



INVERTER FUSION LTD

DIGITAL INVERTER WELDING TECHNOLOGY

# *MIG, MMA & TIG Welding Machines & Plasma Cutters*



[www.Inverterfusion.co.uk](http://www.Inverterfusion.co.uk)

## MMA & MIG Welders

MMA-135 & MMA-160	4
MIG130	5
MIG170 & MIG200	6
ARC250	7
MIG STAR 315	8

## ACCESSORIES

Solar Powered Welding Helmets	9
-------------------------------	---

## PLASMA CUTTERS

CUT 40	10
CUT 60	11



# Ask The TIG

All the know how - tips, advice  
and much more. Ask The TIG, at:

[www.inverterfusion.co.uk/askthetig](http://www.inverterfusion.co.uk/askthetig)

## MIG, MMA & TIG Welding Machines & Plasma Cutters



Inverter Fusion Ltd supplies a wide range of high quality welding machines and plasma cutters to suit both professional and DIY/hobby users.

- All of these machines are available through a network of distributors situated throughout the UK – please visit our website for details of your nearest stockist
- Each machine comes complete with the necessary leads, hoses and torches and a comprehensive user manual
- Should you have any questions regarding the use or maintenance of your machine our experienced engineers are available to answer them on our UK hotline – 01404 549791 – or you can visit our Ask The TIG pages on our website
- All these machines come with a comprehensive 12month parts and labour warranty with all repairs being carried out by our expert engineers at our factory in Devon
- Post warranty support is also available



The Association Of  
Welding Distribution

Inverter Fusion Ltd is a member of the Association of Welding Distribution

## MMA-135 & MMA-160



### MMA-135 & MMA-160

- Compact, lightweight and easily portable inverter welders
- Ideal for hobby/DIY and light agricultural use
- Up to 60% duty cycles
- Hot start enables you to start welding easily
- Anti-stick enables you to separate the electrode easily without reddening
- Arc force provides a 15% over current to prevent sticking when the electrode enters the weld pool
- Over temperature protection to prevent overheating
- Scratch start TIG capability
- Come complete with earth clamp, electrode holder and convenient carry bag

#### Product Features

	MMA-135	MMA-160
Amps	135	160
Electrode size	1.6 – 3.2mm	1.6 – 4.0mm
Dimensions (mm)	240 x 120 x 160	260 x 130 x 180
Weight	3.1kg	3.8kg

## MIG130



### MIG130

- Compact 130 Amp MIG welder for hobby/DIY use
- Up to 60% duty cycle
- Fan cooling system
- Can be used with or without gas
- Comes complete with MIG torch, earth return, regulator and gas hose

#### Technical Specifications

	MIG130
Main Voltage (AC) V	240
Frequency HZ	50/60
Input Capacity +60% KVA	2.2
No Load voltage V	21-32
Welding Current +/-10% Amps	35-130
Duty Cycle @ 20 °C @ 130 Amps	15%
Wire Spool (ø)	100mm
Power Settings	4
Flux Cored Wire (ø)	0.8 - 0.9mm
Wire for Steel (ø)	0.6 - 0.8mm
Wire for Stainless Steel	0.6 - 0.8mm
Wire for Aluminium	1mm
Insulation Class	H
Protection Class	IP21S
Dimensions (mm)	585 x 255 x 375
Weight	28kg



## MIG170 & MIG200



### MIG170

- Professional 170 Amp inverter MIG welder
- 60% duty cycle
- Soft start for ease of use
- MMA and scratch start TIG capabilities
- Can be used with or without gas
- Burn back control
- Comes complete with MMA leads, Euro MIG torch and gas hose

### MIG200

- Professional 200 Amp inverter MIG welder
- Up to 60% duty cycle
- Soft start for ease of use
- Comes complete with Euro MIG torch, regulator, earth return and gas hose

#### Technical Specifications

	MIG170	MIG200
Input Power Voltage	240v – 50/60hz	240v – 50/60hz
Max Input Current	22 Amps	29 Amps
Max Power Capacity	5.1 KVA	6.4 KVA
Current Range MMA & TIG	10 – 160 Amps	-
Current Range MIG	25 – 175 Amps	50 – 200 Amps
Voltage Range MIG	11 – 26V	11 – 26V
Open Circuit Voltage MMA	70V	-
Wire Feed Speed (M/Min)	1.5 – 16	2 - 15
MIG Welding Wire Diameter	0.6, 0.8, 0.9mm	0.6 – 1.2mm
Duty Cycle @ 20 °C	60% @ 100 Amps	60% @ 135 Amps
Power Factor	0.7	0.85
Efficiency	85%	85%
Insulation Class	F	F
Protection Class	IP21	IP21
Dimensions (mm)	480 x 230 x 360	520 x 270 x 500
Weight	18kg	25kg

## ARC250



### ARC250

- Professional 3 phase MMA inverter welder
- Lightweight and portable
- 60% duty cycle
- Precise settings using digital amp meter
- Adjustable arc force for precise welding
- Welds most types of electrode including mild steel, stainless steel, cast iron, low hydrogen and aluminium
- Extremely efficient, low power consumption
- Scratch start TIG capability
- Comes complete with MMA leads

#### Technical Specifications

	ARC250
Input Power Voltage AC	415V
Frequency	50/60Hz
Rate Input Power Capacity	9.4KVA
No Load Voltage	67V
Output Current Rate	20 – 225 A
Output Voltage	29V
Duty Cycle 20 °C	60% @ 175 Amps
Power Factor	0.93
Insulation Class	F
Protection Class	IP23
Arc Force	0 – 72 Amps Adjustable
Dimensions (mm)	425 x 205 x 355
Weight	17.2kg



## MIG STAR 315



### MIG STAR 315

- Professional MIG welder
- High performance duty cycle
- Fan cooling system
- Works with a wide range of materials
- Continuous, spot and stitch settings
- Comes complete with Euro MIG torch, earth return, regulator and gas hose

#### Technical Specifications

#### MIG STAR 315

Main Voltage (AC)	415V
Frequency HZ	50/60
Input Capacity +60% KVA	9
No Load Voltage	16 - 36V
Welding Current +/-10%	35 - 315 Amps
Duty Cycle @ 20 °C	35%
Wire Spool (ø)	300mm
Power Settings	30
Flux Cored Wire (ø)	0.8 - 1.0mm
Wire for Steel (ø)	0.6 - 1.2mm
Wire for Stainless Steel	0.6 - 1.2mm
Wire for Aluminium	1 - 1.2mm
Insulation Class	H
Protection Class	IP21S
Dimensions (mm)	970 x 520 x 810
Weight	108kg



## SOLAR POWERED WELDING HELMETS



### Solar Powered Welding Helmets

- Auto darkening
- Variable delay from dark to light states
- Ideal for Arc, MIG & TIG welding
- High strength mask material
- High clear view filter
- Lens sensitivity controls
- Full conformity with ANSI & CE regulations
- Replaceable inner and outer filter covers
- Available in a variety of metallic colours

#### Technical Specifications

#### WH7000 WH8000

Power Supply	Solar & Lithium combination	Solar & Lithium combination
Filter Size	110mm x 90mm x 8mm	110mm x 90mm x 8mm
UV/IR Protection	Up to shade DIN 15 at all times	Up to shade DIN 15 at all times
Operating Temperature	-5 °C - 55 °C	-5 °C - 55 °C
Light State	Shade DIN 4 (3)	Shade DIN 4 (3)
Variable Dark Shade	Shade DIN 9 - 13 (5 - 9)	Shade DIN 9 - 13 (5 - 9)
Switching Time (from light to dark)	1/25000 second	1/25000 second
Delay Time (from dark to light)	Adjustable 0.15 - 0.8 sec	Adjustable 0.3 - 0.6 sec
Sensitivity Adjustable	Yes	Yes
Shade Adjustable Knob	Yes	Yes



## Plasma CUT40



### Plasma CUT40

- Lightweight and portable inverter plasma cutter
- Cuts any metal – mild steel, aluminium, stainless steel etc.
- Minimal distortion on thin metal
- Cuts steel up to 12mm thick
- No combustible gas required
- Comes ready to use complete with torch, earth return, regulator and air hose—all you need is compressed air and a 240v power supply

#### Technical Specifications

#### CUT40

Input Power Voltage (AC)	240V 50/60Hz
Rate Input Power Capacity	4.8KVA
No Load Voltage	230V
Output Current	20-40 Amps
Rated Output Voltage	96V
Duty Cycle @ 20 °C	60%
Efficiency	85%
Power Factor	0.93
Protection Class	IP23
Air Flow	0.17 m <sup>3</sup> /min
No Load Loss	40W
Burner Inner Diameter	1mm
Pressure of Air Compressor	4.5 – 5 Bar
Dimensions (mm)	371 x 155 x 295
Weight	8.6kg

## Plasma CUT60



### Plasma CUT60

- Powerful, portable inverter plasma cutter
- Cuts any metal – mild steel, aluminium, stainless steel etc.
- Minimal distortion on thin metal
- Cuts steel up to 20mm thick from a 240v power supply
- No combustible gas required
- Comes ready to use complete with torch, earth return, regulator and air hose—all you need is compressed air and a 240v power supply

#### Technical Specifications

#### CUT60

Input Power Voltage (AC)	240V 50/60Hz
Rate Input Power Capacity	9KVA
No Load Voltage	230V
Output Current	60 Amps
Rated Output Voltage	120V
Duty Cycle @ 20 °C	60%
Efficiency	85%
Power Factor	0.93
Protection Class	IP23
Air Flow	0.17 m <sup>3</sup> /min
No Load Loss	60W
Burner Inner Diameter	1.2mm
Pressure of Air Compressor	4.5 – 5 Bar
Dimensions (mm)	510 x 200 x 350
Weight	16kg



Your local IFL distributor:



*DIGITAL INVERTER WELDING TECHNOLOGY*