# FastMig M

TOP WELDING PERFORMANCE FOR INDUSTRIAL MIG/MAG WELDING







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# TOP WELDING PERFORMANCE FOR INDUSTRIAL MIG/ MAG WELDING

FastMig M series is a combination of modularity, ease of use and wide range of usage. These machines pack huge duty cycle performance into compact lean dimensions and weight, increasing productivity and work site mobility.

In industrial MIG/MAG welding, FastMig M is the well known high-technology alternative. Its control technology ensures excellent arc ignition and welding performance, so you spend more time welding and less time removing spatter.

There are two product package options from which you can select the optimal for your welding application: the synergic package for demanding advanced use, and the regular one for basic use. Whenever your application changes, you can update your FastMig M setup to go along with your production needs.



# **KEY BENEFITS**



30 % HIGHER WELDING SPEED

Thanks to WiseFusion application software



IMPROVED ADAPTABILITY

Due to wide selection of welding software



25 M EXTRA MIG GUN REACH

with the SuperSnake subfeeder

# **BENEFITS**

- · Modular design
- Two package options: Regular and Synergic
- Multi-voltage power supply version available
- WiseFusion™ option for easy and efficient welding out of position
- All Wise™ optimization products
- SuperSnake sub feeder for extended reach
- MagTrac F 61 welding carriage for improved productivity



# **PRODUCT OPTIONS**



### FastMig M 320 Power source

FastMig M 320 is a multi-purpose power source, suitable for many applications. This unit is made for reliable everyday welding.



### 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.



### FastMig M 520 Power source

The FastMig M 520 is a top performance multi-purpose power source, suitable for many applications.



### FastMig M 420 (400 V) MV Power source

The FastMig M 420 (400 V) MV is a top performance multi-voltage 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.



### MXF 67 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 a plastic casing.



### MXF 63 Wire feeder

Flexibility for all welding applications in today's medium and heavy industry. This unit is compatible with 200 mm spool and is covered in a plastic casing.



### MXF 67 Wire feeder

Flexibility and performance for all welding applications in today's medium and heavy industry. This unit is compatible with 300 mm spool and is covered in a plastic casing.



### MXF 65 Wire feeder

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.





### FastMig MR 200 control panel

MR control panel is the regular way of controlling the welding parameters. This package is suitable for basic welding applications in professional industrial welding and for FastMig M Regular setup with MXF 63 wire feeder.



### FastMig MR 300 control panel

MR control panel is the regular way of controlling the welding parameters. This package is suitable for basic welding applications in professional industrial welding and for FastMig M Regular setup with either MXF 65 and MXF 67 ?wire feeders.



### FastMig MS 200 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 63 EL wire feeder.



### 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.



### 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.



#### WiseRoot

Optimized short arc process for productive root pass welding with FastMig M. Excellent weld quality through automatic adjustment of the welding parameters. Gives higher speed than stick (MMA), TIG or MIG/MAG short arc welding. Also available for automated welding.



#### WiseThin

Short arc process for sheet metal welding. WiseThin produces easily controllable and spatterless arc thanks to the digital control of the welding parameters in any position, even in case of wider caps and gap variations.

Also available for automated welding.



### MatchLog

MatchLog includes Minilog and MatchChannel activation in WFX feeders (Minilog can be used only with MXF feeders). MatchChannel allows changing of the memory channel during welding and Minilog enables to change welding power in the same memory channel.





# MatchPIN

For locking parameters in stored memory channels. You can prevent unauthorized or undesirable modifications of your welding parameters by setting a PIN code.



# **FEATURES**



### Faster, better welding, with a focused arc

WiseFusion is a special process for synergic MIG/MAG and pulsed arc welding. It keeps the welding arc focused so that the arc density concentrates in a narrow area. It provides better penetration and faster travel speed.



### More reach, more productivity

SuperSnake extends the reach of standard Euro MIG welding guns, providing simple distance wire feeding for a variety of filler wires. The SuperSnake GT02S/GT02SW removes the need to carry large and heavy wire feed units, reducing personnel fatigue, improving safety, and increasing productivity.



### MR control panel for Regular FastMig M

Regular FastMig M packages contain an MR control panel, representing the regular way of controlling the welding parameters. This package is suitable for basic welding applications in professional industrial welding.



### MS control panel for Synergic FastMig M

Synergic FastMig M packages contain an MS control panel, which includes easy-to-use synergic functionality and a rich selection of additional features for optimising your welding work. These packages are suitable for professional use in more demanding industrial applications.



# **ACCESSORIES**



FastCool 10

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



Earth return cable 5 m, 50 mm<sup>2</sup>



Earth return cable 5 m, 70 mm<sup>2</sup>



Cable for Stick (MMA) welding 5 m, 50 mm<sup>2</sup>



Cable for Stick (MMA) welding 5 m, 70 mm<sup>2</sup>



Remote control extension cable 10 m



Interconnection cable 1.8 m

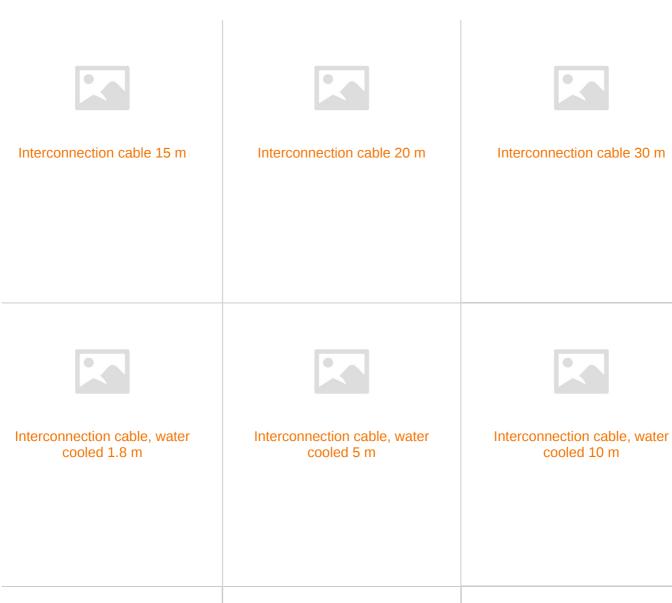


Interconnection cable 5 m



Interconnection cable 10 m







Interconnection cable, water cooled 15 m



Interconnection cable, water cooled 20 m



Interconnection cable, water cooled 30 m





### Remote control R10

Suitable for use with Kemppi MIG, TIG, and stick (MMA) welding equipment. Available in 5 m and 10 m.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.



### Remote control R20

Suitable for MIG welding with Kemppi FastMig M. Available in 5 m and 10 m.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.



### Remote control R30

Suitable for use with Kemppi FastMig X and FastMig M with MXF wire feeder. Available in 5 m and 10 m.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.



### GH 30 Gun holder

GH 30 Gun holder increases the usability around the workshop. The gun holder can be mounted on a welding machine, transport unit, or welding table.



### KV 401 Swing Boom Arm

KV 401 Swing boom arm is an ideal for controlled reach around the workshop.

This unit is suitable for MXF 65,67, MXP 37 PIPE, MXP 38, and ArcFeed.



### Gas Guard 200/300

For preventing welding in the absence of shielding gas supply.

Gas guard can be added to MXF 63, 65,67, MXP 37 PIPE, and MXP 38.



# MXF SuperSnake synchronisation kit



#### PM500

The PM500 is a 4-wheel transport unit suitable for FastMig M and the FastMig X series as well as for KempArc.



KV 200

The KV 200 mounting plate for two wire feeders.

This unit is suitable for MXF 63, 65, 67, MXP 37 PIPE, MXP 38, and ArcFeed.





### KFH 1000

KFH 1000 is a movable option for hanging cables. This solution helps to create more versatile work spaces around the workshop.

This unit is suitable for MXF 63, 65, 67, MXP 37 PIPE, MXP 38, WFX 200, 200 P, 200 AMC WFX 300, 300 P, 300 AMC and ArcFeed.



The MXF 65 hanging kit is meant for hanging the power source. This solution helps to create more versatile work spaces around the workshop. This unit is only suitable for MXF 65.



### MXF 63 hanging frame

The MXF 63 hanging frame is a metal frame for hanging up your power source. This solution helps to create more versatile work spaces around the workshop. This unit is only suitable for MXF 63.



### KWF 200/300 cabinet heater

The cabinet heater maintains a temperature level inside the wire feed cabinet for conditions where the ambient temperature cycles up and down.

This unit is suitable for MXF 63, 65, 67, MXP 37 PIPE, and MXP 38.



### MXF 63 Protection sliders

MXF 63 protection sliders add safety and stability to your power source. This unit is only suitable for the MXF 63.



### Remote control RMT10

Fingertip control compatible with Kemppi PMT welding gun range for MIG/MAG welding.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.



### MatchLog

MatchLog includes Minilog and MatchChannel activation in WFX feeders (Minilog can be used only with MXF feeders). MatchChannel allows changing of the memory channel during welding and Minilog enables to change welding power in the same memory channel.



### **MatchPIN**

For locking parameters in stored memory channels.

You can prevent unauthorized or undesirable modifications of your welding parameters by setting a PIN code.



### Boom WP 6000

Articulated boom "WP 6000" holds one wire feeder and creates a semicircular working area of 6 meters in radius. The boom folds in the middle and rotates 180 degrees, making it possible to reach the areas close to the wall, unlike with telescopic booms. The maximum load is 50 kg.

For suspension, a suitable Kemppi wire feeder hanger must be used: X8 Wire Feeder: X8702040000, WFX 300: 6185100, MFX 63: 6185285, MXF 65: W001694.



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# Flexlite GX

Flexlite GX product series contains welding guns to be used in MIG/MAG welding processes. All Flexlite GX welding guns enjoy the Flexlite features for user comfort, welding efficiency and extended consumable parts life.



# **TECHNICAL SPECIFICATIONS**

# POWER SOURCES

# FastMig M 320 Power source

Product code	6132320
Connection voltage 3~ 50/60 Hz	400 V -15+20%
Fuse (delayed)	25 A
Minimum generator power	15 kVA (100%)
Welding range	MMA - 15 A/20 V – 320 A/45 V MIG 20 A/12 V – 320 A/45 V
Output 100% ED	320 A
Rated power 100% ED	15 kVA
Max. welding voltage	45 V
Open circuit voltage MMA	U0 = 48 - 53  V Uav = 50  V
Open circuit voltage MIG/MAG	U0 = 50-58V
Welding current and voltage range, Stick (MMA)	15 A/20V – 320 A/45 V
Idle power	25 W
Efficiency at max. current	88%
Power factor at max. current	0.80
Welding current and voltage range, MIG	20 A/12 V – 320 A/45 V
Operating temperature range	-20 +40 °C
External dimensions LxWxH	590 × 230 × 430 mm
Weight (no accessories)	34 kg
Degree of protection	IP23S
Standards	IEC 60974-1, IEC 60974-5, IEC 60974-10
Storage temperature range	-40 +60 °C



# 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	U0 = 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	U0 = 48 – 53 V, Uav = 50 V
Open circuit voltage MIG/MAG	U0 = 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



# FastMig M 520 Power source

Product code	6132520
Connection voltage 3~ 50/60 Hz	400 V -15+20%
Fuse (delayed)	35A
Minimum generator power	27kVA (60%) 20kVA (100%)
Output 60% ED	520 A
Output 100% ED	430 A
Output (MMA)	520A/43V (100%)
Rated power 60% ED	27 kVA
Rated power 100% ED	20 kVA
Open circuit voltage MMA	U0 = 48 - 53  V Uav = 50  V
Open circuit voltage MIG/MAG	U0 = 80-98V
Welding current and voltage range, Stick (MMA)	15 A/20 V – 520 A/43 V
Idle power	25 W
Efficiency at max. current	89%
Power factor at max. current	0.90
Welding current and voltage range, MIG	20 A/12 V – 520 A/43 V
Operating temperature range	-20 +40 °C
External dimensions LxWxH	590 × 230 × 430 mm
Weight (no accessories)	36 kg
Degree of protection	IP23S
Standards	IEC 60974-1, IEC 60974-5, IEC 60974-10
Storage temperature range	-40 +60 °C

# FastMig M 420 (400 V) MV Power source

Product code	6132423
Connection voltage 3~ 50/60 Hz	220 V -10%440 V +10%
Fuse (delayed)	35A
Minimum generator power	22 kVA (60%) 19 kVA (100%)
Welding range	U0 = 53 - 58 V
Output	420 A (60%)
Open circuit voltage	U0 = 4853 V Uav = 50 V
Operating temperature range	-20+40 °C
External dimensions LxWxH	590 × 230 × 580 mm
Weight (no accessories)	49 kg
Degree of protection	IP23S
Standards	IEC 60974-1, IEC 60974-5, IEC 60974-10



# 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

# MXF 67 EL Wire feeder

Product code	6152200EL
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	625 × 243 × 476 mm
Weight	12.5 kg



# MXF 63 Wire feeder

Product code	6152300
Output	520 A (60%)
Wire feed mechanism	4 - roll
Wire feed speed adjustment	0 – 25 m/min
Gun connection	Euro
Filler wire sizes (Fe solid)	0.6 – 1.6 mm
Filler wire sizes (Fe cored)	0.8 – 1.6 mm
Filler wire sizes (Ss)	0.6 – 1.6 mm
Filler wire sizes (AI)	1.0 – 1.6 mm
Operating temperature range	-20 +40 °C
External dimensions LxWxH	510 × 200 × 310 mm
Degree of protection	IP23S
Standards	IEC 60974-5
Wire spool weight, max.	5 kg
Weight (empty)	9.4 kg
Wire spool diameter, max.	200 mm

### MXF 67 Wire feeder

Product code	6152200
Output	520 A (60%)
Wire feed mechanism	4 - roll
Wire feed speed adjustment	0 – 25 m/min
Gun connection	Euro
Filler wire sizes (Fe solid)	0.6 – 1.6 mm
Filler wire sizes (Fe cored)	0.8 – 2.0 mm
Filler wire sizes (Ss)	0.6 – 1.6 mm
Filler wire sizes (AI)	1.0 – 2.4 mm
Operating temperature range	-20 +40 °C
External dimensions LxWxH	625 × 243 × 476 mm
Degree of protection	IP23S
Standards	IEC 60974-5
Wire spool weight, max.	20 kg
Weight (empty)	12.5 kg
Wire spool diameter, max.	300 mm



### MXF 65 Wire feeder

Product code	6152100
Output	520 A (60%)
Wire feed mechanism	4 - roll
Wire feed speed adjustment	0 – 25 m/min
Gun connection	Euro
Filler wire sizes (Fe solid)	0.6 – 1.6 mm
Filler wire sizes (Fe cored)	0.8 – 2.0 mm
Filler wire sizes (Ss)	0.6 – 1.6 mm
Filler wire sizes (Al)	1.0 – 2.4 mm
Operating temperature range	-20 +40 °C
External dimensions LxWxH	620 × 210 × 445 mm
Degree of protection	IP23S
Standards	IEC 60974-5
Wire spool weight, max.	20 kg
Weight (empty)	11.1 kg
Wire spool diameter, max.	300 mm

# FastMig MS 300 control panel

Product code	6136400
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# SOFTWARE

# WiseFusion

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

### WisePenetration

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

### WiseRoot

# WiseThin

Product code	9991013 (FastMig M)	



# **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

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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.

