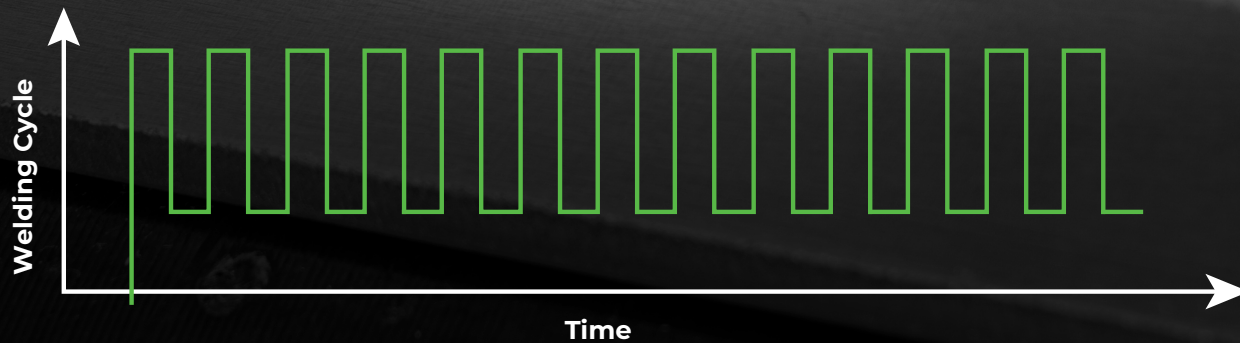


UNIMIG ENVY



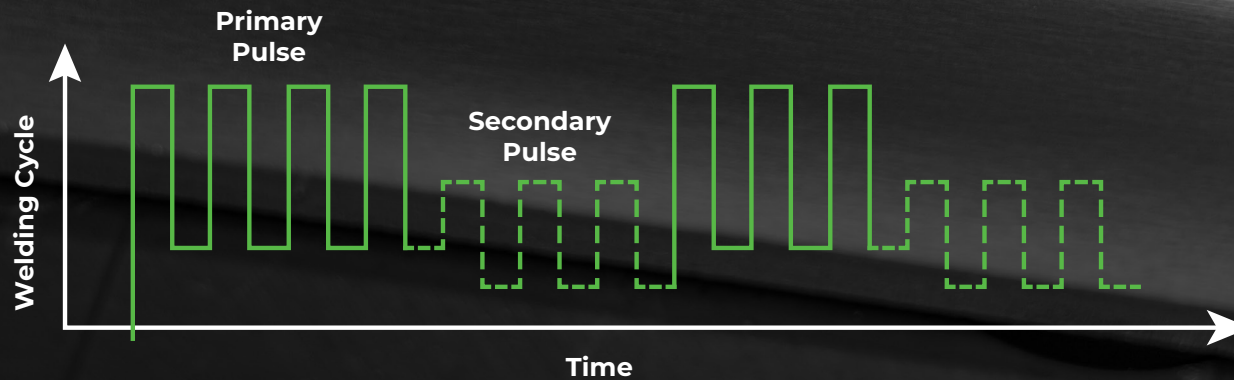
MULTI250 **AC/DC**

Single Pulse MIG.



A single pulse weld alternates between a peak and base current, which works to minimise the amount of heat input without compromising on any of the penetration. The addition of a base current and reduction in heat means it's perfect for softer materials like aluminium. Pulse welding is also done by spray transfer, eliminating spatter and cutting your post-weld clean-up time.

Double Pulse MIG.



A double pulse weld alternates between a peak current and two base currents, reducing the heat input of the weld even further than single pulse, while still maintaining all of the benefits. Because of the faster freezing puddle, your double pulse welds come out looking just like a stack of dimes. You get the aesthetics of a TIG weld with all the speed of spray MIG.

Superior AC TIG.

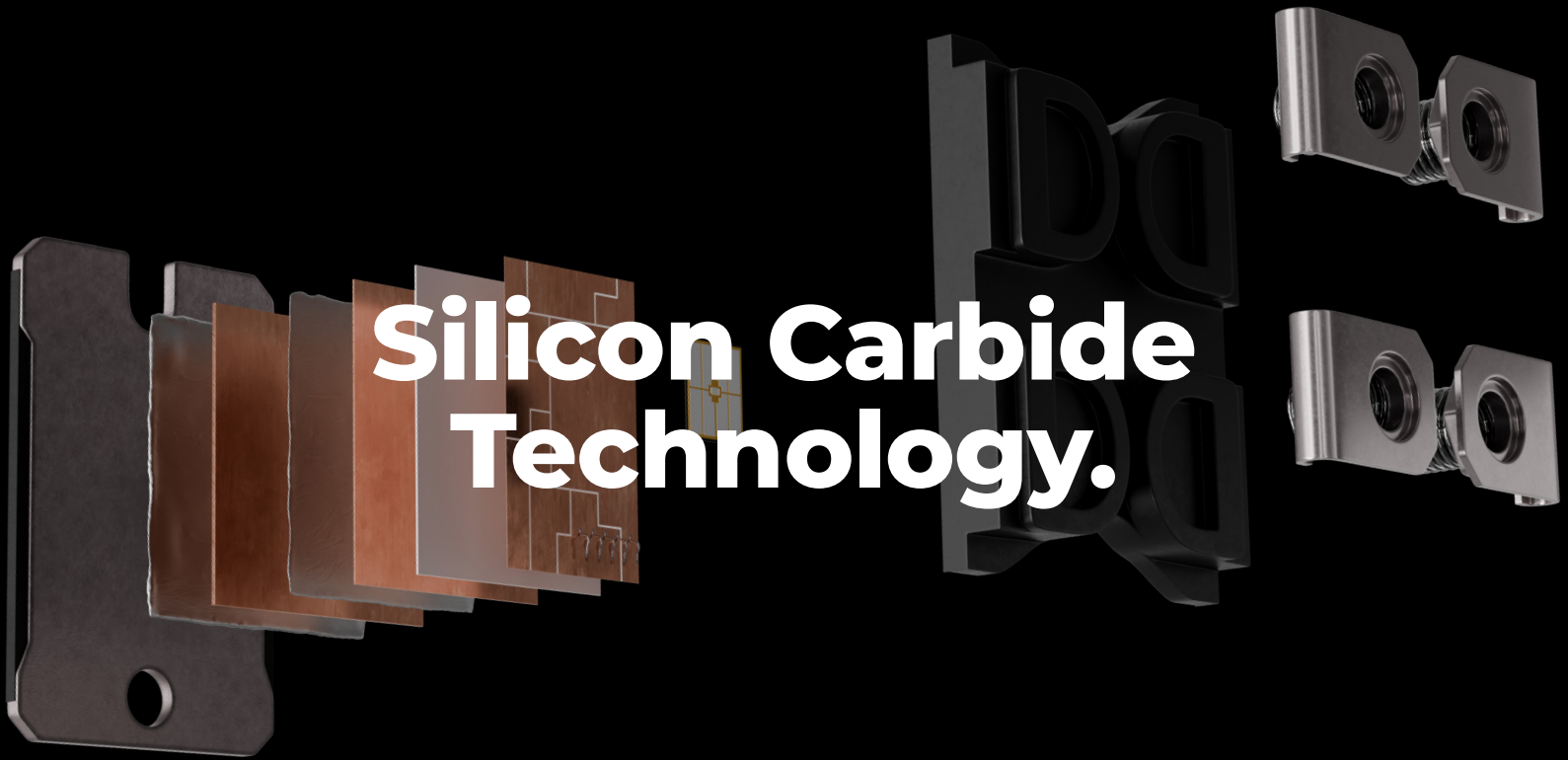
Weld every kind of metal. With the ability to run on an Alternating Current (AC) you're able to weld aluminium as effortlessly as mild and stainless steels on a Direct Current (DC).



Superior DC TIG.

Get unmatched welds on steel. With Direct Current (DC) TIG welding, you get smooth, stable arcs for flawless welds on mild and stainless steels, delivering clean results and maximum control on every joint.





The first of its kind, the new silicon carbide (SiC) MOSFET is the next-generation of semiconductor technology.

This SiC MOSFET can easily achieve a high switching frequency of 100K. With a higher switching frequency, the high-frequency characteristics are improved, and the machine's main frequency is increased to 100kHz, more than double that of a traditional MOSFET, and with less conductor resistance.

This higher frequency and a low conduction resistance means the DC current's waveform ripple is smaller, providing a more stable output, better arc characteristics, and finer control over the arc.

These SiC MOSFETs are smaller, and this reduction in size minimises the electrical loss, and increases the energy efficiency, surpassing that of traditional MOSFET technology.

Silicon carbide MOSFETs have a significantly higher impact resistance and temperature resistance compared to traditional ones. The higher impact resistance allows it to withstand higher voltages, while the increase in temperature resistance (150°C vs 120°C) means that it will perform well even in higher temperatures.

Our new SiC MOSFET works to make the machine more reliable, with a superior arc performance and better weld quality compared to previous MOSFET technology.



Add-ons Available.

SEPARATE WIRE FEEDER

Add the ENVY Wire Feeder and get an extra 10m reach from your machine. It also allows you to run two wires from the machine at the same time.

WATER COOLER

The perfect accessory, the W50 Water Cooler helps maximise your welding performance.

WELDING TROLLEY

Maximise your flexibility, portability and manoeuvrability with the T40 Welding Trolley.

Digital Control MIG Torch.

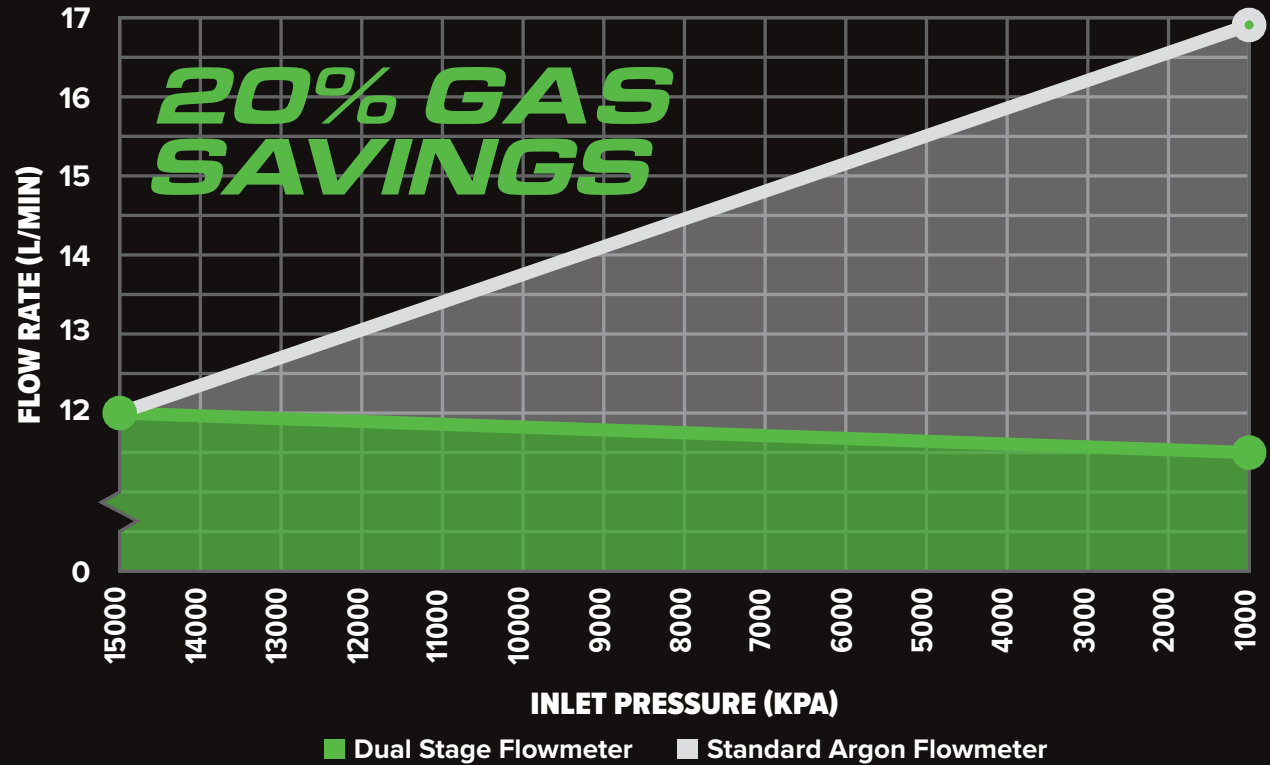
Our digital MIG torch allows you to adjust your settings on the fly. Change the amps, current and voltage at the touch of a torch button.



Dual Stage Argon Flowmeters.



**INCLUDES
TWO DUAL STAGE
FLOWMETERS**



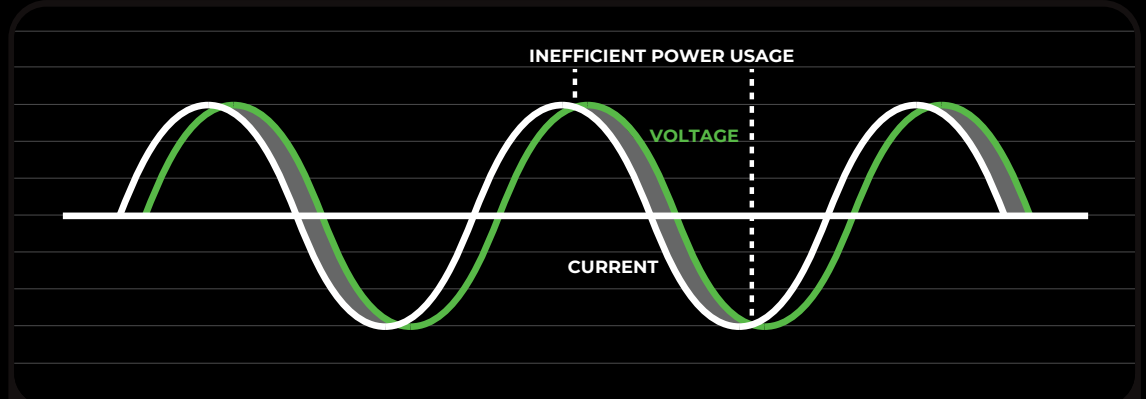
This graph compares the performance of a standard flowmeter and our Dual Stage Argon Flowmeter under continuous operation, with cylinder pressure decreasing from 15000 kPa to 1000 kPa. The Dual Stage Flowmeter maintained a stable flow rate and lasted 217 minutes, while the standard flowmeter depleted the gas in 180 minutes due to rising flow rate. The results show a gas savings of approximately 20.6% with the Dual Stage Argon Flowmeter.

MACHINE FEATURES



7" LCD Touchscreen

Navigation has never been easier. With the 7" LCD touchscreen, selecting your weld parameters or changing your settings mid-weld is effortless. Prefer physical buttons? Use the traditional control knobs to make all of your adjustments.



Power Factor Correction

Get the most out of your machine. The PFC maximises the electrical efficiency of the machine and automatically compensates for any voltage fluctuations, so you get more output power and the internal components last longer.



Auto Polarity

Easily swap between weld modes with auto polarity. Simply press the torch trigger, and the machine will swap to the selected mode.

MIG FEATURES



MIG Smart-Set

Setting up for a weld has never been easier, just set your wire material and size, gas, and joint type and you're ready to weld!



Digital 4 Geared Wire Drive

Experience unparalleled accuracy with our Digital 4 Geared Wire Drive system. Designed to sustain a consistent arc in varying conditions and with different wire types, it ensures an accurate wire feed speed. With this system, achieving precision in every welding task is effortless.



Push-Pull Gun Ready

Achieve smooth and steady wire feeding, especially when using softer wires such as aluminium. With a 'Pull' motor built into the torch, the wire can be fed over a greater distance, granting you the freedom to move and manoeuvre with ease while MIG welding.



© Gas-Shielded & Gasless Wires

This machine supports both gas-shielded MIG and gasless MIG, meaning you can run mild steel, stainless steel, aluminium as well as flux-cored MIG wires.



⚡ Line Resistance Detection

The integrated calibration feature automatically compensates for voltage drops caused by cable resistance, and displays the true arc voltage at the torch, not just at the power source, with no extra sensors or complex setups required. Get consistent voltage control across varying cable lengths and setups, for improved arc stability, better weld quality, reduced defects and less spatter.



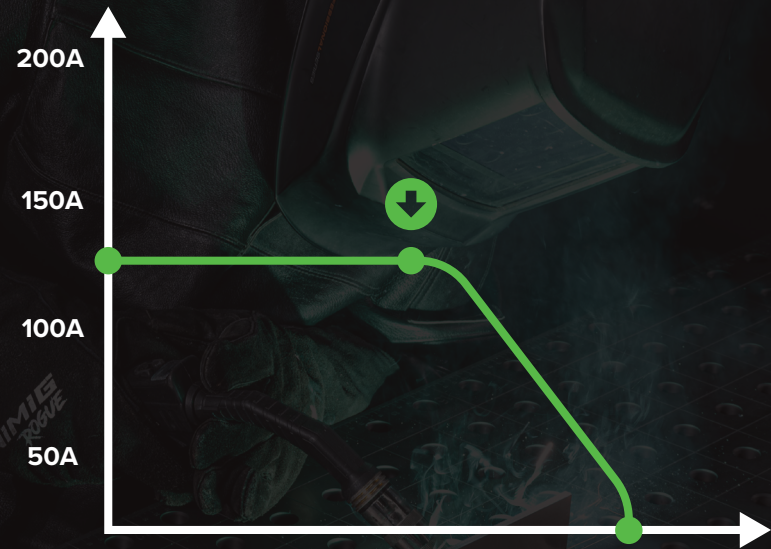
✱ Adjustable Arc Length

Get absolute precision on your settings. The adjustable arc length allows you to increase or decrease the preselected voltage while in synergic and pulse MIG modes.



Hot Start

Get the smoothest arc start possible. The Hot Start function gives a boost of current at the beginning of your weld, eliminating any issues with starting on cold metal, letting you weld on thicker materials and making welding aluminium even easier.



Crater Fill

End your welds as strong as they started. Crater Fill ramps your welding current and voltage down at the end of a weld, filling it in at a lower amperage, eliminating craters and pinholes.



Pool Gun Ready

Make welding aluminium even easier. No need to change your existing setup. The pool gun lets you quickly switch over and get any job done with no downtime.



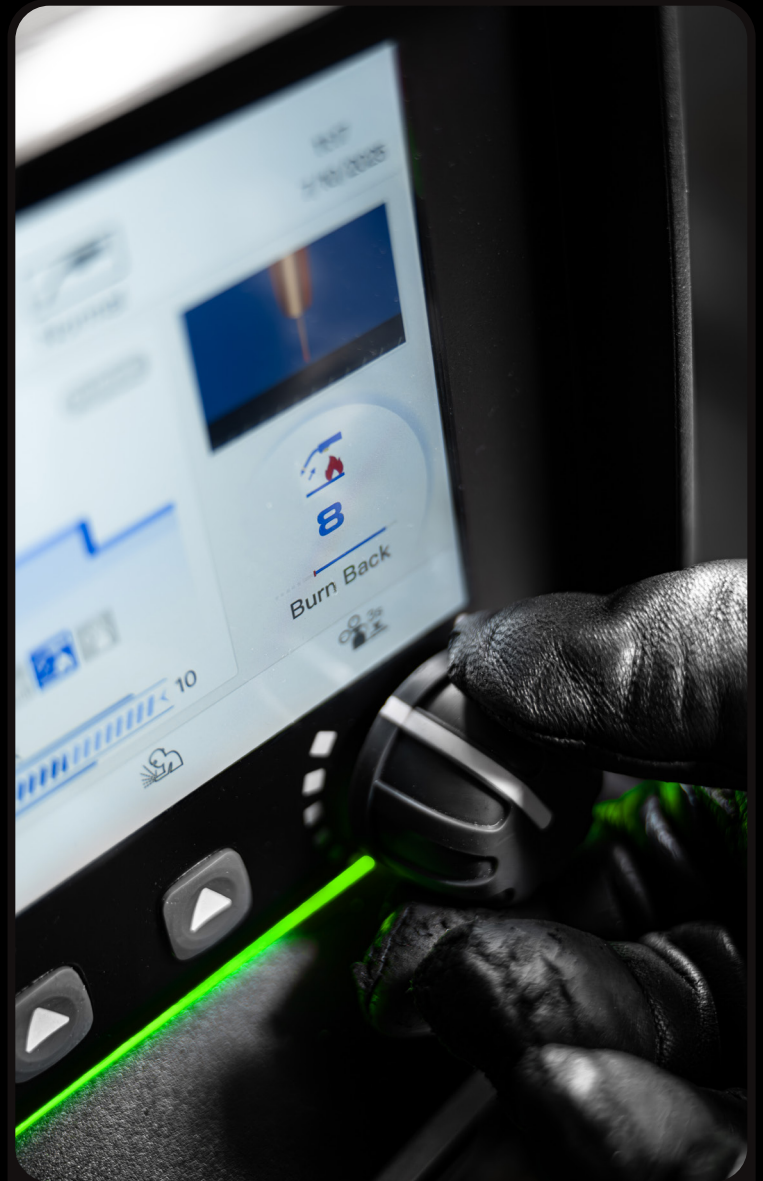
🎯 Large Wire Spool Capacity

Fits both D200 and D300 wire spools, so you can put 15kg mild steel or 7kg aluminium spools in the machine.



📉 Inductance Control

Take complete control of your arc with the inductance settings. By changing the frequency of your short circuit MIG welds with the Inductance controls, you can choose your preferred arc characteristics on every weld.



⏪ Burnback Adjustment

Stop your wire from ever fusing with your weld or your contact tips again. Tune your burnback control to suit how much wire you want to remain sticking out from your torch when you finish a weld.

TIG FEATURES



Speed Start

Speed up the formation of the weld puddle by applying a synergic pulse program to the beginning of the weld. The initial pulse works to melt the joint edges faster, for quicker puddle formation compared to a standard arc start.

TackPlus

TackPlus is a tack welding program used to create evenly spaced and sized fusion tack welds along a joint with minimal heat input.



Steady Arc

Steady Arc adjusts the welding current based on the arc voltage. When the voltage goes down, the amperage will go up, and vice versa, to give a consistent weld puddle, a sharper arc and a constant heat input. Weld speeds can be increased with no fluctuations in the weld current.



T Higher Pulse Frequency in AC & DC

With a pulse frequency as high as 999 pulses per second in both AC and DC TIG, you can get as many pulses as you need for any scenario.



W Independent Amplitude Control

The independent amplitude lets you adjust the amperage in both the EP and EN parts of the AC cycle, letting you completely customise the amount of heat directed to the workpiece and the tungsten.



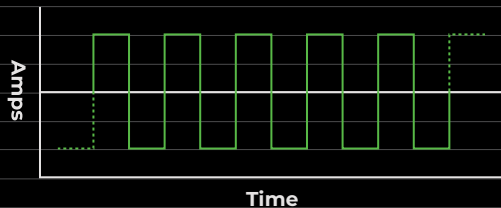
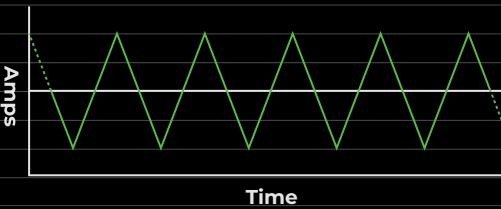
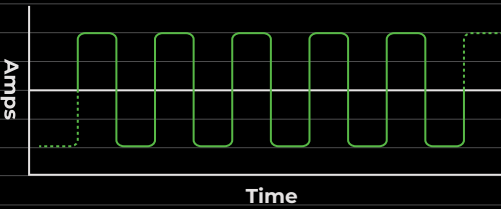
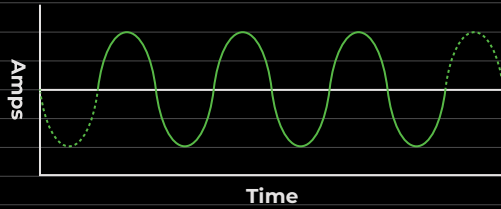
D Cap Shaping

Get the perfect tungsten shape for your aluminium welds every time with just the click of the trigger. Turn the cap shaping feature on, press the torch trigger, and the machine will prep the optimal tungsten shape for your aluminium welds.



TIG Smart-Set

The easiest way to set up for a TIG weld, simply set your filler material, joint type, tungsten diameter, and material thickness and you're good to go!



AC Waveforms

Customise your AC waveforms. Choose from your preferred welding waveform or use a combination of two to adjust the arc characteristics to suit your welding needs.



Mixed AC/DC

Experience the best of both worlds. Mixed AC/DC combines the efficiency of AC and the penetration of DC- TIG in one weld. With it, you get faster welding speeds, better penetration, a faster weld puddle on cold workpieces, and you can weld on thicker materials.

MMA FEATURES



✦ Arc Force

The adjustable arc force adjusts the current (and, therefore, the heat) based on the length of the arc. When the arc becomes shorter, the current increases to keep it stable and stop the electrode from sticking. When the arc becomes longer, the current will decrease.

It allows you to fine-tune your arc and improve your weld's quality and consistency, especially in tight corners or when welding overhead or vertically.



▯▯▯ Pulse MMA

Pulse MMA welding helps reduce spatter, improves heat control and allows for an easier removal of slag. It also improves the speed and efficiency of vertical up welds by eliminating the use of the "Christmas Tree" technique, while still maintaining root fusion.



🛡️ Anti-Stick

The built-in anti-stick is designed to keep you from ever sticking an electrode again, whether you're at the start of a weld, halfway through or about to end one. When the machine detects that the electrode is sticking, the current will shut off and unstick it.

ENVY MULTI250 AC/DC



MIG

TIG

STICK

5 YEAR
WARRANTY

Specifications

| | |
|-------------------------|---|
| SKU | U11238 |
| Primary Input Voltage | 240V Single-Phase 50/60Hz |
| Supply Plug | 15A |
| I _{eff} (A) | 15 |
| I _{max} (A) | 34 |
| Rated Output | 20-250A |
| No Load Voltage (V) | 92V |
| Protection Class | IP21S |
| Insulation Class | H |
| Minimum Generator (kVA) | 12 |
| Dinse Connector | 35/50 |
| Standard | AS 60974.1 |
| Welds | <p>MIG: Mild Steel, Stainless Steel, Aluminium, Silicon Bronze</p> <p>MMA: Mild Steel, Stainless Steel, Cast Iron</p> <p>TIG: Mild Steel, Stainless Steel, Aluminium, Copper, Silicon Bronze, Titanium, Magnesium, Zinc Alloys</p> |
| Warranty (Years) | 5 |

MIG Specifications

| | |
|-----------------------------|---|
| MIG Welding Current Range | 20-250A |
| MIG Duty Cycle @ 40°C | 20% @ 250A 60% @ 144A 100% @ 112A |
| MIG Wire Size Range | 0.6-1.2mm |
| MIG Wire Spool Size | 5kg (200mm) / 15kg (300mm) |
| MIG Welding Thickness Range | 1-12mm |
| Drive Roller Size | 37/24 |

TIG Specifications

| | |
|-----------------------------|---|
| TIG Function Type | AC/DC HF TIG & AC/DC Pulse |
| TIG Welding Current Range | 3-250A |
| TIG Duty Cycle @ 40°C | 30% @ 250A 60% @ 177A 100% @ 137A |
| TIG Welding Thickness Range | 1-10mm |

MMA Specifications

| | |
|-----------------------------|---|
| MMA Welding Current Range | 10-230A |
| MMA Duty Cycle @ 40°C | 20% @ 230A 60% @ 133A 100% @ 103A |
| MMA Electrode Range | 2.5-4.0mm |
| MMA Welding Thickness Range | 2-12mm |

Size & Weight

| | |
|-----------------|-------------|
| Dimensions (mm) | 810x280x520 |
| Weight (kg) | 34.5 |



ENVY WIRE FEEDER

Get the added flexibility of a Separate Wire Feeder unit for extra manoeuvrability from the machine.

- Get up to 10m of extra length with the interconnecting cables
- Houses 300D/15kg spools
- Features a digital four geared wire drive

Specifications

| | |
|------------------------------|----------------------------|
| SKU | U11244 |
| Primary Input Voltage | 240V Single-Phase 50/60Hz |
| Wire Speed | 1.5~24m/min |
| MIG Wire Spool Size | 5kg (200mm) / 15kg (300mm) |

| | |
|-------------------------|----------------------|
| Standard | AS 60974.1 |
| Protection Class | IP23S |
| Weight | 14.3kg |
| Suits | ENVY MULTI 250 AC/DC |



W50 WATER COOLER

The perfect accessory, the W50 Water Cooler helps maximise your welding performance.

- Weld at higher amperages and for longer periods of time without overheating
- Extend the life of the torch consumables when combined with a water-cooled torch
- The Flow & Temperature monitors keep the coolant flowing without overheating for smooth operation

Specifications

| | |
|------------------------------|---------------------------|
| SKU | U11243 |
| Primary Input Voltage | 240V Single-Phase 50/60Hz |
| Input Current | 0.8A |
| Tank Volume | 5L |
| Max Distance | 35m |
| Max Flow | 10L/min |

| | |
|-----------------------|----------------------|
| Input Capacity | 220W |
| Size | 740x265x260mm |
| Weight | 16kg |
| Suits | ENVY MULTI 250 AC/DC |



T40 TROLLEY

Maximise your flexibility, portability and manoeuvrability with the T40 Trolley.

- Transport your machine and gas gear wherever you need
- Easily secure the ENVY MULTI 250 AC/DC to the trolley
- Holds up to a G size gas cylinder

RECOMMENDED ACCESSORIES



M350 MIG Torch

SKU: U11607 (3m)
SKU: U11608 (4m)



M580W Water-Cooled MIG Torch

SKU: U11609 (3m)
SKU: U11610 (4m)



300A Push-Pull Gun

SKU: U11241



T3W Water-Cooled TIG Torch

SKU: T3W-3KHL-4M (4m)
SKU: T3W-3KHL-8M (8m)



M350 MIG Torch Starter Kit

SKU: U11075



T2/T3W/T4W Starter Kit

SKU: U42005



T2/T3W/T4W Super Series Kit

SKU: U42006



ENVY Foot Pedal

SKU: U11100 (Wireless)
SKU: U11104 (Wired)

ADDITIONAL FEATURES

Foot Control Ready

This machine supports the connection of both a wired or wireless foot control for extra versatility and convenience while welding. You can adjust your amperage hands-free to avoid disrupting your torch movement, and the wireless option reduces cables and adds greater manoeuvrability as well.

Heat Control Trigger (HCT) Mode

Heat Control Trigger Mode lets you set a base current, which you can switch to at any time during a weld by pressing the trigger button. Heat Control Trigger Mode is great for manual heat input control as you go.

Smart Fan

Smart Fan diminishes noise, saves power, helps reduce energy costs, and minimises the number of contaminants being pulled through the machine.

Robotic Connection

The robot connection lets you integrate a robotic arm into your workflow, which can improve the precision, consistency, and efficiency across welding tasks. It allows for automated, repeatable welds, reducing human error and improving productivity.

Job Memory

The job memory function allows you to enter and store weld parameter settings. Weld parameters can be further adjusted and stored as required. A total of 100 Jobs can be memorised and stored for recall.

Generator Compatible

Take it anywhere. Connect the machine to a generator and use it wherever, whenever you need it. We recommend 12kVA for this machine.

Dual Gas Inputs

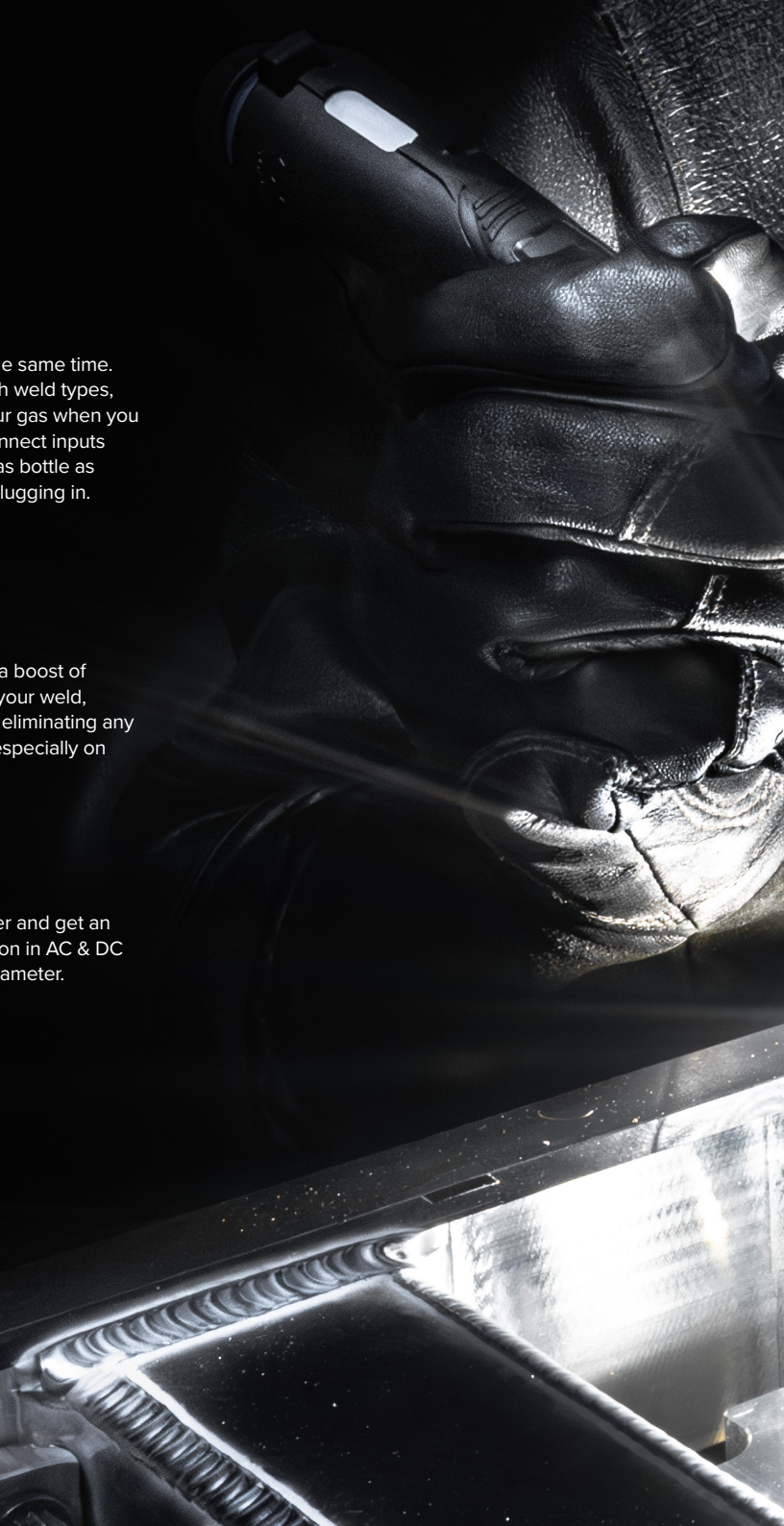
Set up for MIG and TIG at the same time. With dual gas inputs for both weld types, you won't need to swap your gas when you swap torches. The quick connect inputs also make replacing your gas bottle as simple as unplugging and plugging in.

Hot Start

The Hot Start feature gives a boost of current at the beginning of your weld, stabilising your ignition and eliminating any issues with striking an arc, especially on difficult electrodes.

Tungsten Optimiser

Select the tungsten diameter and get an optimised welding arc ignition in AC & DC TIG based on the chosen diameter.





UNIMIG

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