

Champ Mig 250

The new world class indigenous inverter based GMAW welding outfit

INTRODUCTION :

CHAMP MIG 250 is IGBT inverter based welding outfit suitable for GMAW applications. The IGBT Power module, ferrite core and fast recovery diode are used as key device for power conversion and transmission to assure better efficiency and performance. The complete system consists of power source, wire feeder and MIG torch and interconnecting cables.



DETAILS OF COMPLETE SYSTEM :

Sr. No.	Description	Champ Mig 250 A	Champ Mig 250 B
1	Power Source	ICVR 250	ICVR 250
2	Wire feeder	FEEDLITE 20 (NELR)	FEEDLITE 20 (NELR)
3	Torch	ADOR TW 252 (E)	ADOR MTG 250 (E)

SALIENT FEATURES :

- Inverter based GMAW outfit
- High efficiency and high power factor – resulting energy saving
- Auto “Weld Stop” when welding torch is taken away from weld job
- Compatible to Power Generator Supply
- Enhanced Reliability due to SMD technology
- Digital Panel for adjusting the welding parameters
- 30% more Energy efficient than conventional machines
- Maximum Power factor is 0.93
- Excellent dynamic response enables superior arc characteristics. 2T, 4T operating modes
- Electronic choke adjustment for better arc control
- Crater voltage and Crater current adjustment through digital panel
- Unique feature of Globule Detachment to stop formation of globules at the tip of wire at the end of welding
- Automatic “Weld Stop” facility













PROTECTION :

The equipment is provided with following protections.

- Under Voltage and Over Voltage:** Error message is displayed and the equipment shuts down if the supply voltage exceeds the positive or negative limits specified in the Technical Specifications
- Over Temperature:** Error message is displayed and the equipment shuts down if the temperature of the main power components exceeds the safe limits
- Single Phasing Protection:** Error message is displayed and the equipment shuts down if any one of the three phase supply line is absent (single-phasing prevention / protection)

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SPECIFICATIONS :		   	
Technical Specifications	Unit	ICVR 250	
Input			
Input Supply :			
Voltage 	Volt	415, +15%, -10%	
Phase	No	3	
Frequency	Hz	50/ 60	
Input KVA 			
@ 100% duty cycle	KVA	6.5	
@ No Load	KVA	0.19	
Output			
Open Circuit Voltage 	Volts +/-5%	65	
Welding Current Range 	Amp	50-250	
Welding Current (40°C 10 minutes cycle)			
@ 100% duty cycle 	Amp	195	
Welding Voltage Range	Volt	16-34	
Crater Current Range	Amp	50-250	
Crater Voltage Range	Volt	16-34	
Mode of operation		2 track, 4 track, Gas check, OCV check facility	
Remote Control (on wire feeder)		For setting voltage & current	
Power Factor		Max 0.93	
Efficiency	%	83% @ 100% duty cycle	
General			
Compatibility to International standard		As per Std. EN60974-1	
Wire feed speed	m/min	1.5-18	
Suitable Welding Wire Diameter	mm	Steel 0.8,1.0 and 1.2	
Ingress Protection	Class	IP23	
Cooling 	Type	Forced Air	
Dimensions (Approx.) 			
Length	mm	500	
Width	mm	260	
Height	mm	470	
Weight 	Kg	26	
Audio Noise Emission		70	

Cont.

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SPECIFICATIONS :

Technical Specifications	Unit	FEEDLITE 20 (NELR)
Suitable for wire	mm	0.8,1,1.2
Wirefeed speed	mtr/min	1.5 to 18
Wire roll drive	-	TWO
Wire drive motor	Type	Permanent Magnet DC
Wire feeder Motor voltage	V	42
Wire feeder fitted with rollers	-	0.8/1.0/1.2 for sold wire 1no
Suitable for Wire Spool capacity	Kg	15
Dimensions		
Length	mm	460
Width	mm	210
Height	mm	280
Weight (without spool)	Kg	10 (Approx)

TORCH SPECIFICATIONS :

Technical Specifications	Unit	ADOR TW 252 (E)	ADOR MTG 250 (E)
Rating	A	250A @ 60% Duty cycle for CO ₂	250A @ 60% Duty cycle for CO ₂
End Connection to Torch	Type	Euro	Euro
Suitable for Wire Ø	mm	0.8, 1.0, 1.2	0.8, 1.0, 1.2
Torch Length	meter	3	3

ORDERING INFORMATION :

Champ Mig 250 A	Power Source	Wire Feeder	Torch	Product Code
Champ Mig 250 A	ICVR 250	FEEDLITE 20 (NELR)	ADOR TW 252 (E)	F10.37.202.0144
Champ Mig 250 B	ICVR 250	FEEDLITE 20 (NELR)	ADOR MTG 250 (E)	F10.37.202.0146

- **Warranty** : One year from the date of commissioning. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorised 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.