

AIR PLASMA CUTTING MACHINES



Air Plasma - The Leader in Plasma Cutting Systems

The Electro Plasma name is synonymous with high-quality welding and our plasma cutting systems are no exception. From plasma cutting Technology to our patented safety indicators we add plenty of value features to its plasma cutting products, leading the industry in innovation. And our extended parts and labor warrantee is a guarantee that you'll get everything you'd expect from the welding experts.

- No more oxy / fuel for cutting all ferrous & non ferrous metal.
- Double the speed at half the cost.
- No heat effect zone, no distortion.
- No cumbersome fuel ignition, preheat flame adjustment.
- No preheat Time or oxygen adjustment required.

Model No: MPT-6, MPT-10, MPT-16

MODEL NO.	MPT-6	MPT-10	MPT-16
Primary voltage	380-440 V 3 phase 50 Hz	380-440V 3Phase 50 Hz	380-440 V 3phase 50 Hz
Secondary voltage	260-280 V	260-280 V	260-280 V
Line Current	18 Amp.	24 Amp.	32 Amp.
Arc current	40 Amp.	60 Amp.	80 Amp.
O. C. V (No load)	300-320 VDC	300-320 VDC	300-320 VDC
Power Rating	12.0 KVA	17.0 KVA	22.0 KVA
Insulation	F class	F class	F class
Duty cycle	100% at Full load current of 40 Amp.	100 % at Full load current of 60 Amp.	100 % at Full load current of 80 Amp.
Cutting Capacity For SS clean cut For SS Parting Cut	8mm 12mm	15mm 20mm	20mm 25mm

Model No: MPT-30, MPT-40, MPT-50

MODEL NO.	MPT-30	MPT-40	MPT-50
Primary Voltage	380 - 440V 3Phase-50 Hz	380-440 V 3 Phase-50Hz	380-440 V 3Phase-50 Hz
Secondary Voltage	260-280V	260-280V	260-280 V
Line Current	44 Amp.	60 Amp.	63 Amp.
Arc Current	100 Amp.	135 Amp.	155 Amp.
O.C.V (No load)	300-320 VDC	300-320 VDC	300-320 VDC
Power Rating	31.0 KVA	42.0 KVA	44.0 KVA
Insulation	F class	F class	F class
Duty cycle	100% at Full load current of 100 Amp.	100% at Full load current of 135 Amp.	100% at Full load current of 155 Amp.
Cutting Capacity for SS Clean Cut for SS Parting Cut	35mm 40mm	45mm 50mm	55mm 60mm

Model No: MPT-50(W) STEP, MPT-75(W) STEP, MPT-100(W) STEP

MODEL NO.	MPT-50(W) STEP	MPT-75(W) STEP	MPT-100(W) STEP
Primary Voltage	380-440 V 3Phase- 50Hz	380-440 V 3Phase-50Hz	380-440 V 3Phase-50Hz
Secondary Voltage	260-280 V	260-280 V	260-280 V
Line Current	70 Amp.	90 Amp.	120 Amp.
Arc Current	100 Amp. 200 Amp.	125 Amp. 250 Amp.	150 Amp. 300 Amp.
O.C.V (No load)	300-320 VDC	300-320 VDC	300-320 VDC
Power rating	49.0 KVA	63.0 KVA	84.0 KVA
Insulation	F class	F class	F class
Duty Cycle	100% at Full load current of 200 Amp.	100% of Full load current of 250 Amp.	100% at Full load current of 300 Amp.
Cutting Capacity For SS Clean Cut For SS Parting Cut	55mm 60mm	75mm 80mm	100mm 105mm

Special Machine Features

- The cutting process is carried out by using shop floor compressed air. Thus the process becomes cheap and flexible. The unique pilot arc system ensures perfect arc start on painted and rusted surface.
- An electro-pneumatic protection cuts the arc in case of insufficient air supply adding to the safety of the machine and torch.
- Specially designed power source for 100% duty cycle.
- Quality epoxy powder coating for longer lasting effect.

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. 80 % at 60 Amps.	100 % at 60 Amps. 80 % at 80 Amps.	100 % at 80 Amps. 80 % 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-21.	IP-21.	IP-21.
Cutting capacity SS clean cut Max. Rough cut	15 mm. 20 mm.	20 mm. 25 mm.	35 mm. 40 mm.
Weight	75 Kg.	75 Kg.	75 Kg.
External Dimensions (L. W. H.)	785mm. 360mm. 840mm.	785mm. 360mm. 840mm.	785mm. 360mm. 840mm.
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.	28 KVA at 160 Amps.	32 KVA at 200 Amps.
	16 KVA at 100 Amps.	21 KVA at 130 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.

Inverter Welding Machines



Inverter technology is a voltage conversion system which applied to welding makes compact power sources with low energy consumption. Inverter based constant direct current power sources use the latest knowledge of Electronics technology applied to welding.

Totally Indigenous machine using IGBT, suitable for Indian working condition **(TEMP, HUMIDITY, DUST AND VOLTAGE FLUCTUATIONS)**

- Inverter based welding machine saves energy upto 60%.
- High quality integrated electronic power source using IGBT technology.
- Setting of post gas timing from 2 second to 20 second.
- Design to meet highest standard for safety & reliability.

Klein Schweisser 150, 150 TIG

Details	Klein Schweisser 150	Klein Schweisser 150 TIG
Input supply	220 volts A/C, 1 phase 50 HZ	220 volts A/C, 1 phase, 50 HZ
Operating supply voltage range	190 volts A/C to 250 Volts A/C	190 Volts A/C to 250 volts A/C
Input Power		
At 70 % duty cycle	3.9 KVA	3.9 KVA (MMA), 3.1 KVA (Tig)
At 100% duty cycle	3.4 KVA	3.4 KVA (MMA), 2.3 KVA (Tig)
Current Range	7 AMPS to 150 AMPS	7 AMPS to 150 AMPS
Open circuit Voltage		
At 190 volts I/P	58 volts DC	58 volts DC
At 220 volts I/P	66 volts DC	66 volts DC
At 250 volts I/P	75 volts DC	75 volts DC
Class of insulation	'H' class	'H' class
Cooling	Forced air cool with FOD sys.	Forced air cooled with FOD sys.
Hand welding current		
At 70 % duty cycle	150 volts Amps DC (MMA)	150 Amps DC (Tig)
At 100% duty cycle	120 Amps DC (MMA)	120 Amps. DC (Tig)
Dimensions(L. W. H.)	545 mm. 210 mm. 385 mm.	545 mm. 210 mm. 440 mm
Weight	20 kg	28kg

Klein Schweisser 400, 400 TIG

Details	Klein Schweisser 400	Klein Schweisser 400 TIG
Input supply	415 volts 3 phase 50 HZ	415 Volts A/C 3 Phase, 50Hz
Operating supply voltage range	370 volts A/C to 460 volts A/C	370 Volts A/C to 460Volts A/C
Input Power		
At 70% duty cycle	10.5 KVA	10.5 KVA
At 100% duty cycle	8 KVA	7.5 KVA
Current Range	7 Amps to 400 Amps	7Amps to 400Amps
Open circuit Voltage		
At 370 volts I/P	72 volts DC	72 volts DC
At 415 volts I/P	80 volts DC	80 volts DC
At 460 volts I/P	90 volts DC	90 volts DC
Class of insulation	'H' class	'H' class
Cooling	Forced air cooled with FOD sys.	Forced air cooled with FOD sys.
Hand welding current		
At 70 % duty cycle	400 Amps DC(MMA)	400 Amps (TIG)
At 100% duty cycle	320 Amps DC(MMA)	300 Amps (TIG)
Dimensions (L. W. H)	785mm. 360mm. 685mm.	770mm. 300mm. 740mm
Weight	95kg	80kg

Klein Schweisser i 160, i 220

Model	Klein Schweisser i 160	Klein Schweisser i 220
Input supply	220 Volts A/C 1 Phase, 50Hz	220 Volts A/C 1 Phase, 50Hz
Operating supply voltage range	190 Volts A/C to 250Volts A/C	190 Volts A/C to 250Volts A/C
Input Power		
At 70% duty cycle	3.8 KVA	6 KVA
At 100% duty cycle	2.3 KVA	3.8 KVA
Current Range	7Amps to 160Amps	7Amps to 220Amps
Open circuit Voltage		
At 190 volts I/P	58 volts DC	58 volts DC
At 220 volts I/P	66 volts DC	66 volts DC
At 250 volts I/P	75 volts DC	75 volts DC
Class of insulation	'H' class	'H' class
Cooling	Forced Air Cooled with FOD sys.	Forced Air Cooled with FOD sys.
Hand welding current		
At 70 % duty cycle	160Amps (MMA)	220Amps (MMA)
At 100% duty cycle	120Amps (MMA)	170Amps (MMA)
Dimensions (L. W. H)	490mm. 200mm. 240mm	550mm. 200mm. 240mm
Weight	12 Kgs.	15 Kgs.

Klein Schweisser 400 MMA/MIG/MAG, 400 MIG/MAG

Model	Klein Schweisser 400 MMA/MIG/MAG	Klein Schweisser 400 MIG/MAG
Input supply	415 volts A/C, 3 phase, 50 Hz	415 volts A/C, 3 phase, 50 Hz
Operating supply voltage range	370 volts A/C to 460 volts A/C	370 volts to 460 volts A/C
Current range, MMA	7 amps. DC to 400 amps. DC	-
Current range, Mig	50 Amps. DC to 400 Amps. DC	50 Amps. DC to 400 Amps, DC
Voltage range. Mig	15 volts DC to 36 volts DC	15 volts DC to 36 volts DC
Open Circuit Voltage		
At 370 volts I/P	72 volts DC	72 volts DC
At 415 volts I/P	80 volts DC	80 volts DC
At 460 volts I/P	90 volts DC	90 volts DC
Class of insulation	'H' class	'H' class
Cooling	Forced air cool with FOD sys.	Forced air cooled with FOD sys.
Hand welding current		
At 70 % duty cycle	400 Amps. DC	400 Amps. DC
At 100% duty cycle	320 Amps. DC	320 Amps. DC
Dimensions (L. W. H.)	860mm. 410mm. 880 mm.	860mm. 410mm. 880 mm.
Weight	145 kg.	145 kg.
Input Power, MMA		
At 70% duty cycle	10.5 KVA	
At 100% duty cycle	6.9 KVA	

Klein Schweisser 160 i TIG, 220 i TIG, 400 i TIG

Model	Klein Schweisser 160 i TIG	Klein Schweisser 220 i TIG	Klein Schweisser 400 i TIG
Input supply	220 Volts A/C 1 Phase, 50Hz	220 Volts A/C 1 Phase, 50Hz	415 Volts A/C 3 Phase, 50Hz
Operating supply voltage range	190 Volts A/C to 250Volts A/C	190 Volts A/C to 250Volts A/C	370 Volts A/C to 460Volts A/C
Input Power			
At 70% duty cycle	3.8 KVA	6 KVA	10.5 KVA
At 100% duty cycle	2.3 KVA	3.8 KVA	7.5 KVA
Arc Ignition	Built in Electronic High Frequency	Built in Electronic High Frequency	Built in Electronic High Frequency
Current Range	7Amps to 160Amps	7Amps to 220Amps	7Amps to 400Amps
Open circuit Voltage			
At 190 volts I/P	58 volts DC	58 volts DC	72 Volts DC
At 220 volts I/P	66 volts DC	66 volts DC	80 Volts DC
At 250 volts I/P	75 volts DC	75 volts DC	90 Volts DC
Class of insulation	'H' class	'H' class	'H' class
Cooling	Forced Air Cooled.	Forced Air Cooled.	Forced Air Cooled.
Hand welding current			
At 70 % duty cycle	160Amps (MMA)	220Amps (MMA)	400Amps (TIG)
At 100% duty cycle	120Amps (MMA)	170Amps (MMA)	300Amps (TIG)
Dimensions (L. W. H)	630mm . 180mm . 310mm	630mm . 185mm . 340mm	740mm . 310mm . 670mm
Weight	23Kgs.	22Kgs.	65Kgs.

Inverter Welding Machines

Inverter technology is a voltage conversion system which applied to welding makes compact power sources with low energy consumption. Inverter based constant direct current power sources use the latest knowledge of Electronics technology applied to welding.

Totally Indigenous machine using IGBT, suitable for Indian working condition **(TEMP, HUMIDITY, DUST AND VOLTAGE FLUCTUATIONS)**

The advantages of using the inverter machines are:

- Inverter based welding machine saves energy up to 60% .
- High quality integrated electronic power source using IGBT technology
- Setting of post gas timing from 2 second to 20 second.
- Design to meet highest standard for safety & reliability.

Klein Schweisser 400 i

Model	Klein Schweisser 400 i
Input supply	415 Volts A/C 3 Phase, 50Hz
Operating supply voltage range	370 Volts A/C to 460Volts A/C
Input Power	
At 70% duty cycle	10.5 KVA
At 100% duty cycle	7.5 KVA
Arc Ignition	N. A.
Current Range	7Amps to 400Amps
Open circuit Voltage	
At 370 volts I/P	72 Volts DC
At 415 volts I/P	80 Volts DC
At 460 volts I/P	90 Volts DC
Class of insulation	'H' class
Cooling	Forced Air Cooled.
Hand welding current	
At 70 % duty cycle	400Amps (TIG)
At 100% duty cycle	300Amps (TIG)
Dimensions (L. W. H)	740mm . 310mm . 470mm
Weight	55Kgs.

Micro Plasma Welding Machines



- Superior Welding Quality With IGBT Based Inverter Power Source Works on Single Phase.
- Electronic High Frequency. Start.
- High Open Circuit Voltage for Good ARC Striking and for Good Welding Quality
- Low Gas, No Water & High Temp. protection
- Up Slope/Down Slope & Pulsing On/Off Selectivity.
- Stepless Setting For Welding Current as Well as for Pilot.
- Welding Current Can be Set Locally or With Remote Control
- Actual Welding Current & Pilot Arc Current can be Seen on Front Panel Digital Display

Klein Schweisser 50 Micro Plasma

MODEL NO.	Klein Schweisser 50 Micro Plasma
Power source	IGBT Based Inverter Supply 1 phase 50 HZ
Input Supply	220 Volts A/C , 1 Phase, 50 Hz
Main ARC Open Circuit Voltage	100 VDC. Max
Main ARC Current	0.5 Amp to 50 Amps. DC
Pilot ARC Open Circuit Voltage	< 100 Volts DC
Pilot ARC Current	1 Amp to 5 Amps. DC.
ARC Starter	Electronic High Frequency
Class of Insulation	H Class
Cooling	Forced Air Cooled With Fod System
Protection	IP 21
Pilot Gas Supply	Argon, 25 Psi at 0.1 to 1.0 lit/min
Shielding Gas Supply	25 Psi at 1 to 8 lit/min pure Argon or Various mixtures as determined by desired Arc characteristics & metallurgy of the work material

Micro Plasma Welding Torch

Details	Micro Plasma Welding Torch
Main Current Capacity	1 to 25 Amps
Pilot Arc Current Capacity	1 to 5 Amps
Tungsten Size	1.00 mm to 2.4 mm dia
Nozzle Size	1.0mm, 1.2mm 1. mm 1.8mm dia
Cooling	Water Cool
Cable Length	3 meters

Special Machine Features

- Superior Welding Quality With IGBT Based Inverter Power Source Works on Single Phase.
- Electronic High Frequency. Start.
- High Open Circuit Voltage for Good ARC Striking and for Good Welding Quality
- Low Gas, No Water & High Temp. protection
- Up Slope/Down Slope & Pulsing On/Off Selectivity. Stepless Setting For Welding Current as Well as for Pilot.
- Welding Current Can be Set Locally or With Remote Control
- Actual Welding Current & Pilot Arc Current can be Seen on Front Panel Digital Display
- Equipped With pre Flow, Post Flow, up Slope, Down Slope Base Current as well as Pulsing Current Controls
- Logic Fail Protection (Ensures IGBT Safety.)
- High Efficiency More than 92%
- AAT Mode(Auto Arc Transfer) Facility.
- 2T/4T Mode Selectivity.
- Weld Time Set Facility on Request

Plasma Welding Machines



- 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 () 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 V).
- 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.

Klein Schweisser 150 Plasma

Details	Klein Schweisser 150 Plasma
Input supply	220 V AC, 1 Phase, 50Hz.
Operating supply voltage range	180 V AC to 250 V AC.
Input Power	4.8 KVA at 150 Amps.
Open circuit voltage (Main arc)	95 V DC to 105 V DC.
Welding current range	1.0 Amps. DC to 150 Amps. DC.
Welding current control	Stepless with fine control.
Base current	5 Amps. DC to 150 Amps. DC.
Up slope	0 to 10 sec.
Down slope	0 to 10 sec.
Pulse frequency	1 Hz to 1000 Hz System
Pulse on time	10 % to 90 %
Pre flow	0 To 10 sec.
Post flow	0 To 10 sec.
Arc starter	Electronic pilot arc.
Open circuit voltage (Pilot arc)	100 V DC to 120 V DC.
Pilot arc current	2.0 Amps. DC to 5.0 Amps. DC.
Duty cycle @ 40 deg.cel.Amb.	100 % at 120 Amps.
Class of insulation	H class.
Cooling	Forced air cool.
Protection	IP-21.
Pilot gas supply	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.
Weight	55 Kg. Approx.

External Dimensions (L. W. H.)	1005mm. 500mm. 530mm.
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Klein Schweisser 400 Plasma

Details	Klein Schweisser 400 Plasma
Input supply	415 V AC, 1 Phase, 50Hz.
Operating supply voltage range	370 V AC to 460 V AC.
Input power	10.5 KVA at 400 Amps.
Open circuit voltage (Main arc)	95 V DC to 105 V DC.
Welding current range	5.0 Amps. DC to 400 Amps. DC.
Welding current control	Stepless with fine control.
Base current	10 Amps. DC to 400 Amps. DC.
Up slope	0 to 10 sec.
Down slope	0 to 10 sec.
Pulse frequency	1 Hz to 1000 Hz
Pulse on time	10 % to 90 %
Pre flow	0 To 10 sec.
Post flow	0 To 10 sec.
Arc starter	Electronic pilot arc.
Open circuit voltage (Pilot arc)	100 V DC to 120 V DC.
Pilot arc current	2.0 Amps. DC to 5.0 Amps. DC.
Duty cycle @ 40 deg.cel.Amb.	100 % at 250 Amps.
Class of insulation	H class.
Cooling	Forced air cool.
Protection	IP-21.
Pilot gas supply	Argon, 25 PSI at 0.5-5 ltrs./min.

Shield gas supply	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.
External Dimensions (L. W. H.)	1005mm. 500mm. 530mm.

Turbo Arc 600 i 10 Plasma Weld

Details	Turbo Arc 600 i 10 Plasma Weld
Input supply	415 Volts, 3 Phase, 50Hz.
Operating supply voltage range	370 Volts AC to 460 V AC.
Input power	22 KVA at full load.
Pilot arc current range	5 Amps. DC to 20 Amps. DC.
Pilot arc current control	In steps of 0.01 Amps. (digital control).
Main arc open circuit voltage	90 Volts DC.
Pre flow	0 To 10 sec (In steps of 0.1 secs.).
Post flow	0 To 30 sec (In steps of 0.1 secs.).
Up slope timing	0 To 10 sec (In steps of 0.1 secs.).
Down slope timing	0 To 10 sec (In steps of 0.1 secs.).
Hot start	0 To 100% (In steps of 0.1%).
Soft start	0 To 100% (In steps of 0.1%).
Pulse frequency	0 To 1000 Hz (In steps of 0.1 Hz).
Pulse frequency type	Square wave / Sin wave / Triangular wave (with start & stop delay).
Base current	0 To 600 Amps (In steps of 0.01 Amps).
Pulse on time	0 To 100% (In steps of 0.1%).
Mode	Manual (2T/4T) / Semi auto / Fully auto / Direct mode / Test mode.
CPU	Modular Din rail type (Beckhoff Germany).
Bus Terminals	Modular fieldbus system (Beckhoff Germany).

Communication	ETHER CAT (Beckhoff Germany).
Remote console	Colour display with touch screen control.
Class of Insulation	H class.
Duty cycle	70%.
Protection	IP - 21.
Cooling	Forced air cooled.
Pilot Gas	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 metal.

Special Machine Features

- 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 () 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 V).
- 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 temp 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.

Air Plasma Torch & Consumables



- Specially designed to operate in most sophisticated conditions as well
- to withstand most rough & trying conditions.
- Light weight beating super heavy weights.
- Hand Torch Head 230 gms. Machine Torch Head 120 gms.
- Design and Material : Components strategically designed for superior cooling, resulting in better life.
- Specially test and tried material for longer life.
- Spacer for easy operation making it user friendly, as well as giving clear vision of dot marks to cut with high accuracy.
- The innovatively designed consumables ensure longer life.

Air Plasma Consumables

EPE is no way connected to below mentioned parts. Reference to below mentioned brands & part numbers are for your convenience only. EPE is not authorized by below given brands to sell their consumables. All the consumables displayed are made by EPE & are simply the replacement parts.

DINSE	PX 101 Electrode - HF Dix-3-6-101 Nozzle Dix-2-6-112, Dix-2-6-114, Dix-2-6-116
ESAB	LPH-80 Electrode Part No. 462060155, Nozzle Part No. 462060155 PT-17 Electrode Part No. 20056, Nozzle Part No. 19918 PT-20 AM Electrode Part No. 21150, Nozzle Part No. 21328 - 100Amps, Part No. 21329 - 70Amps, Part No. 21330 - 50Amps PT-27 Electrode Part No. 33366, Nozzle Part No. 33418 -80Amps PT-31 Electrode Part No. 20862, Nozzle Part No. 20861A -50Amps PT-32 Electrode Part No. 0558001969 Nozzle Part No. 0558002618 - 50 to 70Amps Part No. 0558002837 - 90Amps PLA-101 Electrode, Nozzle
EWAC	PLA - Cut Electrode - Placut 101 Nozzle Placut 101
HYPERTHERM	POWERMAX 1250 Retaining Cap Part No. 120928 Swirl ring Part No. 120925 Shield Part No. 120930 Electrode (40/60/80Amps) Part No. 120926 Nozzle 40Amps Part No. 120932 Nozzle 80Amps Part No. 120927 POWERMAX 1650 Retaining Cap Part No. 220048 Swirl Ring Part No. 220051 Shield Part No. 220047 Shield Part No. 220065 Electrode 100Amps Part No. 220037 Nozzle 100Amps Part No. 220011 HPR 130 Electrode Part No. 220181

	Nozzle Part No. 220182 Shield Part No. 220183
MILLER	Electrode Part No. 192048 , Nozzle Part No. 192056
PANASONIC	Electrode Part No. 02033 Nozzle Part No. 00812 0.8mm , Part No. 01045 1.0mm Part No. 01103 1.1mm , Part No. 01305 1.3mm Part No. 01507 1.5mm , Part No. 01809 1.8mm
TRAFIMET	Torch Model A 141 Electrode Part No. PRO 101 , Nozzle Part No. PDO 101

Model No: MPT-10, MPT-16, MPT-30, MPT-40

DETAILS	MPT-10	MPT-16	MPT-30	MPT-40
RATING	65 Amp. 3 phase 50 Hz	85 Amp.	120 Amp.	150 Amp.
COOLING	Air Cooled	Air Cooled	Air Cooled	Air Cooled
AIR PRESSURE	50 PSI at 11 CFM	60 PSI at 11 CFM	70 PSI at 11CFM	80 PSI at 11 CFM
DUTY CYCLE Machine (operated)	80%	80%	80%	80%
CAPACITY For SS clean cut For SS Parting Cut	15mm 20mm	20mm 25mm	35mm 40mm	45mm 50mm
LENGTH OF CABLE	7.5 mtr	7.5 mtr	7.5 mtr	7.5 mtr

Model No: MPT-50, MPT-50(W), MPT-75(W), MPT-100(100)

DETAILS	MPT-50	MPT-50 (W)	MPT-75 (W)	MPT-100 (100)
RATING	175 Amp.	220 Amp.	270 Amp.	350 Ampt.
COOLING	Air Cooled	Water Cooled	Water Cooled	Water Cooled
AIR PRESSURE	100 PSI at 11 CFM	70 PSI at 9 CFM	70 PSI at 9 CFM	70 PSI at 9 CFM
DUTY CYCLE Machine (operated)	80%	100%	100%	100%
CAPACITY For SS clean cut For SS Parting Cut	55mm 60mm	55mm 60mm	75mm 80mm	100mm 105mm
LENGTH OF CABLE	7.5 mtr	7.5 mtr	7.5 mtr	7.5 mtr

Air Plasma spares at unbelievable price

We are in this business from 1989. We have a team of qualified engineers who are continuously working to develop & improve the quality of plasma consumables. At EPE we have seen the potential of business of replacement parts for plasma torches & in order to give the better quality we study the original part then if we required we modify the design to improve its performance. We always use the best material available & all the parts are made on CNC turning centers. We have a complete machine shop with advanced CNC controlled machines. The manufacturing process is carefully monitored in order to maintain the quality. We have developed special gauges to check the dimensional accuracy & all the parts are checked & controlled at 100% inspection. We also use some special tools which we have designed to suit our application which ensures the best results. At EPE we are giving the replacement parts for :-

- DINSE
- ESAB
- HYPERTHERM
- MILLER
- PANASONIC

At EPE we are continuously working to develop the new plasma consumables as per the market requirements, so for any of your requirement for plasma consumables other than the above mentioned brands please feel free to contact us.

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