

FastMig M

Proven reliability from the top of welding technology



Energy efficient

- 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™ optimisation products
- MasterTig LT 250 and ArcFeed connection in power source with optional AS kit
- SuperSnake sub feeder for extended reach
- MagTrac F 61 welding carriage for improved productivity

Applications

- Offshore and shipyards
- Metal workshops
- Construction

Top welding performance for industrial MIG/MAG welding

Welding equipment optimised to your production

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.

Boost your welding performance with auxiliary options

Take a step onto a new level of welding productivity: Combine the welding power of your FastMig M with the speed and reliability of Kemppi's MagTrac F 61 welding carriage.

To take the welding productivity one step further, you can combine your FastMig M and MagTrac F 61 setup with the WiseFusion welding optimisation function. This is a welding combination that delivers quality welds with a very low heat input, resulting in significant reduction in straightening and other after work costs. It has been calculated that this solution can reduce your after work costs by up to 20%.

Furthermore, the FastMig M solution offers a wide selection of remote control devices to make the welder's work more efficient and productive. And if you need more reach, you can connect the SuperSnake sub feeder, which gives you up to 30 meters wider work range.

FastMig M is a strong and reliable workhorse no matter which package you choose: Regular or Synergic.

You can choose either regular or synergic way of controlling the welding parameter values on your machine. Both control modes are available for any power source and wire feeder combination.

You can choose your wire feeder and control panel combination according to your present welding needs, and if your application changes later on, you can always refresh your FastMig M system with new power levels, wire feeder options and welding software.

Choice of wire feeders

You have a choice of three wire feeder models to go with your Regular or Synergic FastMig M package.

FastMig MXF 63 is a small and light version for 200 mm wire spools, whereas MXF 65 and MXF 67 models fit 300 mm wire spools. FastMig MXF 67 has an extra strong dual-skin plastic casing.

Both regular and synergic control panel options are available for all wire feeder models.

You can choose from three different wire feeder options for FastMig M.: **MXF 65, MXF 67** and **MXF 63**, from left to right.



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.



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.

FastMig M	Regular	Synergic
Power source	FastMig M 320	FastMig M 320
	FastMig M 420	FastMig M 420
	FastMig M 520	FastMig M 520
	FastMig M 420MV	FastMig M 420MV
Wire feeder	MXF 65	MXF 65 EL
	MXF 67	MXF 67 EL
	MXF 63	MXF 63 EL
Cooling unit	FastCool 10	FastCool 10
Panels	FastMig MR 200	FastMig MS 200
	FastMig MR 300	FastMig MS 300
Optional Software		WiseFusion
		WisePenetration
		WiseRoot
		WiseThin
		MatchLog
		MatchPIN

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Technical specifications

		FastMig M 320	FastMig M 420	FastMig M 520
Connection voltage	3~, 50/60 Hz	400 V -15 %...+20 %	400 V -15 %...+20 %	400 V -15 %...+20 %
Rated power	60 % ED	-	20 kVA	27 kVA
	100 % ED	15 kVA	18 kVA	20 kVA
Output 40 °C	60 % ED	-	420 A	520 A
	100 % ED	320 A	380 A	430 A
Welding current and voltage range	MMA	15 A/20 V – 320 A/45 V	15 A/20 V – 420 A/44 V	15 A/20 V – 520 A/43 V
	MIG	20 A/12 V – 320 A/45 V	20 A/12 V – 420 A/44 V	20 A/12 V – 520 A/43 V
Max. welding voltage		45 V	45 V	45 V
Open circuit voltage MMA		U ₀ = 48 – 53 V U _{av} = 50 V	U ₀ = 48 – 53 V U _{av} = 50 V	U ₀ = 48 – 53 V U _{av} = 50 V
Open circuit voltage MIG/MAG		U ₀ = 50 – 58 V	U ₀ = 50 – 58 V	U ₀ = 50 – 58 V
Idle power		25 W	25 W	25 W
Efficiency at max. current		88 %	89 %	89 %
Power factor at max. current		0.80	0.87	0.90
Operating temperature range		-20 ... +40 °C	-20 ... +40 °C	-20 ... +40 °C
Storage temperature range		-40 ... +60 °C	-40 ... +60 °C	-40 ... +60 °C
Degree of protection		IP23S	IP23S	IP23S
EMC class		A	A	A
External dimensions		590 x 230 x 430 mm	590 x 230 x 430 mm	590 x 230 x 430mm
Weight		34 kg	35 kg	36 kg

		FastMig M 420MV – 400 V range	FastMig M 420MV – 230 V range
Connection voltage	3~, 50/60 Hz	380 V -10% ... 440 V +10%	220 V -10 % ... 230 V +10 %
Rated power	60 % ED	22kVa	21 kVa
	100 % ED	19 kVa	18 kVA
Output 40 °C	60 % ED	420 A	420 A
	100 % ED	380 A	380 A
Welding current and voltage range	MMA	15 A/20 V ... 420 A/44 V	15 A/20 V ... 420 A/48 V
	MIG	20 A/12 V ... 420 A/44 V	20 A/12 V ... 420 A/48 V
Max. welding voltage		44 V	48 V
Open circuit voltage MMA		U ₀ = 48 ... 53 V U _{av} = 50 V	U ₀ = 48 ... 53 V U _{av} = 50 V
Open circuit voltage MIG/MAG		U ₀ = 53 ... 58 V	U ₀ = 60 ... 65 V
Idle power		25 W	25 W
Efficiency at max. current		87 %	87 %
Power factor at max. current		0.82	0.85
Operating temperature range		-20 ... +40 °C	-20 ... +40 °C
Storage temperature range		-40 ... +60 °C	-40 ... +60 °C
Degree of protection		IP23S	IP23S
EMC class		A	A
External dimensions		590 x 230 x 580 mm	590 x 230 x 580 mm
Weight		49 kg	49 kg

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Technical specifications – Ordering information

		FastMig MXF 63	FastMig MXF 65	FastMig MXF 67
Output 40 °C	60 % ED	520 A	520 A	520 A
	100 % ED	440 A	440 A	440 A
Wire feed speed		0 – 25 m/min	0 – 25 m/min	0 – 25 m/min
Wire feed mechanism		4-roll	4-roll	4-roll
Diameter of feed rolls		32 mm	32 mm	32 mm
Filler wires	∅ Fe, Ss	0.6 – 1.6 mm	0.6 – 1.6 mm	0.6 – 1.6 mm
	∅ Cored wire	0.8 – 1.6 mm	0.8 – 2.0 mm	0.8 – 2.0 mm
	∅ Al	1.0 – 1.6 mm	1.0 – 2.4 mm	1.0 – 2.4 mm
Wire spool	max. weight / max. ∅	5 kg / 200 mm	20 kg / 300 mm	20 kg / 300 mm
External dimensions	L x W x H	510 x 200 x 310 mm	620 x 210 x 445 mm	625 x 243 x 476 mm
Weight		9.4 kg	11.1 kg	12.5 kg

Power sources				
FastMig M 320		6132320	Interconnection cable	1.8 m 6260401
FastMig M 420		6132420	Interconnection cable	5 m 6260405
FastMig M 520		6132520	Interconnection cable	10 m 6260326
FastMig M 420MV		6132423	Interconnection cable	15 m 6260325
			Interconnection cable	20 m 6260327
			Interconnection cable	30 m 6260330
Wire feeders			Interconnection cable, water cooled	1.8 m 6260410
MXF 65 EL	To be used with MS panels	6152100EL	Interconnection cable, water cooled	5 m 6260407
MXF 67 EL	To be used with MS panels	6152200EL	Interconnection cable, water cooled	10 m 6260334
MXF 63 EL	To be used with MS panels	6152300EL	Interconnection cable, water cooled	15 m 6260335
MXF 65	To be used with MR panels	6152100	Interconnection cable, water cooled	20 m 6260337
MXF 67	To be used with MR panels	6152200	Interconnection cable, water cooled	30 m 6260340
MXF 63	To be used with MR panels	6152300	WiseFusion welding function	9991014
Panels for wire feeders			WisePenetration welding function	9991000
FastMig MR 200	Regular panel	6136100	WiseRoot welding process	6265011
FastMig MR 300	Regular panel	6136200	WiseThin welding process	9991013
FastMig MS 200	Synergic panel	6136300	WiseSynergicMig license for upgrading Regular package to Synergic (for FastMig M)	9990420
FastMig MS 300	Synergic panel	6136400	MatchLog	9991017
Accessories			MatchPIN	6265026
Earth return cable	5 m, 50 mm ²	6184511	Transport unit P501	6185269
Earth return cable	5 m, 70 mm ²	6184711	Transport unit PM 500	6185291
Cable for MMA welding	5 m, 50 mm ²	6184501	Transport unit PM 502	6185293
Cable for MMA welding	5 m, 70 mm ²	6184701	Transport unit T10 *	6185231
Remote control unit R10	5m	6185409	Transport unit T120 *	6185252
Remote control unit R10	10m	618540901	KWF 200 hanging frame	6185285
Remote control unit R20	5m	6185419	KWF 200 protection sliders	6185286
R30 DataRemote	5m	6185420	KV 200 mouting plate	6185249
R30 DataRemote	10m	618542001	MXF 63 hanging frame (incl. KPS mouting set)	6185285
Remote control unit RMT 10		6185475	MXF 65 hanging kit	W001694
Remote control cable	10m	6185481	MXF 63 protection sliders (incl. KPS mouting set)	6185286
AS KIT including panel		6264263		
Cooling unit FastCool 10		6068100		
Gun holder GH 30		6256030		
KV 401 Swing boom arm (PM 500)		6185248		
GG200/300 gas guard		6237406		
MXFSuperSnake synchronisation kit		W004030		