

CHAMPTIG 220 M

India's first **INDIGENOUSLY** developed inverter based **PULSED TIG** equipment with **Digital Microcontroller**



- Large input supply voltage range with built-in under / over voltage, single phasing overload Protections.
- Class H insulation.
- Low power consumption & higher efficiency.
- Easy availability of spare parts.
- Pulsed TIG machine with digital Microcontroller for storage of Weld Programmes.



ADOR WELDING LIMITED



CHAMPTIG 220 M

India's first INDIGENOUSLY developed inverter based PULSED TIG equipment with Digital Microcontroller



SALIENT FEATURES : Built in MMA TIG Pulsed TIG Spot & Cycle welding facility. • Digital microcontroller enable storing of 10 different TIG weld programmes • Complete TIG cycle includes independent setting of gas Preflow time, metal welding current. Current upslope time, Welding current. • Peak / Background / Cycle. Welding Current times, Current down slope time. Final welding Current Gas post flow time. • Light weight & compact size - makes it easy to handle • Digital Panel Meter - for easy readability of welding current • Independent Selection of Weld modes (i.e. 2 Track / 4 Track / Spot Welding / Cycle) • Independent Selection of MMA, TIG with HF, TIG with arc process • Foot Control regulator optionally available.

TECHNICAL SPECIFICATIONS			
MODEL	UNIT	CHAMPTIG 220 M4 / CHAMPTIG 220 M 8	
INPUT			
Input Supply Voltage	V	355 - 455	
Phase	No.	3	
Frequency	Hz	50	
Rating @ 35% duty cycle	KVA	8.4	
@ 60% duty cycle	KVA	6.0	
@ 100 % duty cycle	KVA	4.4	
OUTPUT			
OCV	V	55	
Welding Current range	AMP	5-220	
Max Continuous hand welding current @ 35 % duty cycle	AMP	220	
@ 60% duty cycle	AMP	170	
@ 100 % duty cycle	AMP	130	
PULSED TIG WELDING PARAMETER			
PARAMETER	UNIT	VALUE	
Gas Pre-flow Time	Sec	0-5	
Initial Welding Current	AMP	5-220	
Current Up-slope Time	Sec	0.10	
Main Current (I1)	A	5-220	
Second Level Current (I2)	A	5-220	
Peak Current Time	Sec	10-90% of (1/F)	
Peak Current	AMP	5-220	
Background Current	AMP	5-90% of I1	
Pulse Frequency (F)	Hz	0.5-10	
Current Down-slope Time	Sec	0-10	
Final Current	AMP	5-220	
Gas Post Flow Time	Sec	1-20	
Spot Time	Sec	1-10	
No.of Memory locations for Programme Storage	No	10	
GENERAL			
Insulation	Class	H	
Cooling	Type	Forced Air	
Degree of Enclosure Protection	Type	IP23	
Remote Control		Hand held Std. Scope Foot control optional	
Torch Switch		2 / 4 Track	
Arc Striking		HF	
Air Force Control (MMA Welding)		Provided	
Parameters Display		Digital Display	
Circuit	Type	IGBT	
PROTECTIONS			
Thermal Overload		Provided	
Under Voltage		Provided	
Over Voltage		Provided	
Single Phasing		Provided	
Over All Dimension : Length	mm	495	
Width	mm	235	
Height	mm	440	
Weight	Kg.	29	
TORCH			
	MODEL	HIPROTIG 201-4/HIPROTIG 201-8	
Max. Current carrying capacity @ 60% duty cycle	AMP DC / AMP AC	200 / 150	
@ 100 % duty cycle	AMP DC / AMP AC	150 / 115	
Cable	Type	Co-axial	
Cable Length	Mtr	4 / 8	
Cooling	Type	Gas	
Suitable for Electrode Dia	mm	1.6, 2.4, 3.2	
OPTIONAL ACCESSORIES			
	MODEL	CODE NO	
Set of Tungsten Electrodes	TE 20	3802101	
Pressure Regulator cum Flowmeter	PPF-AT	6400170	
Set of Welders Accessories	WAT	6400101	
Standard set of MMA Welding Accessories	WAC-320	6400210	
Foot Control Regulator	-	6400214	

India's Welding Power House

ADOR WELDING LIMITED

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