



CHAMPMIG 400

The world class Inverter based MIG Welder



INTRODUCTION

CHAMP MIG 400 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, MIG torch and interconnecting cables.

DETAILS OF COMPLETE SYSTEM

Sr. No.	Description	CHAMPMIG 400	CHAMPMIG 400
1	Power Source	ICVR 400	ICVR 400
2	Wire feeder	FEEDLITE 40 (NEMRC)	FEEDLITE 40 (NEMRC)
3	Torch	ADOR HIPRO 403 (E)	ADOR MTG 400 (E)

SALIENT FEATURES

- Inverter based digitally controlled GMAW outfit
- Digital Panel for adjusting the welding parameters
- 25% more Energy efficient than conventional machines
- Maximum Power factor is 0.94
- Excellent dynamic response enables superior arc characteristics
- 2T, 4T operating modes
- Welding dynamic adjustment for better arc control
- Crater voltage and Crater current adjustment through digital panel
- Unique feature of Fresh Tip Transfer (FTT) to avoid globule formation
- 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 400
Input		
Input Supply :		
Voltage 	Volt	415 , +15%, -10%
Phase	No	3 Ø
Frequency	Hz	50/ 60
Input KVA 		
@ 100% duty cycle	KVA	12
@ No Load	KVA	0.24
Output		
Open Circuit Voltage 	Volts +/-5%	65
Welding Current Range 	Amp	50-400
Welding Current (40°C 10 minutes cycle)		
@ 60% duty cycle 	Amp	400
@ 100% duty cycle	Amp	310
Welding Voltage Range	Volt	16-39
Crater Current Range	Amp	50-400
Crater Voltage Range	Volt	16-39
Mode of operation		2 track, 4 track, Gas check, OCV check facility
Remote Control		For setting voltage & current
Power Factor		Max 0.93
Efficiency	%	87% @ 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	Aluminum 1.2 – 1.6 Steel 0.8,1.0,1.2 & 1.6
Ingress Protection	Class	IP23
Cooling 	Type	Forced Air
Dimensions (Approx.) 		
Length	mm	700
Width	mm	450
Height	mm	600
Weight 	Kg	44
Audio Noise Emission	dB	70

Cont.



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Technical Specifications	Unit	FEEDLITE 40 (NEMRC)
Suitable for wire Ø	mm	0.8,1,1.2,1.6
Wirefeed speed	mtr/min	1.5 to 18
Wire roll drive	-	Four
Wire drive motor	Type	Permanent Magnet DC
Wire feeder Motor voltage	V	42
Wire feeder fitted with rollers	-	1.2/1.6 for sold wire 2 no
Suitable for Wire Spool capacity	Kg	15
Dimensions		
Length	mm	563
Width	mm	230
Height	mm	410
Weight (without spool)	Kg	16 (Approx)

TORCH SPECIFICATION

Technical Specifications	Unit	ADOR HIPRO 403 (E)	ADOR MTG 400 (E)
Rating	A	400A @ 60% Duty cycle for CO ₂	400A @ 60% Duty cycle for CO ₂
End Connection to Torch	Type	Euro	Euro
Suitable for Wire Ø	mm	0.8, 1.0, 1.2, 1.6	0.8, 1.0, 1.2, 1.6
Torch Length	meter	3	3

- **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.

