

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.

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 mm², 3 m

3-meter earth return cable with 25 mm² 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 \pm 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 \pm 15% |
| Welding range | 20 A / 15 V...220 A / 28 V |
| Output 20% ED | 220 A |
| | 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 |
| EMC class | A |
| Operating temperature range | -20...40 °C |
| Storage temperature range | -40...60 °C |



MinarcMig 190 Auto AU

| | |
|--------------------------------|--|
| Product code | 61008190AU |
| Connection voltage 1~ 50/60 Hz | 230 V \pm 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 | 15 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, AS 60974.1 |
| EMC class | A |
| Operating temperature range | -20...40 °C |
| Storage temperature range | -40...60 °C |

MinarcMig 220 Auto AU

| | |
|--------------------------------|--|
| Product code | 61008220AU |
| Connection voltage 1~ 50/60 Hz | 230 V \pm 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 |
| Mains fuse | 15 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, AS 60974.1 |
| EMC class | A |
| Operating temperature range | -20...40 °C |
| 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 |
|--------------|---------|

Earth return cable 25 mm², 3 m

| | |
|--------------|---------|
| Product code | 6184004 |
|--------------|---------|

Shoulder strap

| | |
|--------------|---------|
| Product code | 9592163 |
|--------------|---------|

Shielding gas hose 4.5 m

| | |
|--------------|---------|
| Product code | W001077 |
|--------------|---------|

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 |
|--------------|--|

WWW.KEMPPI.COM

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.

