

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.

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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.