

# MIG-350CF/500CF



**Quick  
Specs**  
CE

Heavy Industrial Application:  
Metal fabrication workshops  
Shipyards and offshore industry  
Chemical and process industry  
Steel structure workshops

Process:  
MAG(GMAW)  
MIG (GMAW)  
Stick (SMAW)

Input Power: 350CF: 400V, 3-Phase  
500CF: 400V, 3-Phase  
Amperage Range: 350CF: 30-350A  
500CF 30-500A

Rated Output at 40°C (104°F): 350CF: 350A at 31.5V @60% Duty Cycle  
500CF: 500A at 39V @60% Duty Cycle  
Weight: 50KG

## For MIG and Stick Welding

**The only choice of power, quality and economy.**

MIG-350CF/500CF pack huge duty cycle performance into compact lean dimensions and weight, increasing productivity and work site mobility. Air or water cooled packages combine with innovative distance wire feeding and remote control options to deliver outstanding welding performance. Precise arc performance suits environments where quality matters, and 10% more power efficiency over conventional designs will please every user.

## Specialist Features

### Precision Arc Performance:

- **The short-circuiting metal transfer mode** is the low heat input mode of metal transfer for GMAW so that it reduces weldment distortion.
- **Superior MAG Process** – Welds with mixed or CO<sub>2</sub> shielding gas for superior quality welding.
- **ARC Dynamic control** offers the best arc performance in all situations.
- **4T Trigger Hold** allows to hold the present current by user until press the trigger again.
- **Professional 4-rolls wire-feeder** provides a stable wire speed.
- **Fast, precise, clean arc ignition and arc ending.**

### Outstanding Quality:

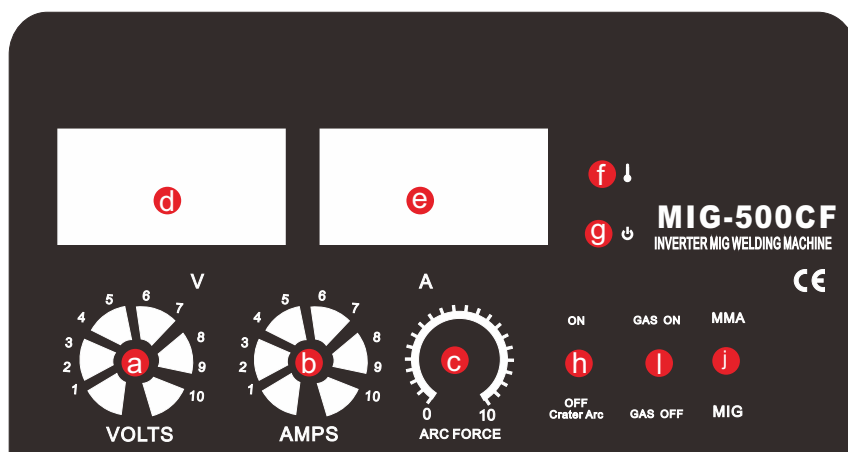
- Newly designed using the latest power electronic technology for improved reliability.
- CE Certified.
- One-Year Warranty on parts.



## Technical specifications

Item No	MIG-350CF	MIG-500CF
Rated Input Voltage	3PH ~ 400V +15%	3PH ~ 400V +15%
Max. Load Power Capacity	13.3KVA	23KVA
Rated Duty Cycle(40oC)	60%	MIG: 350A/315V MMA: 350A/34V
	100%	MIG: 300A/29V MMA:300A32V
Welding Current/Voltage Range	MIG: 30A/15.5V~350A/31.5V MMA:30A/21.2V~350A/34V	MIG: 30A/15.5V~500A/39V MMA:30A/21.2V~500A/40V
Open Circuit Voltage	MIG: 70V MMA: 70V	MIG: 70V MMA: 70V
Power Factor	0.92	0.92
Efficiency	85%	88%
Pre-Gas Time	0-15S	0-15S
Flow-Gas Time	0-15S	0-15S
Wire-feed Mechanism	4 Rollers	4 Rollers
Wire-feed Speed Range	1.5-15 m/ min	1.5-15 m/ min
Wire Spool Capacity	300mm (15kg)	300mm (15kg)
Filler Wires Ø (mm) Fe, Ss:	0.6~1.6 mm	0.6~1.6 mm
Flux Cored:	0.8~2.0 mm	0.8~1.6 mm
Al:	1.0~2.4 mm	1.0~1.6 mm
Dimension	800x440X600mm	800x440X600mm
Weight	50KG	50KG

## General View of Control Panel

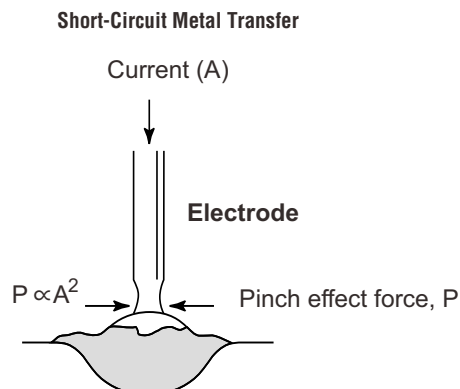


### Control Panel Parameter Values

- (a) Welding Voltage regulator.
- (b) Welding Current regulator.
- (c) Arc Force regulator.
- (d) Power/working pilot lamp.
- (e) Over-load/Over-heat Protection or Damage pilot lamp.
- (f) Voltmeter
- (g) Ampmeter.
- (h) Crater ON/OFF mode selection (2T/4T).
- (i) Gas-test ON/OFF selection.
- (j) MMA/MIG welding mode selection.

## The short-circuiting metal transfer mode

The short-circuiting metal transfer mode is the low heat input mode of metal transfer for GMAW and has higher electrode efficiencies, 93% or more. The low heat input reduces weldment distortion and makes it ideal for sheet metal thickness materials.



## Four-Roll Drive System



### 4-Rolls wire-feeder with strong feeding motor.

The MIG-350CF/500CF gives precise, clean welding performance, and also support optional root pass welding process. Our new control technology ensures excellent arc ignition and welding performance, obviously reduce the time for cleaning the weld spatter.

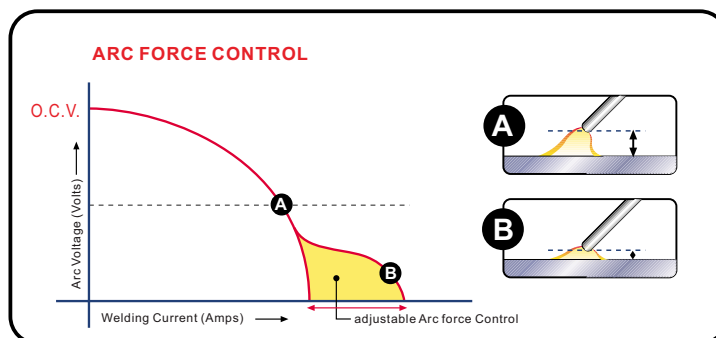
## Built-in water-cooling unit



**Built-in water-cooling unit** offers a safe operation at high temperatures and during extended duty cycles. Fill the reservoir with a 20 - 40 % mixture of ethanol and water, or with any other suitable antifreeze. The inside motor and pump head are imported from Italy. The capacity of the reservoir is 6.5 litres.

## Arcforce correction (welding characteristics)

During the welding process, arcforce prevents the electrode sticking in the weld pool with increases in current. This makes it easier to weld large-drop melting electrode types at low current strengths with a short arc in particular.



## Root pass welding process

The **MIG-350CF** gives precise, clean welding performance, and also support optional root pass welding process. Our new control technology ensures excellent arc ignition and welding performance, obviously reduce the time for cleaning the weld spatter.



## Accessories

### For Standard accessories



**MIG torch: MIG-501D**  
PTEE liner



**Earth clamp with cable 3M**

### For Optional accessories



**Argon/CO2 gas regular with heater**  
Output meter :1-30LPM  
Inlet pressure gauge:280kg/4000psi  
Out thread :M12-1.ORH(M)



**Professional torch:**  
Tbi 9W/ALU water cooled



**Trolley:WT-150**

## Consumables

### For MIG torch: MIG-501D



#### Nozzles

ICS0713	Gas nozzle Φ 16mm
ICS0740	Gas nozzle Φ 14mm
ICS0746	Gas nozzle Φ 19mm
ICS0747	Adjusted tapered nozzle Φ 15mm
ICS0748	Spot welding gas nozzle Φ 20mm



#### Contact Tips

ICU0005-08	Contact tip Φ 0.8mm M8x30 Ecu
ICU0005-10	Contact tip Φ 1.0mm M8x30 Ecu
ICU0005-12	Contact tip Φ 1.2mm M8x30 Ecu
ICU0005-16	Contact tip Φ 1.6mm M8x30 Ecu
ICU0005-20	Contact tip Φ 2.0mm M8x30 Ecu
ICU0005-24	Contact tip Φ 2.4mm M8x30 Ecu
ICU0005-58	Contact tip Φ 0.8mm M8x30 CuAl
ICU0005-59	Contact tip Φ 0.9mm M8x30 CuAl

ICU0005-60	Contact tip Φ 1.0mm M8x30 CuAl
ICU0005-62	Contact tip Φ 1.2mm M8x30 CuAl
ICU0005-66	Contact tip Φ 1.6mm M8x30 CuAl
ICU0005-70	Contact tip Φ 2.0mm M8x30 CuAl
ICU0005-74	Contact tip Φ 2.4mm M8x30 CuAl
ICU0005-78	Contact tip Φ 0.8mm M8x30 CuCrZr
ICU0005-80	Contact tip Φ 1.0mm M8x30 CuCrZr
ICU0005-82	Contact tip Φ 1.2mm M8x30 CuCrZr



#### Replacement Lines

IIC0226	Brass terminal Φ 3.0X4.5mm 0.35m
IIC0210	Teflon liner Φ 3.0X4.5mm 3m Yellow
IIC0580	Steel liner Φ 1.2-1.6mm 3m

### Others



**10-pin connector**



#### Drive Roll

Fe 0.6/0.8 mm
Fe 0.8/0.9 mm
Fe 0.8/1.0 mm
Fe 1.0/1.2 mm
Fe 1.2/1.6 mm
Al 0.6/0.8 mm
Al 0.8/0.9 mm
Al 0.8/1.0 mm
Al 1.0/1.2 mm
Al 1.2/1.6 mm