



Designed for welders



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# MinarcMig Auto

BIG POWER FROM A SMALL MIG/MAG WELDING MACHINE





## MinarcMig Auto



### BIG POWER FROM A SMALL MIG/MAG WELDING MACHINE

**MinarcMig Auto 190/220** welding machines are crafted to meet the distinct needs of welders on the move, combining the convenience of a portable and lightweight design with **high-performance MIG/MAG welding capabilities**.

Every welder develops unique methods and skills through years of dedicated learning. The new MinarcMig Auto welding machines seamlessly integrate significant MIG/MAG welding capacity and top-tier quality into a small portable machine that caters to a wide range of projects.

The **MinarcMig 190 Auto and 220 Auto** models feature automatic and manual mode set-ups as well as an adaptive arc regulation system to ensure precise welding quality and accurate ignition. Simplify the welding process – just take MinarcMig, select the material type and the plate thickness, and start welding. It is compatible with various materials, including steel, stainless steel, aluminum, and CuSi brazing filler wires.

These little giants deliver portable MIG/MAG welding power, offering 190 amps at a 35% duty cycle or 220 amps at a 20% duty cycle from a 16 A, 1-phase mains supply.

The ready-to-weld MinarcMig 190 Auto and 220 Auto MIG/MAG welding machines come with the **new Flexlite GC MIG welding torch**, which includes integrated cable bending support and an ergonomic gun handle.

MinarcMig Auto models ensure premium results, allowing you to celebrate your perfected welding skills wherever your work takes you.



## KEY BENEFITS



### POWERFUL PERFORMANCE ANYWHERE

Secure excellent weld quality every time, everywhere. The best-level welding power from a 1-phase 230V power supply provides flexibility in choosing and moving around worksites.



### EASE OF USE

An intuitive and user-friendly interface makes operating the machine easy for both experienced welders and beginners. The AUTO setting by material type and plate thickness simplifies the welding process and improves welding quality.



### ENHANCED MOBILITY AND EFFORTLESS WELDING

Experience the freedom to weld effortlessly. The lightweight and portable design allows easy and safe movement.

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## BENEFITS

- Precise weld quality and arc ignition with adaptive regulation
- Just select material type and the plate thickness and weld in auto mode
- 220A / 190A MIG/MAG welding power from a 16A supply
- Automatic or manual model power regulation
- Compatible with Fe, Fe FCW, Ss, Al, CuSi filler wires, 1 kg, and 5 kg wire spools
- A large graphical backlit display guides you in low-light conditions
- Designed for use with long power extension cables (up to 100m)
- A 3-meter welding torch with an ergonomic gun handle, cable set, and carrying strap included.
- Suitable for mains network or generator use
- 3-year warranty



## PRODUCT OPTIONS



### MinarcMig 190 Auto

A 14.2 kg, portable MIG/MAG welding machine providing 190 A with a 35% duty cycle from a 16 A, single-phase mains supply. Manual and synergic welding options available. Compatible with a wide range of materials, including steel (Fe), stainless steel (Ss), aluminum (Al), and CuSi brazing filler wires. A 3-meter welding torch with an ergonomic gun handle, cable set, and carrying strap included.



### MinarcMig 220 Auto

A 14.2 kg, portable MIG/MAG welding machine providing 220 A with a 20% duty cycle from a 16 A single-phase mains supply. Manual and synergic welding options available. Compatible with a wide range of materials, including steel (Fe), stainless steel (Ss), aluminum (Al), and CuSi brazing filler wires. A 3-meter welding torch with an ergonomic gun handle, cable set, and carrying strap included.



### MinarcMig 190 Auto AU

A 14.2 kg, portable MIG/MAG welding machine providing 190 A with a 35% duty cycle from a 16 A, single-phase mains supply. Manual and synergic welding options available. Compatible with a wide range of materials, including steel (Fe), stainless steel (Ss), aluminum (Al), and CuSi brazing filler wires. A 3-meter welding torch with an ergonomic gun handle, cable set, and carrying strap included. This model is specifically for the Australian market due to the different mains plug fitted and VRD active.



### MinarcMig 220 Auto AU

A 14.2 kg, portable MIG/MAG welding machine providing 220 A with a 20% duty cycle from a 16 A single-phase mains supply. Manual and synergic welding options available. Compatible with a wide range of materials, including steel (Fe), stainless steel (Ss), aluminum (Al), and CuSi brazing filler wires. A 3-meter welding torch with an ergonomic gun handle, cable set, and carrying strap included. This model is specifically for the Australian market due to the different mains plug fitted and VRD active.



## FEATURES



### Just select the material type and the plate thickness and weld

MinarcMig 190 and 220 Auto simplify the welding process. Select the material type and the plate thickness and weld in auto mode. Easy single-knob control allows you to change settings while the intuitive and user-friendly interface guides you through the process, leaving no room for guessing.



### Wherever work takes you

Lightweight and small MinarcMig Auto models are ideal welding machines for mobile welders. They pack huge welding capacity into a small size, ensuring premium results anywhere.



### A ready-to-weld package

MinarcMig 190 and 220 Auto models come with a completely new 3-meter Flexlite GC MIG/MAG welding torch with integrated cable bending support and an ergonomic gun handle.



### Energy efficiency and welding utility

PFC power source technology offers the ultimate energy efficiency with a power factor of 0.99. Designed to be used with long power extension cables of up to 100 m, allowing for optimum welding utility in on-site welding environments.



### Enhanced welding ergonomics

MinarcMig Auto package includes a new Flexlite GC welding torch. Flexlite GC 223G welding torch has an ergonomic and anatomically shaped gun handle, included in a standard package. Also, we have improved the cable design to be more flexible.

Together, these features ensure natural wrist position regardless of welding position, leading to effortless, ergonomic, and less muscle-loading work.





## ACCESSORIES



### GC 223G

220 A, Gas-cooled, 3m, MinarcMig Connector



### MST 400

Suitable for MinarcMig, MinarcMig Evo, MinarcTig, MinarcTig Evo, and Minarc 220.

The MST 400 is a 2-wheel transport unit that is recommended for smaller gas bottle sizes.



### Earth return cable 25 mm<sup>2</sup>, 3 m

3-meter earth return cable with 25 mm<sup>2</sup> cross-sectional area. The earth return cable completes the electrical circuit for welding. The cable is connected from the welding power source to the workpiece.



### Shoulder strap



### Shielding gas hose 4.5 m



### Euro Adapter for MinarcMig

Euro Adapter for MinarcMig takes your connectivity to a whole new level.



## TECHNICAL SPECIFICATIONS

### MinarcMig 190 Auto

Product code	61008190
Connection voltage 1~ 50/60 Hz	230 V ±15%
Welding range	20 A / 15 V...190 A / 26 V
Output 35% ED	190 A
Output 60% ED	140 A
Output 100% ED	100 A
Open circuit voltage	70...75 V
Wire feed mechanism	2-roll, single-motor
Wire spool weight, max.	5 kg
Wire spool diameter, max.	200 mm
Mains fuse	16 A
Shielding gas pressure (max)	0.5 MPa
External dimensions LxWxH	450 x 227 x 368 mm
Weight (no accessories)	14.2 kg
Degree of protection	IP23
Standards	IEC 60974-1, -5, -10, IEC 61000-3-12
EMC class	A
Operating temperature range	-20...40 °C
Storage temperature range	-40...60 °C

### MinarcMig 220 Auto

Product code	61008220
Connection voltage 1~ 50/60 Hz	230 V ±15%
Welding range	20 A / 15 V...220 A / 28 V
Output 20% ED	220 A
Output 60% ED	160 A
Output 100% ED	120 A
Open circuit voltage	70...75 V
Wire feed mechanism	2-roll, single-motor
Wire spool weight, max.	5 kg
Wire spool diameter, max.	200 mm
Mains fuse	16 A
Shielding gas pressure (max)	0.5 MPa
External dimensions LxWxH	450 x 227 x 368 mm
Weight (no accessories)	14.2 kg
Degree of protection	IP23
Standards	IEC 60974-1, -5, -10, IEC 61000-3-12
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Mains fuse	15 A
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Weight (no accessories)	14.2 kg
Degree of protection	IP23
Standards	IEC 60974-1, -5, -10, IEC 61000-3-12, AS 60974.1
EMC class	A
Operating temperature range	-20...40 °C
Storage temperature range	-40...60 °C

## MinarcMig 220 Auto AU

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Connection voltage 1~ 50/60 Hz	230 V ±15%
Welding range	20 A / 15 V...220 A / 28 V
Output 60% ED	160 A
Output 100% ED	120 A
Open circuit voltage	70...75 V
Wire feed mechanism	2-roll, single-motor
Wire spool weight, max.	5 kg
Wire spool diameter, max.	200 mm
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Storage temperature range	-40...60 °C



## ACCESSORIES

### GC 223G

Product code	GC223GMM3 (3m) GC223GMIM3 (3m)
Load capacity, Ar + CO2 (35%)	220 A
Changeable neck	No
Rotating neck	Yes
Type of cooling	Gas
Welding process	MIG/MAG
Contact tip	M6
Wire diameters (mm)	0.6-1.0
Type of connection	MinarcMig
Compatible pistol grip handle	Yes

### MST 400

Product code	6185294
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### Earth return cable 25 mm<sup>2</sup>, 3 m

Product code	6184004
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### Shoulder strap

Product code	9592163
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### Shielding gas hose 4.5 m

Product code	W001077
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### Euro Adapter for MinarcMig

Product code	Euro adapter kit - W008366, Wire liner, 0.6-0.8 mm for Euro Adapter - SP008578, Red wire liner, 0.9-1.0 mm for Euro Adapter - SP008856
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**Kemppi** is the design leader in the arc welding industry. We are committed to boosting the quality and productivity of welding by continuous development of the welding arc and by working for a greener and more equal world. Kemppi supplies sustainable products, digital solutions, and services for professionals from industrial welding companies to single contractors. The usability and reliability of our products is our guiding principle. We operate with a highly skilled partner network covering over 70 countries to make its expertise locally available. Headquartered in Lahti, Finland, Kemppi employs close to 800 professionals in 16 countries and has a revenue of 195 MEUR in 2022.

