

## INVERTERISED MIG / MAG (CO<sub>2</sub>) WELDING MACHINES

The reliable power saving Inverterised Welding Rectifiers. A quality product from the house of high technology. Specially designed to meet your welding requirements. The machines are built to work under the extreme industrial/ field conditions. All products are designed, manufactured & tested under one roof to ensure the quality.



### FEATURES :

- IGBT - Inverterised Power Source with closed loop feedback control enables remote control of welding current and voltage.
- Arc conditioned feedback system ensures Constant arc length, eliminating need for Highly skilled welder.
- Instant Arc Starting and stopping controls.
- Servo-controlled wire feeder ensures constant & uniform feeding of wire.
- All position welding, high deposition rate with Metals such as mild steel, stainless steel, Carbon Steel, Aluminium and their alloys with proper gases and accessories.
- Preflow of shielding gas interlock, 2T/4T functions with crator current control which eliminates defects like cracks, gas entrapments etc.
- Protection of power source against under voltage, over voltage, single phasing, thermal overheating, Short circuiting of output terminals etc. with annuciation.
- OPTIONAL FEATURES SUCH AS pulsing, pulse duration selection, pulse frequency selection etc. applied to SYNERGIC MIG operation can be incorporated on request.
- OPTION FOR CONSTANT CURRENT / CONSTANT VOLTAGE POWER ON REQUEST.
- Microcontroller based models.

### ADVANTAGE & BENEFITS :

- Most reliable, least maintenance.
- Maximum power saving (Upto 40%).

## TECHNICAL SPECIFICATIONS

MODELS (POWER SOURCES)	ICP - 300	ICP - 400	ICP - 600	ICP - 800
INPUT SUPPLY VOLTAGE	3ph,415V.±15%,50hz			
MAX. WELDING CURRENT (A)	300	400	600	800
OPEN CIRCUIT VOLTAGE (V)	36	54	68	70
VOLTAGE CONTROL RANGE	STEPLESS UPTO OCV			
MAX. WELDING CURRENT (A) 60% DUTY CYCLE 100% DUTY CYCLE	300 231	400 308	600 462	800 616
INSULATION CLASS	H	H	H	H
COOLING	FORCED AIR	FORCED AIR	FORCED AIR	FORCED AIR
PROTECTION ENCLOSURE	IP 23	IP 23	IP 23	IP 23
DIMENSIONS (W X D X H) mm	300 X 630 X 585	400 X 700 X 450	500 X 750 X 450	500 X 800 X 500
WEIGHT (KGS.)	45	55	80	100
<b>B WIRE FEEDER</b>	<b>2/4 ROLLS QUICK RELEASE TYPE</b>		<b>2/4 ROLLS QUICK RELEASE TYPE</b>	
WIRE DIA (mm) SS, MS & AL	0.8 TO 1.2 mm		0.8 TO 2.4 mm	
WIRE DRIVE MOTOR	PERMANENT MAGNET DC	PAN CAKE TYPE	PAN CAKE TYPE	
CONTROL	SERVO CONTROL		SERVO CONTROL	
CONTROL TO THE WIRE FEEDER	THROUGH THE POWER SOURCE		THROUGH THE POWER SOURCE	
WIRE FEED RATE METERS / MINUTE	1 TO 19.0 (UPTO 26 ON REQUEST)		1 TO 19.0 (UPTO 26 ON REQUEST)	
<b>C TORCHES</b>	<b>TDG - 300</b>	<b>TDG - 400</b>	<b>TDG - 600</b>	<b>TDG - 800</b>
RATED CURRENT CAPACITY AT 60% DUTY CYCLE, FOR CO <sub>2</sub>	300	400	600	800
FOR MIG	231	300	500	600
COOLING	GAS	GAS	WATER	WATER
TORCH CABLE LENGTH	3 MTRS.	3 MTRS.	5 MTRS.	5 MTRS.

### OPTIONAL ACCESSORIES :

- 1) Pressure regulator with flow meter.
- 2) CO<sub>2</sub> gas preheater.
- 3) Gas hose 5 meters length.
- 4) Earth / Ground cable 5 meters length with clamp.

**NOTE :** These power sources are rated for sub-merged Arc welding applications.

**OTHER PRODUCTS:** LIGHT DUTY INVERTORISED WELDING RECTIFIERS, TIG WELDING MACHINES WITH BUILT IN HIGH FREQUENCY, AC / DC TIG WELDING MACHINES, CC / CV WELDING MACHINES, MIG / MAG (CO<sub>2</sub>) WELDING MACHINES & ENTIRE RANGE OF AIR PLASMA CUTTING MACHINES.



### TECHNOCRATS PLASMA SYSTEMS PVT. LTD.

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