LINIMIE EVOLVE





EVOLVE MULTI 400 PULSE



Package Contents

- EVOLVE MULTI 400 Power Source
- EVOLVE Water Cooler Module
- EVOLVE Trolley
- 3m M580W MIG Torch
- 500 Amp Twist Lock Electrode Holder

• 500 Amp Earth Clamp & Lead

- Twin Gauge Argon Regulator
- 1.8m Quick-Conncect Gas Hose
- Operating Manual
- 2 x 1.0-1.2mm U Groove Roller
- 2 x 1.2-1.6mm U Groove Roller
- 2 x 0.9-1.2mm V Groove Roller
- 2 x 1.2-1.6mm V Groove Roller
- Consumable Kit

Technical Data

Parameter	Values
SKU	U11119
Primary Input Voltage	240V Single-Phase / 415V Three-Phase
Supply Plug	32A
leff (A)	14.4A (240V Single-Phase) / 18.3A (415V Three-Phase)
Imax (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)	70V
Protection Class	н
Insulation Class	IP23S
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

MIG Specifications

Parameter	Values
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

Parameter	Values
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)

Key Features

Modular Add Ons

Futureproof your purchase with the EVOLVE MULTI 400 PULSE, 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 and a Plasma Cutting module for all your future needs.

Power Sense

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

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.

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 wirefeeding, especially with longer torches.

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.

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.

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.

Power Factor Correction (PFC)

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.

Inverter Technology

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

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.

Generator Compatible

Take it anywhere. Connect the machine to a generator and use it wherever, whenever you need it. We recommend 19kVA for this machine.

IP23S

Rated IP23S, so it's protected from touch by fingers and objects greater than 12mm, and water spray less than 60° from vertical while still.

MIG Features

Single & Double Pulse MIG

No spatter. Less heat. Same penetration. Streamline your welds with the single and double pulse functions.

Single pulse

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

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.

100+ Smart-Set MIG Progams

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.

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.

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.

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.

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.

The adjustable arc force 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 AC/DC TIG MODULE



Technical Data

Parameter	Values
SKU	U11142
Rated Output	5-400A
Protection Class	Н
Insulation Class	IP23
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 Specifications

Parameter	Values
TIG Function Type	HF AC/DC
TIG Welding Current Range	5-400A
TIG Duty Cycle @ 40°C	60% @ 400A

MIG Features

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.

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.

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).

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.

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.

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.

EVOLVE MULTI 400 PULSE Parts List

M350/M580W Consumables

SKU	Description

U11076 CO U11050 CO U11051 CO U11052 CO U11053 CO U11054 CO U11055 CO U11054 CO U11045 CO	INSUMABLE STARTER KIT SUIT M350 INSUMABLE STARTER KIT SUIT M580W INTACT TIP ALUMINIUM 1.0MM SUIT M350/M580W QTY 10 INTACT TIP ALUMINIUM 1.2MM SUIT M350/M580W QTY 10 INTACT TIP ALUMINIUM 1.6MM SUIT M350/M580W QTY 10 INTACT TIP STEEL 0.8MM SUIT M350/M580W QTY 10 INTACT TIP STEEL 0.9MM SUIT M350/M580W QTY 10 INTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 INTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 INTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
U11050 CO U11051 CO U11052 CO U11053 CO U11045 CO U11046 CO	NTACT TIP ALUMINIUM 1.0MM SUIT M350/M580W QTY 10 NTACT TIP ALUMINIUM 1.2MM SUIT M350/M580W QTY 10 NTACT TIP ALUMINIUM 1.6MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 0.8MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 0.9MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
U11051 CO U11052 CO U11053 CO U11045 CO U11046 CO	NTACT TIP ALUMINIUM 1.2MM SUIT M350/M580W QTY 10 NTACT TIP ALUMINIUM 1.6MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 0.8MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 0.9MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
U11052 CO U11171 CO U11045 CO U11046 CO	NTACT TIP ALUMINIUM 1.6MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 0.8MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 0.9MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.2MM SUIT M350/M580W QTY 10
U11171 CO U11045 CO U11046 CO	ONTACT TIP STEEL 0.8MM SUIT M350/M580W QTY 10 ONTACT TIP STEEL 0.9MM SUIT M350/M580W QTY 10 ONTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 ONTACT TIP STEEL 1.2MM SUIT M350/M580W QTY 10 ONTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
U11045 CO U11046 CO	NTACT TIP STEEL 0.9MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.2MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
U11046 CO	NTACT TIP STEEL 1.0MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.2MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
	NTACT TIP STEEL 1.2MM SUIT M350/M580W QTY 10 NTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
U11047 CO	NTACT TIP STEEL 1.6MM SUIT M350/M580W QTY 10
U11048 CO	S NOZZLE WITH INSULATOR CONICAL SUIT M350 QTY 2
U11055 GA	
	S NOZZLE WITH INSULATOR CONICAL SUIT M580W Y 2
U11056 GA	S NOZZLE WITH INSULATOR CYLINDRICAL SUIT M350 Y 2
U11059 GA QT	S NOZZLE WITH INSULATOR CYLINDRICAL SUIT M580W Y 2
U11054 GA	S NOZZLE WITH INSULATOR TAPERED SUIT M350 QTY 2
	S NOZZLE WITH INSULATOR TAPERED SUIT M580W Y 2
U11065 LIN	IER COMBINATION 0.8-1.2MM 3M SUIT M350 QTY 1
U11066 LIN	IER COMBINATION 0.8-1.2MM 4M SUIT M350 QTY 1
U11067 LIN	IER COMBINATION 1.0-1.2MM 3M SUIT M580W QTY 1
U11068 LIN	IER COMBINATION 1.0-1.2MM 4M SUIT M580W QTY 1
U11069 LIN	IER COMBINATION 1.6-2.0MM 3M SUIT M580W QTY 1
U11070 LIN	IER COMBINATION 1.6-2.0MM 4M SUIT M580W QTY 1
U11178 LIN	IER STEEL 0.6-0.9MM 3M SUIT M350 QTY 1
U11179 LIN	IER STEEL 0.6-0.9MM 4M SUIT M350 QTY 1
U11180 LIN	IER STEEL 1.0-1.2MM 3M SUIT M350 QTY 1
U11174 LIN	IER STEEL 0.8-1.2MM 3M SUIT M580W QTY 1
U11181 LIN	IER STEEL 1.0-1.2MM 4M SUIT M350 QTY 1
U11175 LIN	IER STEEL 0.8-1.2MM 4M SUIT M580W QTY 1
U11176 LIN	IER STEEL 1.6-2.0MM 3M SUIT M580W QTY 1
U11177 LIN	IER STEEL 1.6-2.0MM 4M SUIT M580W QTY 1
U11079 SW	AN NECK SUIT M350
U11080 SW	AN NECK SUIT M580W
U11060 TIP	ADAPTER SUIT M350 QTY 2
U11063 TIP	ADAPTER SUIT M580W QTY 2
U11064 TIP	ADAPTER INSULATOR SUIT M580W QTY 2
U11077 TO	RCH MODULE BLANK SUIT M350/M580W
U11078 TO	RCH MODULE DIGITAL SUIT M350/M580W

EVOLVE Range

SKU	Description
U11130	EVOLVE MULTI 300
U11119	EVOLVE MULTI 400
U11142	EVOLVE MULTI 500

Torches

SKU	Description
U11209	TIG TORCH T4W 35/50 4M
U11210	TIG TORCH T4W 35/50 8M
U11071	MIG TORCH M350 3M
U11072	MIG TORCH M350 4M
U11073	MIG TORCH M580W 3M
U11074	MIG TORCH M580W 4M

EVOLVE Modules

SKU	Description
U11147	EVOLVE AC/DC MODULE
U11150	EVOLVE SWF MODULE
U11146	EVOLVE WATER COOLER MODULE

Accessories

SKU	Description
U51023	WIRED FOOT PEDAL - 12/2 PIN
U11028	LOW CONDUCTIVITY COOLANT 4L
U11162	5356 ALUMINIUM MIG WIRE PREMIUM 1.0MM 7KG
U11163	5356 ALUMINIUM MIG WIRE PREMIUM 1.2MM 7KG
U11073	MIG TORCH M580W 3M
U11074	MIG TORCH M580W 4M