

MagTrac F 61

MAGNETIC CARRIAGE UNIT FOR LIGHT MIG/MAG WELDING
MECHANIZATION





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Light mechanization is the most efficient way of improving welding productivity at shipyards and metal workshops. **MagTrac F 61** offers easy start-up in mechanized welding and requires no special expertise, as it is operated similar to any ordinary welding machine. The carriage-integrated LCD control panel enables full process control. While the carriage performs the heavy work, the welder can concentrate on monitoring the process and quality. MagTrac F 61 is compatible with Kemppi's Wise™ welding processes, which allow you to further increase your welding productivity and quality. The carriage can easily be moved from one location to another. With MagTrac F 61 you don't need auxiliary control cables or transformers, because everything is fully integrated in one cable.

MagTrac F 61 is sold in packages that contain the carriage unit, power source, wire feeder, welding gun for mechanized welding, and the necessary cables. You can optionally select a package that includes a SuperSnake subfeeder to get up to 25 meters of extra reach.



KEY BENEFITS

3x

HIGHER ARC ON TIME

For welding equipment
compared to manual welding

25 m

FURTHER REACH

Via connection with SuperSnake
subfeeder

BENEFITS

- Increased welding productivity and quality
- Improved safety and ergonomics
- Connects to Kemppi FastMig M & X welding equipment
- Power supply and all necessary cables fully integrated in one cable for easy setup - no need for extra cables or transformers
- Only the welding gun needed between the carriage and wire feeder
- Compatible with SuperSnake subfeeder for extra 25 m reach
- Compatible with Wise welding processes for increased productivity and quality
- LCD control panel with a 180° reversible display
- Includes Kemppi's unique gun quick-fixing mechanism
- Extensive selection of functions such as Cycle Weld, Wire Inch and Gas Test
- Welding value and memory channel selection at the carriage control panel



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.



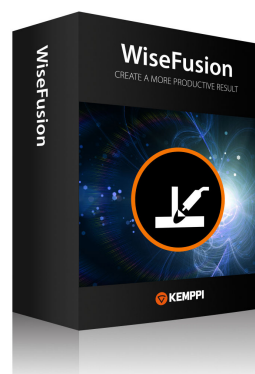
FastMig X 350 Power source

Provides 350 A with 80% duty cycle. Suitable for generator use.



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.



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.



FEATURES



Improved safety and ergonomics

Welders are known to work in positions that are sometimes quite challenging and non-ergonomic. As a mechanization solution, MagTrac F 61 is able to make the welding work lighter for the welder. However, the carriage should always be operated by a skilled welder for the best results. In addition to improved ergonomics and decreased exposure to radiation and welding fumes, MagTrac F 61's numerous benefits include increased productivity and weld quality consistency.



ACCESSORIES



MagTrac F 61 Welding carriage

The torch carrier unit for light MIG/MAG welding mechanization. Strong magnets keep the carriage on the right track even in demanding jobs.



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.



MMT MN 32C

MMT MN 32C is a 5 m gas-cooled multi-neck, 320A welding gun for mechanized welding.



MT51MWC

MT51MWC is a 500A water cooled welding gun for mechanized welding. Two length options 4,5 m (6255162) or 6,0 m (6255163).



FastCool 10

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



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

FastMig X 350 Power source

Product code	6103350
Connection voltage 3~ 50/60 Hz	400 V (-15...+20%)
Fuse (delayed)	35A
Minimum generator power	35 kVA
Output 80% ED	350 A
Output 100% ED	330 A
Open circuit voltage MMA	U ₀ = 70-98 V U _{av} = 50 V
Open circuit voltage MIG/MAG	U ₀ = 80 - 98 V
Operating temperature range	-20 ... +40 °C
External dimensions LxWxH	590 × 230 × 430 mm
Degree of protection	IP23S
Standards	IEC 60974-1, IEC 60974-5, IEC 60974-10



WIRE FEEDERS

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

SOFTWARE

WiseFusion

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

MagTrac F 61 Welding carriage

Product code	6190610
Input power	50 VDC / 1 A
Travel speed	150...1800 mm/min
Torch angle adjustment	±30°
Max. Surface temperature	150°C
Towing power	16 kg
Driving method	Rail-less drive with permanent magnetic suction
Wheels	4 rubber wheels
Tracing method	Guide rollers
Guide roller height range	10...38 mm, 3 positons
Non-welding distance, start	127 mm
Non-welding distance, end	127 mm
Auto-stop function	Limit switch on both sides
Torch model	Kemppi MMT 42C, MT51WC, MMT MN 32C
Torch distance adjustment range (up/down/fw/bw)	45 mm
External dimensions LxWxH	259 × 259 × 285 mm
Weight	6.9 kg

MMT MN 32C

Product code	6250405
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MT51MWC

Product code	4,5 m - 6255162
	6,0 m - 6255163

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.

