

# CHAMPTIG 300 AD

Indigenous Inverter Based AC/DC Mixed  
Pulsed TIG Welding System



Complies to the latest  
International Standards  
IEC EN 60974-1, 60974-10



- LARGE INPUT SUPPLY VOLTAGE RANGE WITH UNDER/OVER VOLTAGE AND SINGLE PHASE PROTECTION
- HIGHER EFFICIENCY & POWER FACTOR
- LOWER POWER CONSUMPTION
- LIGHT WEIGHT AND COMPACT TIG WELDING SYSTEM
- LATEST PWM INVERTER TECHNOLOGY
- IN BUILT SPOT TIG WELDING FACILITY, AC/DC AS WELL AS MIXED TIG WELDING FACILITY. IN BUILT PULSE TIG WELDING CONTROLS WITH INDEPENDENT SETTINGS OF ALL PARAMETERS FROM FRONT PANEL. OPTIONALLY WELDING CURRENT VARIATION POSSIBLE BY USING REMOTE CONTROL (HAND HELD) OR FOOT CONTROL REGULATOR
- CLEANING WIDTH CONTROL IN AC TIG WELDING ENABLES USER TO ADJUST OXIDE CLEANING AS WELL AS PENETRATION OF WELD PUDDLE ACCORDING TO HIS CHOICE

- CONSTANT CURRENT CHARACTERISTICS IRRESPECTIVE OF ARC LENGTH VARIATION HIGH EFFICIENCY ( 82%)
- SMOOTH AND STABLE ARC WITH SPATTER LESS WELDING

CAN BE SUPPLIED WITH OR WITHOUT WATER COOLING UNIT WITH SUITABLE TYPE OF WATER COOLED OR GAS COOLED TIG TORCH (RESTRICTED TO 200 AMPS CAPACITY IN CASE OF GAS COOLED TORCH)

# CHAMPTIG 300 AD

Indigenous Inverter Based AC/DC Mixed Pulsed TIG Welding System



## TECHNICAL SPECIFICATIONS :

Parameter	Unit	Value	
Input			
Supply Voltage, Phase Frequency :	Volts, AC	415 (+15%-10%) 3 Phase, 50/60 Hz	
Max output Input KVA @ 416 V Supply	KVA	MMA Mode	TIG Mode
@ 100% duty cycle		7	7.5
@ 60% duty cycle		10	11
Power Factor		Upto 0.92	
Efficiency		Upto 82	
Output			
Open Circuit Voltage @ 416 V Supply	Volts, DC	75 V DC (+/- 3V)	
Welding Current Range	Amps	AC TIG Mode 20-300 DC TIG Mode 10-300	MMA Mode 50-250
Welding Current (40°C 10 minutes cycle)			
@ 60% duty cycle		TIG Mode 300 Amps	MMA Mode 250 Amps
@ 100% duty cycle		TIG Mode 230 Amps	MMA Mode195 Amps
General			
Remote Controller	10 Meter	Provide as Optional for Current Settings	
Foot Switch Control		Provide as Optional for Current Settings	
Protections		Over Voltage, Under Voltage, Single Phasing, Over Temperature	
Front Panel Functions		MMA TIG Selection Switch	
		2T/ 4T / Spot/ Cycle Selection Switch	
		DC+/- DC-/ AC Welding Method Selection Switch	
		Gas Check Switch	
		Pulse/ Normal Mode Selection Switch	
		HF On/ HF Off Selection Switch	
		Normal/ Foot Selection Switch	
		Menu Switch for Selecting All Functions Via Gas Pre Flow, Start Current, Up slope Time, Base Current, Pulse Current, Down Slope Time, Crater Current, Gas Post Flow Time, Cleaning for AC, AC Frequency, AC Offset, Pulse Width/Spot Time, Pulse Frequency, As Per Mode Selection Operation	

# CHAMPTIG 300 AD

Indigenous Inverter Based AC/DC Mixed Pulsed TIG Welding System



General		
Front Panel Functions		Torch Switch Connector
		Foot Switch Connector
		Remote Connector
		Gas Out
		CAMLOCK output Connector
		Mains On 'Green' Color Indication
		Trip 'Red' Color LED for indication Machine is Under Protection Mode
		Water/Gas Cooled Selection Switch
		Encoder for Selected Parameter Vaule Increment/Decrement.
Cooling	Type	Forced Air
Ambient Temperature Rating	°C	40
Class of Insulation	-	H
Degree of Protection	-	IP23
Dimensions L x W x H (Without handle)	mm	650 x 425 x 515
Weight (Approx)	Kg	50





# CHAMPTIG 300 AD

Indigenous Inverter Based AC/DC Mixed Pulsed TIG Welding System



## TIG WELDING PARAMETER SETTING

PARAMETER	Unit	Value
GAS PRE FLOW TIME	Sec	0-5
START CURRENT	Amp	5-300
CURRENT UNSLOPE TIME	Sec	0-10
BASE CURRENT	A	5-300
PULSE CURRENT	A	5-300
PULSE WIDTH	%	10-90% of Width of Pulse Current
PULSE FREQUENCY	Hz	0.5 to 500
CURRENT DOWN SLOPE TIME	Sec	0-10
CRATER CURRENT	A	5-300
GAS POST FLOW TIME	Sec	0.1-20
SPOT TIME	Sec	1-10
CLEANING CONTROL	%	(-40) - (+40)
AC FREQUENCY CONTROL	Hz	20-100
AC OFFSET	%	(-50) - (+30)

- Warranty:** One year from the date of commissioning. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/ Area Offices/ Authorized Distributors are free from defects in materials and workmanship and will perform in full accordance with applicable specifications.
- In view of continuous development,** ADOR WELDING LIMITED reserves the right to modify/change the design and /or the specifications without any prior notice.
- Backed by** dedicated customer care package.

Contact Us :For all your welding accessories, equipments, safety product needs and services

AL Quoz : 04-2237070 / 04-2285670 / 05-4437018 | Deira : 04-2220486 / 04-2283550 / 052-4887018

Abu Dhabi : 02-5552700 / 050-6417018 | [www.centuryequipmentco.com](http://www.centuryequipmentco.com)