: IPC-60, IPC-80, IPC-100

MODEL NO.	IPC-60	IPC-80	IPC-100
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	10 KVA at 60 Amps.	14 KVA at 80 Amps.	16 KVA at 100 Amps.
	6.6 KVA at 40 Amps.	10 KVA at 60 Amps.	14 KVA at 80 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	20 Amps. DC to 60 Amps. DC.	25 Amps. DC to 80 Amps. DC.	30 Amps. DC to 100 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 40 Amps. 90 % at 60 Amps.	100 % at 60 Amps. 90 % at 80 Amps.	100 % at 80 Amps. 90 % at 100 Amps.
Pilot arc	Electronic pilot arc.	Electronic pilot arc.	Electronic pilot arc.
Class of insulation	H class.	H class.	H class.
Cooling	Forced air cool.	Forced air cool.	Forced air cool.
Protection	IP-23.	IP-23.	IP-23.
Cutting capacity SS clean cut Max. Rough cut	15 mm. 20 mm.	20 mm. 25 mm.	30 mm. 40 mm.
Weight	40 Kg Approx.	40 Kg Approx.	40 Kg Approx.
External Dimensions (L. W. H.)	600mm. 260mm. 555mm.	600mm. 260mm. 555mm.	600mm. 260mm. 555mm.
Gas supply	Clean, dry, oil free air	Clean, dry, oil free air	Clean, dry, oil free air
Flow pressure	70 PSI (4.8 bar) @ 11CFM	70 PSI (4.8 bar) @ 11CFM	70 PSI (4.8 bar) @ 11CFM

Model No: IPC-130, IPC-160, IPC-200

MODEL NO.	IPC-130	IPC-160	IPC-200
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	21 KVA at 130 Amps. 16 KVA at 100 Amps.	28 KVA at 160 Amps. 21 KVA at 130 Amps.	32 KVA at 200 Amps. 28 KVA at 160 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	40 Amps. DC to 130 Amps. DC.	40 Amps. DC to 160 Amps. DC.	60 Amps. DC to 200 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 100 Amps. 80 % at 130 Amps.	100 % at 130 Amps. 80 % at 160 Amps.	100 % at 160 Amps. 70 % at 200 Amps.
Pilot arc	Electronic pilot arc.	Electronic pilot arc.	Electronic pilot arc.
Class of insulation	H class.	H class.	H class.
Cooling	Forced air cool.	Forced air cool.	Forced air cool.
Protection	IP-21.	IP-21.	IP-21.
Cutting capacity SS clean cut Max. Rough cut	45 mm. 50 mm.	55 mm. 60 mm.	60 mm. 75mm.
Weight	80 Kg.	160 Kg.	180 Kg.
External Dimensions (L. W. H.)	785mm. 360mm. 840mm.	785mm. 660mm. 840mm.	785mm. 660mm. 840mm.
Gas supply	Clean, dry, oil free air	Clean, dry, oil free air	Clean, dry, oil free air
Flow pressure	80 PSI (5.44 bar) @ 11CFM	80 PSI (5.44 bar) @ 11CFM	80 PSI (5.44 bar) @ 11CFM

Model No: IPC-300

MODEL NO.	IPC-130
Input supply	415 V AC, 3 Phase, 50Hz.
Operating supply voltage range	370 V AC to 460 V AC.
Input power	50 KVA at 300 Amps. 42 KVA at 240 Amps.
Open circuit voltage	320 V DC to 350 V DC.
Cutting current range	75 Amps. DC to 300 Amps. DC.
Cutting current control	Stepless with fine control.
Duty cycle @40 deg.cel.Amb	100 % at 240 Amps. 70 % at 300 Amps.
Pilot arc	Electronic pilot arc.
Class of insulation	H class.
Cooling	Forced air cool.
Protection	IP-21.
Cutting capacity 100 mm. 105mm.	45 mm. 50 mm.
Weight	270 Kg.
External Dimensions (L. W. H.)	785mm. 990mm. 840mm.
Gas supply	Clean, dry, oil free air
Flow pressure	80 PSI (5.44 bar) @ 11CFM

Special Machine Features

- 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 () 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 V). Stepless setting for cutting current.
- Local or remote arc current setting.
- Actual cutting current can be seen on front panel digital display.
- High temp 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.