



Experts In Plasma Cutting & Welding EQPTS.....



Conserve Electricity by Using Inverter IGBT EQPTS.

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INVERTER BASED AIR PLASMA CUTTING MACHINE



FEATURES :

- Smooth cutting longer life for consumables.
- Even, Mild Steel cutting is quite economical, because of longevity of consumables.
- Double stage of Air Filtration unit, i.e., 3 kg Air pressure for RAPID Pilot Arc & 5 kg Air Pressure for effective cutting & to blow off molten metal.
- Superior cutting quality owing to better cooling system.

TECHNICAL SPECIFICATIONS:

Duty cycle	TP - 30(I)	TP - 40(I)	TP - 60(I)	TP - 70(I)	TP - 100(I)	TP - 160(I)
Input Voltage	230+/-10%	230+/-10%	415+/-10%	415+/-10%	415+/-10%	415+/-10%
Rated Input (KVA)	3.5	4.8	7.9	9.5	15	30
Output Current A	10-30	10-40	20-60	20-70	20-100	20-160
Duty Cycle % at max Op Current	60	60	60	100	100	60
Insulation	B	B	B	B	B	B
Max Cutting thickness(mm)	6	10	20	25	30	50
No-load voltage	230	230	236	240	270	275
Rated output voltage	92	96	104	108	120	144
Weight (kg) Approx	8	8	19	21	28	53

We Reserve the Right to Change / Amend Specifications without Prior Notice



SPARES & CONSUMABLES OF PLASMA CUTTING AND WELDING MACHINES

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DIODE BASED AIR PLASMA CUTTING MACHINE



PROCESS :

Air when heated upto 30,000, degree F under goes ionic changes & reaches the fourth state of matter, called plasma. Instead of Expensive argon or nitrogen. We use only compressed air for plasma formation. Hence it is called Air Plasma.

APPLICATION :

Air plasma can be used to cut following matels : Mild steel, Carbon & Alloy Steel, Aluminium & its Alloys, Copper, Bronze, Manganese Steel & Special Alloys etc....

THE BENEFITS OF PLASMA ARC CUTTING :

Plasma ARC cutting is an excellent choice for most cutting applications it is practically well suited for applications where speed and excellent cut quality are important. Because of the intense heat of the Plasma ARC, around 30,000 F, compared to 5,700 F with gases used for Oxy-Fuel torches, the cut is clean with little or no dross.

TECHNICAL SPECIFICATIONS:

Model	Primary Voltage	Secondary Voltage	ARC Current	Power Rating	Insulation	Duty cycle	Clean cut	Parting cut
MPT-6	380-440 V	260-280V	40 Amps.	6 KW	"F" Class	60%	6MM	10MM
MPT-10	380-440 V	260-280V	60 Amps.	10 KW	"F" Class	60%	10MM	15MM
MPT-16	380-440 V	260-280V	80 Amps.	18 KW	"F" Class	60%	20MM	25MM
MPT-30	380-440 V	260-280V	100 Amps.	26 KW	"F" Class	60%	30MM	35MM
MPT-40	380-440 V	260-280V	150 Amps.	30 KW	"F" Class	60%	35MM	40MM
MPT-50	380-440 V	260-280V	180 Amps.	40 KW	"F" Class	60%	40MM	50MM
MPT-60	380-440 V	260-280V	200 Amps.	50 KW	"F" Class	60%	50MM	60MM
MPT-80	380-440 V	260-280V	250 Amps.	65 KW	"F" Class	60%	70MM	80MM
MPT-100	380-440 V	260-280V	500 Amps.	115 KW	"F" Class	60%	100MM	110MM

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INVERTER BASED AC/DC TIG



DESCRIPTION :

- The machine can be used as DC TIG welding and DC MMA welding
- It is an IGBT Inverter technology. Inverter frequency reaches to 2 5 KHz. So, the machine works with fast response, stable arc and less spatters.
- It is equipped with lots of protection, such as prevention from current shock, protection against phase lack, over current, overheat, etc.
- It is with high automatic compensation against unstable electricity, high efficiency and energy saving, and it is convenient for operation under various conditions.

Technical Specifications:

MODEL	AC/DC 200	AC/DC 250	AC/DC 315
Input Voltage	230+/-10%	415+/-10%	415+/-10%
Rated Input (KVA)	4.5	6.3	8.9
Output Current A	20-200	20-250	20-315
No-load voltage (V)	56	54	45
Duty Cycle (%)	60	60	60
Are-stating	HF	HF	HF
Insulation class	B	B	B
Power Factor	0.93	0.93	0.93
Weight (kg) Approx	32	38	38
Pre-flow (S)	0-2	0-2	0-2
Clean Width (%)	20-80	20-80	20-80
Down-slope Time (S)	0-5	0-5	0-5
Post Gas (S)	2-10	2-10	2-10
Ac Max. Welding Thickness with AC (mm)	3	5	8

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TIG / MMAW WELDING MACHINE



DESCRIPTION :

- Advanced technology and IGBT power switch.
- Production against surge in input supply.
- High frequency to generate arc with high voltage, outstanding arc generating performance, high welding penetration.
- High power utilization, low power consumption, upto 50% power saving.
- Wide work voltage range, strong ability in adapting to power grid.
- It can be used for welding Stainless Steel, Copper, Carbon Steel and other non ferrous metals.
- Applicable for the metal processing industries such as ship making, chemical, boiler, Medical care, hardware, environmental protection and decoration etc.
- With manual arc welding function, it provides complete welding with different materials.

Technical Specifications:

Model	TIG160A	TIG180A	TIG200A	TIG250A	TIG315A	TIG400A
Input Voltage	230+/-10%	230+/-10%	415+/-10%	230+/-10%	230+/-10%	415+/-10%
Rated Input (KVA)	3.2	3.9	6.3	3.9	4.5	9
No-load voltage(V)	43	56	54	54	54	54
Output Current A	10-160	10-180	20-250	10-180	10-200	5-315
Duty Cycle %	60	60	60	60	60	60
Are-stating	HF	HF	HF	HF	HF	HF
Power Factor	0.93	0.93	0.93	0.93	0.93	0.93
Insulation class	B	B	B	B	B	B
Weight (kg) Approx	8	8	19	8	15	32

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INVERTER MANUAL METAL ARC (MMAW)



- Electric ARC is stable, splash is less, and the welding is perfect.
- Its dynamic characteristic is perfect and response is rapid, and it can be used for welding from all positions.
- The ARC current can be freely adjusted.
- ARC can be ignited easily with stable current and even at low current.
- Safety and reliability are ensured with over-current & overheat protection.

TECHNICAL SPECIFICATIONS:

MODEL	HM250	HM315	HM400	HM500
Input Voltage (V)	415+/-10%	415+/-10%	415+/-10%	415+/-10%
Rated Input (KVA)	9.4	13	17	25
Output Current (A)	20-250	20-315	30-400	40-500
Rated Output Voltage (V)	30	32.6	36	40
No-load voltage (V)	64	80	80	80
Duty Cycle (%)	60	60	60	60
Power Factor	0.93	0.93	0.93	0.93
Insulation Class	F	F	F	F
Weight (kg) Approx	19	40	42	53

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INVERTER MIG / MAG / MMAW M/C

- Perfect welding quality and nice welding line are achieved. Electric ARC is improved by using special reactors.
- High ratio of arc-igniting i.e. 100% ratio of ARC igniting is achieved by using special circuit of arc igniting.
- Splash is considerably reduced by using dynamic welding characteristic control circuit.
- Area influenced by heating is smaller, so welding distortion is minimal.

TECHNICAL SPECIFICATIONS:

MODEL	HC350	HC500
Input Voltage (V)	415+/-10%	415+/-10%
Rated Input (KVA)	14	24
Output Current (A)	80-350	100-500
Rated Output Voltage (V)	18-32	19-39
Duty Cycle (%)	60	60
Power Factor	0.93	0.93
Insulation Class	F	F
Weight (kg) Approx	42	53
Suitable Wire Size (mm)	01.0,01.2	01.0,01.6

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