

A3 MIG Rail System 2500

A COMPACT, BATTERY-DRIVEN MECHANIZATION SOLUTION
FOR MIG WELDING





A3 MIG Rail System 2500

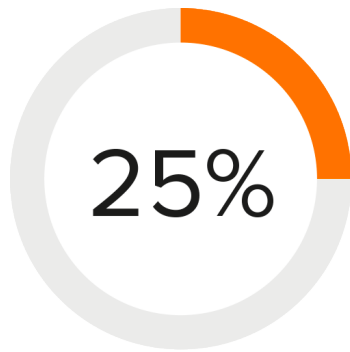


A COMPACT, BATTERY-DRIVEN MECHANIZATION SOLUTION FOR MIG WELDING

A3 MIG Rail System 2500 is a simple and compact battery-driven solution for mechanized MIG welding and thermal cutting for applications where weaving is not needed. In mechanized welding, instead of welding by hand, the welding carriage carries the gun, making the arc movement steady. The handy system is an easy and cost effective choice for weld lengths exceeding 2 m as well as multi-layer welds. It is suitable for welding thick plates in medium-to-heavy industries, e.g. in shipbuilding, offshore, and general fabrication. The system can also be used for plasma or oxy-fuel cutting. The smart WiseFusion process provides significant additional improvements in welding production efficiency.

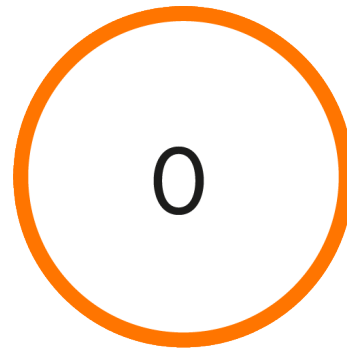


KEY BENEFITS



FASTER

Weld 25% faster with Kemppi WiseFusion process.



NO CABLE COSTS

No connection to another power source is needed as the model is battery operated.

BENEFITS

- Unique Kemppi application software significantly improves the production efficiency
- Save setup time using a battery operated model
- No cable costs
- Lightweight carriage is easy to move around and lift on the rail
- No connection to another power supply needed
- Battery capacity for 8-hour operation
- Battery is an industry standard version and commonly available
- Easy-to-use. Simple operation with speed adjustment and change of direction.
- Saves time in preparation and welding because the equipment is also suitable for thermal cutting.
- Operates on the same flexible aluminum rails as A5 MIG Rail System 2500



PRODUCT OPTIONS



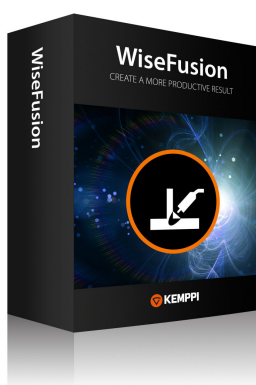
FastMig M 420 Power source

The FastMig M 420 is a top performance multi-purpose power source, suitable for many applications. This unit is made for those who are looking to optimize welding productivity and quality.



MXF 65 EL Wire feeder

EL wire feeder versions are suitable for synergic MS control panels. Flexibility and performance for all welding applications in today's medium and heavy industries. This unit is compatible with 300 mm spool and is covered in an aluminum casing.



WiseFusion

A welding function that ensures consistent weld quality in all positions by automatically regulating arc length. Creates and maintains an optimal short-circuit characteristic in pulsed MIG/MAG and spray-arc welding.

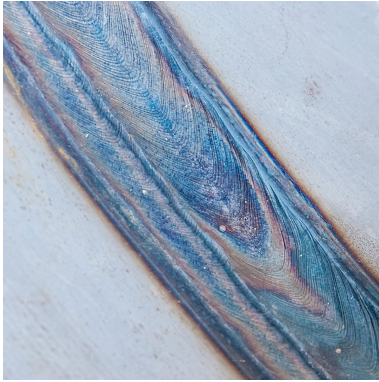


WisePenetration

A welding function for ensured penetration in synergic MIG/MAG welding. Delivers constant power to the weld pool regardless of changes in welding gun orientation or distance between the welding gun and work piece.



FEATURES



Weld 25% more per year

WiseFusion makes it possible to weld at a significantly higher speed, providing the same quality level and throat thickness as with a conventional spray and pulse arc. Synergic fusion is 20% faster than 1-MIG and pulsed fusion, and even 38% faster than conventional pulse welding.



No cost or fuss for cables

A3 MIG Rail System is a battery-operated model, it does not need to be connected to other welding equipment or an external power supply. You save the cable investment cost and, without extra cables, taking the equipment where you need it is quicker and the working environment safer.



ACCESSORIES



MMT/PMT gun range

Whether you're welding ships' hulls or pleasure boats, rail cars or racing cars, you can trust Kemppi MMT and PMT guns to deliver value to every weld. This range includes guns for both manual and mechanized welding.



FastCool 10

The FastCool 10 is a cooling unit designed for FastMig M welding equipment and is used for cooling the welding gun.



A3 MIG Rail Welding Carriage

Battery operated welding carriage driven by a robust electronic motor and equipped with welding gun holder. Battery has 8 hours of operating time and is commonly available, being an industry standard version. Lightweight carriage is easy to lift and move around.



Rail 2500

Flexible high quality aluminum rails with extra strong magnets. Flexible 2.5 m long rails can be used on different kind of surfaces from flat, curved to round up from 1500 OD onwards.



A5 MIG Rail magnet attachment 8 PCS



A5 MIG Rail quick extension bracket



A5 Rail vacuum attachment 4 PCS



FastMig MS 300 control panel

MS control panel, which includes easy-to-use synergic functionality and a rich selection of additional features for optimizing your welding work. These packages are suitable for professional use in more demanding industrial applications. This panel is for MXF 65 EL and MXF 67 EL wire feeders.



Battery



Battery charger



Machine cutting torch



TECHNICAL SPECIFICATIONS

POWER SOURCES

FastMig M 420 Power source

Product code	6132420
Connection voltage 3~ 50/60 Hz	400 V -15...+20%
Fuse (delayed)	35A
Minimum generator power	20kVA (60%) 18kVA (100%)
Welding range	U ₀ = 50 - 58 V
Output 60% ED	420 A
Output 100% ED	380 A
Rated power 60% ED	20 KVA
Rated power 100% ED	18 kVA
Max. welding voltage	45 V
Open circuit voltage MMA	U ₀ = 48 – 53 V, U _{av} = 50 V
Open circuit voltage MIG/MAG	U ₀ = 80–98V
Welding current and voltage range, Stick (MMA)	15 A/20 V – 420 A/44 V
Idle power	25 W
Efficiency at max. current	89 %
Power factor at max. current	0.87
Welding current and voltage range, MIG	20 A/12 V – 420 A/44 V
Operating temperature range	-20 ... +40 °C
External dimensions LxWxH	590 × 230 × 430 mm
Weight (no accessories)	35 kg
Degree of protection	IP23S
Standards	IEC 60974-1, IEC 60974-5, IEC 60974-10
Storage temperature range	-40 ... +60 °C



WIRE FEEDERS

MXF 65 EL Wire feeder

Product code	6152100EL
Output 60% ED	520 A
Output 100% ED	440 A
Wire feed mechanism	4-roll
Filler wires, Ss	0.6 – 1.6 mm
Filler wires, Al	1.0 – 2.4 mm
Filler wires, Fe	0.6 – 1.6 mm
Wire feed speed	0 – 25 m/min
Diameter of feed rolls	32 mm
Filler wires, Cored wire	0.8 – 2.0 mm
Wire spool weight, max.	20 kg
Wire spool diameter, max.	300 mm
External dimensions	620 × 210 × 445 mm
Weight	11.1 kg

SOFTWARE

WiseFusion

Product code	9991014 (FastMig M, FastMigX) X8500000 (X8 MIG Welder) A7500000 (A7 MIG Welder)
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WisePenetration

Product code	9991000 (FastMig M, FastMigX) A7500001 (A7 MIG Welder)
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ACCESSORIES

FastCool 10

Product code	6068100
Cooling liquid	20% – 40 % etanol/water
Operating voltage	400V -15%...+20%
Connection capacity	250 W (100 %)
Start pressure, max	0.4 MPa
Operating temperature range	-20 ... +40 °C
Degree of protection	IP23S
Tank volume	ca. 3 l
External dimensions	570 x 230 x 280 mm
EMC class	A
Cooling power	1 kW
Storage temperature range	-40 ... +60 °C
Weight	11 kg

A3 MIG Rail Welding Carriage

Product code	6190725
Power	18 VDC (battery)
Battery operation time	8 h
Carriage speed	5 - 100 cm/min
Rail length	2500 mm
External dimensions (Height from plate surface)	330 × 290 × 250 mm
Weight (Including battery)	6.1 kg
Battery type	BL1840

Rail 2500

Product code	6190710
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A5 MIG Rail magnet attachment 8 PCS

Product code	6190703
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A5 MIG Rail quick extension bracket

Product code	6190702
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A5 Rail vacuum attachment 4 PCS

Product code	6190719 - Standard (-40 - 110°C) 6190704 - Hi temp (-70 - 200°C)
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FastMig MS 300 control panel

Product code	6136400
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Battery

Product code	9755706
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Battery charger

Product code	9777582 (EU), 9777583 (UK), 9777584 (AU), 9777585 (DK), 9777586 (CN)
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Machine cutting torch

Product code	SP800679
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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.

