

UNIMIG EVOLVE



RANGE OVERVIEW



Modular Add Ons.

Futureproof your purchase with the EVOLVE range, with the option to add additional modules as you need them. These optional modules include a Separate Wire Feeder (SWF) module, an AC/DC TIG module, a Water Cooler module and a trolley with a drawer.



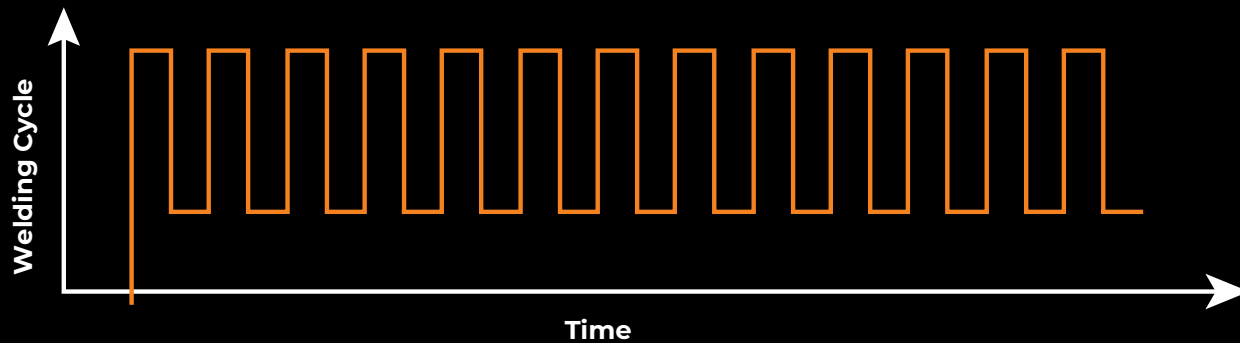
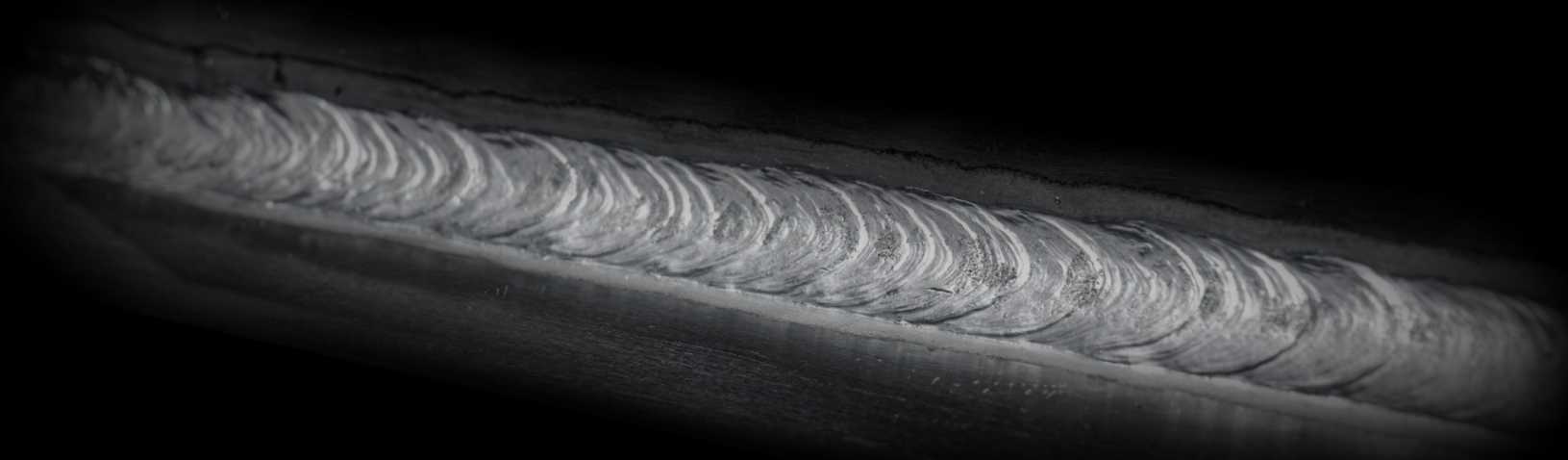
⚡

Power Sense Technology.

Experience unmatched flexibility with dual voltage power sense. Connect the three-phase to single-phase plug adapter and switch between 32A three-phase and 15A single-phase plugs as you need. When in single-phase, the machine's output is limited to a maximum of 250A.

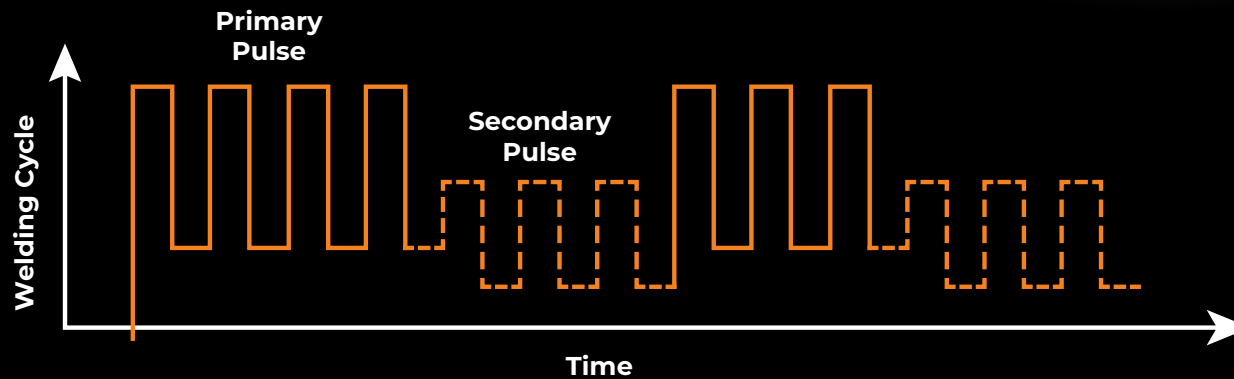
Not available on the EVOLVE MULTI 500 PULSE.

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.



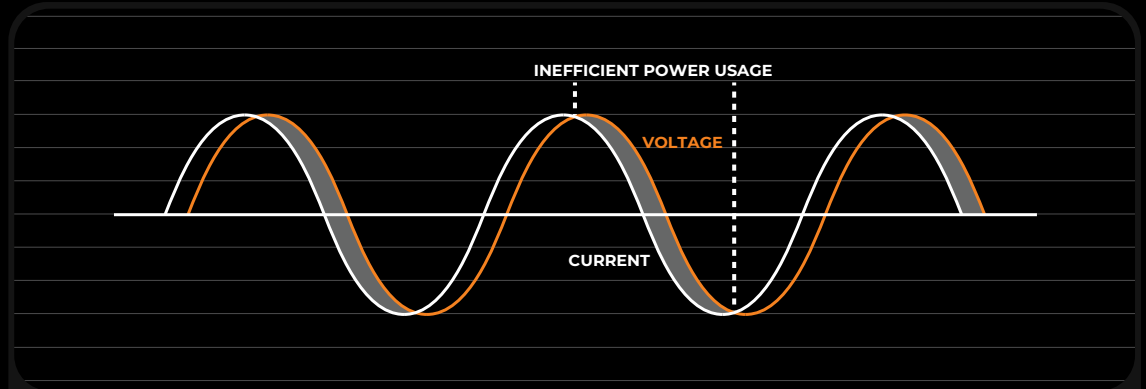
A double pulse weld alternates between a peak current and two base currents, reducing the heat input of the weld even further than single pulse, while still maintaining all of the benefits. Because of the faster freezing puddle, your double pulse welds come out looking just like a stack of dimes. You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

MACHINE FEATURES



5" LCD Touchscreen

Navigation has never been easier. With the 5" 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.

*Not available on the EVOLVE MULTI 500 PULSE



IP21S

Rated IP21S, so it's protected from touch by fingers and objects greater than 12mm, and water spray from vertical while still.

 IP21S disclaimer: Above image is for marketing purposes only. Do not weld in the rain or in wet, moist, or damp areas. Ensure machine and work area are dry before welding.

MIG FEATURES



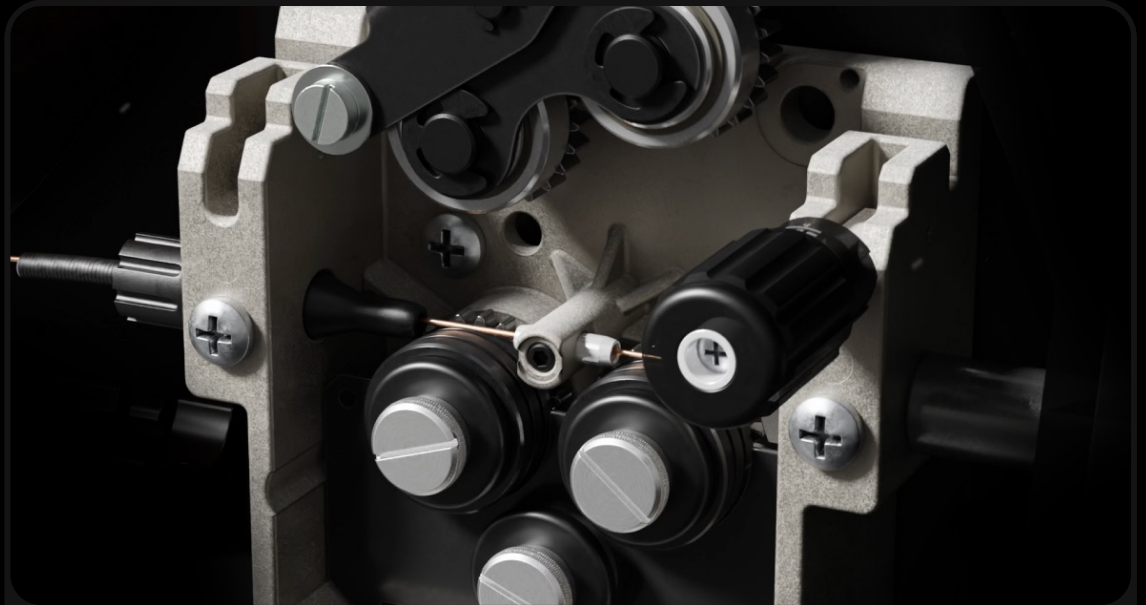
Digital Control Torch

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.



100+ Smart-Set MIG Programs

Getting set up for a weld has never been faster with over 100 synergic programs. Simply select your metal type, wire size, gas type and material thickness, and the machine does the rest. It'll pick the optimal settings for your weld.



4 Geared Wire Drive

The most consistent and smoothest wire-feeding experience there is. With a four geared wire drive unit, there's more power pushing the wire, improving the wire-feeding, especially with longer torches.



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

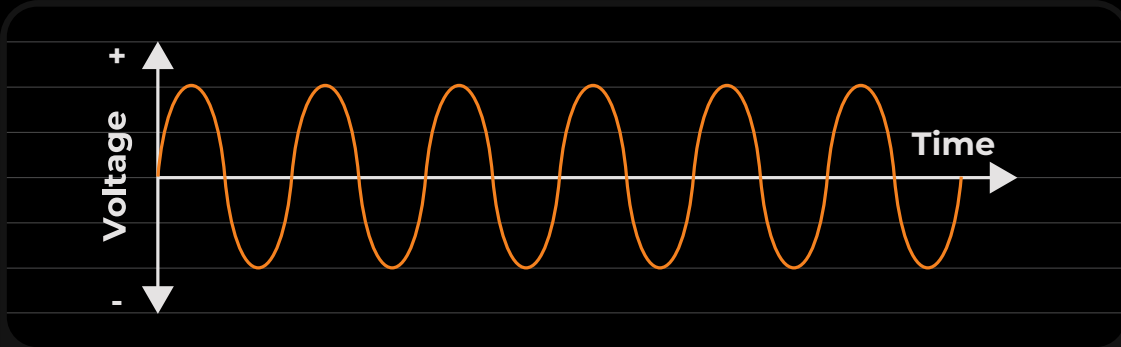
End your welds as strong as they started. Crater Fill ramps your welding current and voltage down at the end of a weld, filling it in at a lower amperage, eliminating craters and pinholes.



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.





AC MIG*

Get even more control over your aluminium MIG welds. The alternating current (AC) gives you the heat input and the cleaning action usually reserved for AC TIG.

**Requires AC/DC Module*



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.



AC Welding Speed*

Increase your efficiency with the advanced AC Welding Speed. By setting the rate the wire is deposited during the negative portion of the AC cycle, you can adjust your welding speed while still maintaining your desired arc length.

**Requires AC/DC Module*

TIG FEATURES



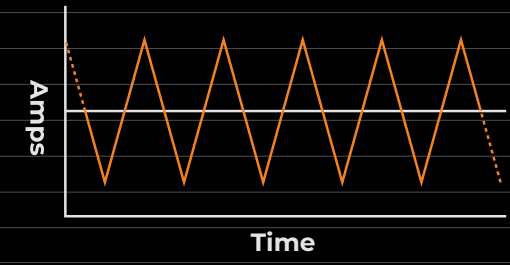
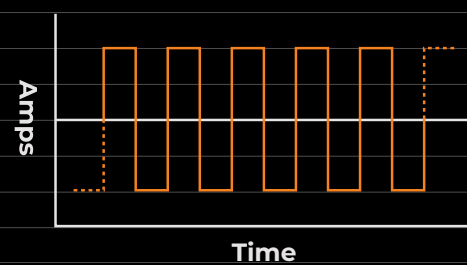
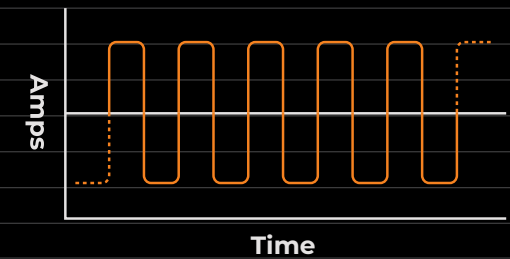
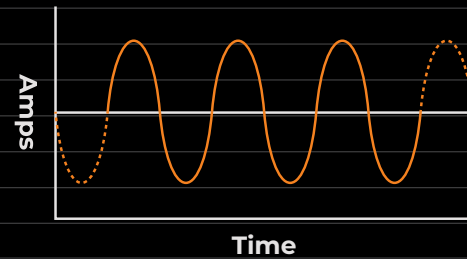
⚡ AC/DC TIG

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).



T High-Frequency TIG

Maximise your results from start to finish. A high-frequency torch can start an arc without contacting the workpiece, reducing the risk of contaminating the tungsten or the weld. It also means you get access to the entire TIG weld cycle, including pre- and post-gas and up and down slope parameters.



Multiple AC Waveforms

Completely customise your aluminium welds. Switch between Sine, Square, Trapez and Triangle waves, or use a combination of the two, to change the arc characteristics, bead profile, and penetration to suit your weld.



Foot Pedal

Enjoy greater control and precision with our optional foot control accessory. This handy feature allows you to easily adjust your TIG amperage on the fly, without interrupting your torch movement.



Maximum AC Amperage

Set the maximum current of the positive side of the AC cycle the machine can reach. By reducing the amperage of the positive portion of the cycle, the negative portion works to compensate, allowing for a more penetrative weld and reduced risk of the tungsten melting.



Mixed TIG

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.



⚡ Power Limit

The adjustable power limit is designed to help maintain a constant power level while welding. Power limit automatically drops the current to a set limit and prevents it from rising to maintain a constant power when the electrode is lifted from the weld pool.



🛡️ 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.

EVOLVE MULTI 500 PULSE



MIG **STICK**

5 YEAR
WARRANTY

Specifications

SKU	U11142
Primary Input Voltage	415V Three-Phase
Supply Plug	32A
I _{eff} (A)	25A
I _{max} (A)	34.8A
Rated Output	20-500A
No Load Voltage (V)	80
Protection Class	H
Insulation Class	IP21S
Minimum Generator (kVA)	19kVA
Dinse Connector	35/50
Standard	AS 60974.1
Welds	MIG: Mild Steel, Stainless Steel, Aluminium, Silicon Bronze MMA: Mild Steel, Stainless Steel, Cast Iron
Warranty (Years)	5

Size & Weight

Dimensions (mm)	842x302x395
Weight (kg)	117

MIG Specifications

MIG Welding Current Range	20-500A
MIG Duty Cycle @ 40°C	60% @ 500A 100% @ 400A
MIG Wire Size Range	0.6-1.6mm
MIG Wire Spool Size	5kg (200mm) 15kg (300mm)
MIG Welding Thickness Range	0.6-20mm (Single Pass) >20mm (Multi Pass)
Drive Roller Size	30/22

MMA Specifications

MMA Welding Current Range	20-500A
MMA Duty Cycle @ 40°C	60% @ 500A 100% @ 400A
MMA Electrode Range	1.6-6.0mm
MMA Welding Thickness Range	2-10mm (Single Pass) >10mm (Multi Pass)

EVOLVE MULTI 400 PULSE



5 YEAR
WARRANTY

Specifications

SKU	U11119
Primary Input Voltage	240V Single-Phase / 415V Three-Phase
Supply Plug	32A
I _{eff} (A)	14.4A (240V Single-Phase) / 18.3A (415V Three-Phase)
I _{max} (A)	32.2A (240V Single-Phase) / 23.6A (415V Three-Phase)
Rated Output	20A-250A (240V Single-Phase) / 20A-400A (415V Three-Phase)
No Load Voltage (V)	70
Protection Class	H
Insulation Class	IP21S
Minimum Generator (kVA)	13kVA (240V Single-Phase) / 23kVA (415V Three-Phase)
Dinse Connector	35/50
Standard	AS 60974.1
Welds	MIG: Mild Steel, Stainless Steel, Aluminium, Silicon Bronze MMA: Mild Steel, Stainless Steel, Cast Iron
Warranty (Years)	5

Size & Weight

Dimensions (mm)	842x302x395
Weight (kg)	85

MIG Specifications

MIG Welding Current Range	20A-250A (240V Single-Phase) / 20A-400A (415V Three-Phase)
MIG Duty Cycle @ 40°C	240V Single-Phase: 20% @ 250A, 60% @ 144A, 100% @ 112A 415V Three-Phase: 60% @ 400A, 100% @ 310A
MIG Wire Size Range	0.6-1.6mm
MIG Wire Spool Size	5kg (200mm) / 15kg (300mm)
MIG Welding Thickness Range	0.6-20mm (Single Pass) >20mm (Multi Pass)
Drive Roller Size	30/22

MMA Specifications

MMA Welding Current Range	20A-225A (240V Single-Phase) / 20A-400A (415V Three-Phase)
MMA Duty Cycle @ 40°C	240V Single-Phase: 20% @ 225A, 60% @ 130A, 100% @ 100A 415V Three-Phase: 60% @ 400A, 100% @ 310A
MMA Electrode Range	1.6-6.0mm
MMA Welding Thickness Range	2-10mm (Single Pass) >10mm (Multi Pass)

EVOLVE MULTI 300 PULSE



MIG **STICK**

5 YEAR
WARRANTY

Specifications

SKU	U11130
Primary Input Voltage	240V Single-Phase / 415V Three-Phase
Supply Plug	32A
I _{eff} (A)	14.2 (Single-Phase) / 12.4 (Three-Phase)
I _{max} (A)	36.7A (Single-Phase) / 16.0A (Three-Phase)
Rated Output	20A-250A (240V Single-Phase) / 20A-300A (415V Three-Phase)
No Load Voltage (V)	70
Protection Class	H
Insulation Class	IP21S
Minimum Generator (kVA)	13 (240V Single-Phase) / 17 (415V Three-Phase)
Dinse Connector	35/50
Standard	AS 60974.1
Welds	MIG: Mild Steel, Stainless Steel, Aluminium, Silicon Bronze MMA: Mild Steel, Stainless Steel, Cast Iron
Warranty (Years)	5

Size & Weight

Dimensions (mm)	820x332x462
Weight (kg)	44

MIG Specifications

MIG Welding Current Range	20A-250A (240V Single-Phase) / 20A-300A (415V Three-Phase)
MIG Duty Cycle @ 40°C	240V Single-Phase: 15% @ 250A, 60% @ 125A, 100% @ 97A 415V Three-Phase: 60% @ 300A, 100% @ 232A
MIG Wire Size Range	0.6-1.2mm
MIG Wire Spool Size	5kg (200mm) 15kg (300mm)
MIG Welding Thickness Range	0.6-20mm (Single Pass) >20mm (Multi Pass)
Drive Roller Size	30/22

MMA Specifications

MMA Welding Current Range	20A-200A (240V Single-Phase) / 20A-300A (415V Three-Phase)
MMA Duty Cycle @ 40°C	240V Single-Phase: 20% @ 200A, 60% @ 115A, 100% @ 89A 415V Three-Phase: 60% @ 300A, 100% @ 232A
MMA Electrode Range	1.6-4.0mm
MMA Welding Thickness Range	2-10mm (Single Pass) >10mm (Multi Pass)



EVOLVE AC/DC MODULE

The AC/DC module lets you add the ability to TIG weld on your MIG machine, as well as AC MIG programs.

- Adds high-frequency AC & DC TIG
- Advanced AC MIG settings and features
- AC MIG gives you the heat input and the cleaning action usually reserved for AC TIG

Specifications

SKU	U11147
Protection Class	IP21S
Insulation Class	H
Dinse Connector	35/50
Standard	AS 60974.1
Welds	Aluminium, Magnesium, Zinc Alloys, Mild Steel, Stainless Steel, Copper, Silicon Bronze, Titanium

Warranty (Years)	5
TIG Function Type	HF AC/DC
TIG Welding Current Range	5-500A



EVOLVE WATER COOLER MODULE

The perfect accessory, the EVOLVE 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
- Compatible with all models and additional modules

Specifications

SKU	U11146
Capacity	5-400A

Standard	AS 60974.1
Warranty (Years)	5



EVOLVE SWF MODULE

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

- Configure the machine's reach to suit your needs with up to 50m interconnecting cables available
- Houses 300D/15kg spools
- Features a four geared wire drive
- Supplied with 10m lead set, supports up to 50m lead sets

Specifications

SKU	U11150
Standard	AS 60974.1

Warranty (Years)	5
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EVOLVE PACKAGES



EVOLVE MULTI 300 PULSE M350 PACKAGE

Package Contents:

- EVOLVE MULTI 300 PULSE Power Source
- M350 Air-Cooled MIG Torch



EVOLVE MULTI 400 PULSE M350 TROLLEY PACKAGE

Package Contents:

- EVOLVE MULTI 400 PULSE Power Source
- EVOLVE Trolley with Drawer
- M350 Air-Cooled MIG Torch



EVOLVE MULTI 300 PULSE M350 TROLLEY PACKAGE

Package Contents:

- EVOLVE MULTI 300 PULSE Power Source
- EVOLVE Trolley with Drawer
- M350 Air-Cooled MIG Torch



EVOLVE MULTI 400 PULSE M580W WATER-COOLED PACKAGE

Package Contents:

- EVOLVE MULTI 400 PULSE Power Source
- EVOLVE Water Cooler Module
- EVOLVE Trolley
- M580W Water-Cooled MIG Torch



EVOLVE MULTI 400 PULSE M350 PACKAGE

Package Contents:

- EVOLVE MULTI 400 PULSE Power Source
- M350 Air-Cooled MIG Torch



EVOLVE MULTI 500 PULSE M580W WATER-COOLER TROLLEY PACKAGE

Package Contents:

- EVOLVE MULTI 500 PULSE Power Source
- EVOLVE Water Cooler Module
- EVOLVE Separate Wire Feeder (SWF) Module
- EVOLVE Trolley
- M580W Water-Cooled MIG Torch

Recommended Accessories



EVOLVE Trolley With Drawer

U11149



T4W Water-Cooled TIG Torch

U11209 (4m)

U11210 (8m)



400A Water-Cooled Digital Push-Pull Gun

U11221 (8m)



HYPERMIG 5356 Premium Aluminium MIG Wire

U11162 (1.0mm)

U11163 (1.2mm)

Additional Features

Robotics 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

Save all of your favourite settings with the Job Memory feature. With up to 100 saves available, you'll never need to memorise your parameters again. Plus, seamlessly switch between different jobs with the touch of a button.

CO₂ Preheater Plug

Connect a preheater for your CO₂ regulator with the preheater plug to prevent it from freezing during prolonged use. Keeping the gas heated allows a consistent gas flow and stops fluctuations or reductions in the gas flow.

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.

Inverter Technology

Not every inverter is made equal. With UNIMIG's ever-evolving, state-of-the-art IGBT Inverter technology, you get better performance, better efficiency, and better reliability.

Generator Compatible

Take it anywhere. Connect the machine to a generator and use it wherever, whenever you need it.

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.