

X3 MIG Welder

TOUGH AND RELIABLE





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Suitable for gas-cooled MIG/MAG welding and carbon arc gouging, the **X3 MIG Welder** is a smart investment for professional welders. It is packed with energy-efficient inverter technology and delivers up to 500 A at a 60% duty cycle. The system includes several special functions for fine-tuning the start and end of your welds. The X3 MIG Welder's stable arc guarantees high-quality welds, even with inexpensive CO₂ shielding gas.

Designed and manufactured in Finland, the X3 MIG Welder is a durable choice for tough welding conditions, whether you work at a construction site, shipyard, or metal fabrication workshop. The system's wire feeder features a fully enclosed and impact-resistant dual-skin cabinet to protect the wire spool and feed mechanism. The simple two-knob control panel is easy to use and isn't afraid of rough handling.

Available in Africa, Asia, Australia/New Zealand, Latin America and Russia



KEY BENEFITS



EXCELLENT PERFORMANCE

Delivers up to 500 A at 60% duty
cycle



SIMPLE TO USE

User interface designed for quick
and easy use



EASY TO MOVE

Ergonomically positioned
handles and lightweight

BENEFITS

- Powerful system for gas-cooled MIG/MAG welding and carbon arc gouging
- Built with reliable and energy-efficient IGBT inverter technology
- Connects to any 380-440 V 3-phase mains supply
- A 110-volt auxiliary voltage supply is available for an optional CO₂ shielding gas heater
- Accepts a wide range of wire diameters from 0.8 up to 1.6 mm, and with cored wires up to 2.0 mm
- Excellent arc stability reduces spatter and the need for post-weld grinding
- Special functions available for fine-tuning the start and end of welds
- Simple user interface with presets for Argon/CO₂ or pure CO₂ shielding gas
- Wire inch function is included as standard
- Clear presentation of welding parameters on a large back-lit LCD display
- Lightweight and easy to move, optional wheel sets available



PRODUCT OPTIONS



X3 Power Source 400

Energy-efficient power source for MIG/MAG welding and carbon arc gouging. Delivers 400 A at 60% duty cycle with any 3-phase 380-440 V power supply. Ergonomically positioned handles for easy movement from site to another.



X3 Power Source 400 AU

Energy-efficient power source for MIG/MAG welding. Delivers 400 A at 60% duty cycle with any 3-phase 380-440 V power supply. Ergonomically positioned handles for easy movement from site to another. Available for Australia and New Zealand only.



X3 Power Source 500

Energy-efficient power source for MIG/MAG welding and carbon arc gouging. Delivers 500 A at 60% duty cycle with any 3-phase 380-440 V power supply. Ergonomically positioned handles for easy movement from site to another.



X3 Wire Feeder 300

Precise adjustment of voltage and wire feed speed. Wire inch function is included as standard. Fully enclosed and impact resistant dual-skin cabinet, strong 4-roll DuraTorque wire feed mechanism and Euro gun connection.



FEATURES



Excellent performance

The X3 MIG Welder's MIG/MAG process has been carefully tuned to give the arc outstanding stability, which makes it easy to manage and creates a minimum amount of spatter – also when using inexpensive CO2 shielding gas. When the need for post-weld grinding is reduced, welders can focus on productive welding.



Easy to move

The X3 Power Source weighs less than similar equipment and delivers powerful welding performance without any compromises on quality. Ergonomically positioned handles and optional wheel sets facilitate the system's easy transfer from one site to another. The less valuable production time is used to move hardware, the more productive your welding will be.



Fine-tune your welds with special functions

With the X3 MIG Welder, there's something for everybody. CRATER FILL reduces the voltage level at the end of the weld, making it nice and clean to start the next weld. BURN BACK prevents filler wire from sticking to the work piece, while HOT STOP makes tack welding fast and easy. To start a great weld, CREEP START slows down the wire feed speed to prevent any arc disturbances upon ignition and SOFT START stabilizes the arc to minimize



spatter. And then there's HARD IGNITION for a more vigorous start. Can it get any better?



ACCESSORIES



GX 403G

400 A, Gas-cooled, 3.5m or 5m, EURO connector



X3 Interconnection Cable

Gas-cooled interconnection cable. Available 50 mm² and 70 mm² thick and 1.8 m, 5 m, 10 m, 15 m, 20 m (only 70 mm²) and 30 m (only 70 mm²) long.



Earth Return Cable

Earth return cable, available 50 mm² and 70 mm² thick and 5 m long.



X3 Extension Cable

Gas-cooled extension cable. Available 50 mm² and 70 mm² thick and 10 m and 15 m long.



X3 Wheel Set

Wheel set with big rear wheels for the X3 Power Source.



X3 Four Wheel Set

Wheel set with big rear wheels and small turning front wheels for the X3 Power Source.



X3 Wire Feeder Mounting Plate

To mount the wire feeder on top of the power source.



P 20

The P 20 is a 4-wheel transport unit suitable for the X3 MIG Welder, Kempact Pulse 3000 and KempactCool.

Enables the movement of the welding system with the gas cylinder conveniently as a whole (X3 Wire Feeder Mounting Plate required for the X3 MIG Welder).



TECHNICAL SPECIFICATIONS

POWER SOURCES

X3 Power Source 400

Product code	X31004000
Connection voltage 3~ 50/60 Hz	380 – 440 V (-10...+10 %)
Fuse	25 A
Output 60% ED	400 A / 34 V
Output 100% ED	310 A / 29 V
Open circuit voltage	52 - 57 V
Welding current and voltage range, MIG	25 A/15 V - 400 A/38V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	629 x 230 x 414 mm
Degree of protection	IP 23S
Standards	IEC 60974-1 IEC 60974-10
EMC class	A

X3 Power Source 400 AU

Product code	X31004000AU
Connection voltage 3~ 50/60 Hz	380 – 440 V (-10...+10 %)
Fuse	25 A
Output 60% ED	400 A / 34 V
Output 100% ED	310 A / 29 V 310 A / 29 V
Open circuit voltage	52 - 57 V
Welding current and voltage range, MIG	25 A/15 V - 400 A/38V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	629 x 230 x 414 mm
Degree of protection	IP 23S
Standards	IEC 60974-1 IEC 60974-10
EMC class	A



X3 Power Source 500

Product code	X31005000
Connection voltage 3~ 50/60 Hz	380 – 440 V (–10...+10 %)
Fuse	32 A
Output 60% ED	500 A / 39.0 V
Output 100% ED	390 A / 33.5 V
Open circuit voltage	57 - 62 V
Welding current and voltage range, MIG	25 A/15 V - 500 A/43 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	629 x 230 x 414 mm
Degree of protection	IP 23S
Standards	IEC 60974-1 IEC 60974-10
EMC class	A

WIRE FEEDERS

X3 Wire Feeder 300

Product code	X31003000
Wire feed mechanism	4-roll
Gun connection	Euro
Filler wires, Fe	0.6 – 1.6 mm
Filler wires, MC/FC	0.8 – 2.0 mm
Wire feed speed	0 – 25 m/min
Operating temperature range	-20...+40 °C
External dimensions LxWxH	590 x 240 x 445 mm
Degree of protection	IP 23S
Standards	IEC 60974-5 IEC 60974-10
Wire spool weight, max.	20 kg
Wire spool diameter, max.	300 mm



ACCESSORIES

GX 403G

Product code	GX403G35 (3.5m), GX403G5 (5m)
Load capacity, Ar + CO ₂ (35%)	400 A
Changeable neck	No
Rotating neck	Yes
Pistol grip handle	Yes
Type of cooling	Gas
Remote control	No
Welding process	MIG/MAG
Contact tip	M10x1
Wire diameters (mm)	0.8–1.6
Type of connection	Euro
LED option	No

X3 Interconnection Cable

Product code	6260508 - X3 Interconnection Cable 50-1,8-G 6260518 - X3 Interconnection Cable 70-1,8-G 6260500 - X3 Interconnection Cable 50-5-G 6260501 - X3 Interconnection Cable 70-5-G 6260513 - X3 Interconnection Cable 50-10-G 6260514 - X3 Interconnection Cable 70-10-G 6260515 - X3 Interconnection Cable 50-15-G 6260516 - X3 Interconnection Cable 70-15-G 6260523 - X3 Interconnection Cable 70-20-G 6260633 - X3 Interconnection Cable 70-30-G
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Earth Return Cable

Product code	6184511 - Earth return cable 50mm ² 5m 6184711 - Earth return cable 70mm ² 5m
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X3 Extension Cable

Product code	6310710 - X3 Extension Cable 70-10-G 6310715 - X3 Extension Cable 70-15-G 6310510 - X3 Extension Cable 50-10-G 6310515 - X3 Extension Cable 50-15-G
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X3 Wheel Set

Product code	X37000001
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X3 Four Wheel Set

Product code	X37000002
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X3 Wire Feeder Mounting Plate

Product code	X37000003
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P 20

Product code	6185261
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Kemppi is the pioneering company within the welding industry. It is our role to develop solutions that make you win business. Headquartered in Lahti, Finland, Kemppi employs over 800 welding experts in 17 countries and has a revenue of more than 150 MEUR. Our offering includes welding solutions - intelligent equipment, welding management software and expert services - for both demanding industrial applications and ready-to-weld needs. Local expertise is available via our global partner network covering over 60 countries.

