

# X5 FastMig

Extraordinary arc welding productivity





KEMPI

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### **FASTER WELDING, BETTER QUALITY**

Overcome the challenges of steel welding and save time and money in after-treatment. Stable arc control and precise ignition produce quality welds with less spatter, faster than before.



### **EFFORTLESS OPERATION**

Automatic welding parameter adjustment with optimal settings is fast and easy. The graphical 5.7" TFT display wins over both experienced welding professionals and new talents.



### **FLEXIBLE EQUIPMENT SETUP**

X5 FastMig adapts seamlessly to different welding applications and work environments. The wide range of accessories improves welding quality and ergonomics and streamlines production processes.

## Extraordinary arc welding productivity

Experience next-generation steel welding with **X5 FastMig**, an industrial multi-process welding system developed by Kemppi in collaboration with professional welders. Available in 400A and 500A models, the X5 FastMig is a versatile arc welding powerhouse that is built with energy-efficient inverter technology. Reliable, non-short-circuit ignition (Touch Sense Ignition) paired with **Wise special processes** minimize spatter and create high-quality welds you can count on.



### **FLEXIBILITY AND EFFICIENCY**

The clear, graphical panel is fast to adopt and easy to operate. Well-balanced **Flexlite GX** welding guns with excellent cooling enhance the welding experience even further. The modular setup and wide range of accessories bring flexibility and efficiency to welding production processes.



### **BUILT TO LAST**

Made in Finland, the X5 FastMig is built to last. Robust, injection-molded plastic casing protects the equipment from outside blows and challenging work conditions. Top-loading wire feeder design ensures ergonomics and safety when changing heavy filler wire spools.

# Unique user experience

Ease of use is at the core of X5 FastMig. The panel options consider the various needs and preferences of welders, and the operating basics are fast to adopt within just 10 minutes. The wire feeder's sturdy rotate-and-push buttons can be operated effortlessly even with thick welding gloves on.

Excellent usability results in an increase in valuable arc-on time, especially in companies that employ outsourced workforce and where the welding fleet is shared.

## Automated accuracy

Graphical 5.7" TFT screen panel is impact-resistant and displays all the needed information clearly without abbreviations. Welding parameters are set automatically by only adjusting wire feed speed. Memory channels are available to customize and save personal settings.

In addition to automatic parameter adjustment, a manual panel with traditional two-knob operation is available with limited welding processes and functions.



### X5 FASTMIG MANUAL

### X5 FASTMIG SYNERGIC

<b>Wire feeder</b>	X5 Wire Feeder 200 Manual X5 Wire Feeder 300 Manual	X5 Wire Feeder 300 Auto X5 Wire Feeder 300 Auto+
<b>Power source</b>	X5 Power Source 400 X5 Power Source 500	X5 Power Source 400 X5 Power Source 400 WP* X5 Power Source 500 X5 Power Source 500 WP*
<b>Welding processes</b>	MIG MMA Gouging	1-MIG TIG MIG MMA Gouging Wise processes**

\*Includes WiseSteel special process and X5 Work Pack 1-MIG with 17 welding programs.

\*\*Optional special processes include WiseSteel, WisePenetration+, and WiseFusion.

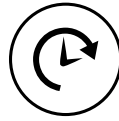


# Versatile powerhouse



## OPTIMIZED ARC CONTROL

The X5 FastMig's precise ignition and stable arc control produce high-quality welds. The latest ignition technology, **Touch Sense Ignition**, is featured as standard in all available models. It minimizes spatter and reduces the need for after-treatment. Arc control can be further optimized with optional welding programs and **Wise** special processes.



## FAST TO ADOPT

The graphical 5.7" TFT display wins over both experienced welding professionals and new talents with automatic parameter adjustment. Operating basics are easy to adopt within 10 minutes. A manual, two-knob panel is available with limited welding processes and functions.



## EXCELLENT WELDING ERGONOMICS

**Flexlite GX** welding guns feature flexible cable sets and ball-jointed cable protection which reduce wrist loading. Their innovative neck structure adds to welding comfort with more efficient cooling, which also extends the lifetime of consumables. On-torch GXR10 remote control allows parameter adjustment at the weld joint.



## EASY CHANGING OF FILLER WIRE SPOOLS

The ergonomically designed, top-loading wire feeder saves space and improves occupational safety in changing wire spools. It can also be hung up and adjusted to multiple different angles for easy accessibility, even in a dual setup. The handle's internal structures are enforced to sustain temporary hanging in crane transfers.



## BUILT TO LAST

The welding system is protected with robust, injection-molded plastic casing that will absorb the knocks of welding life and guarantees uninterrupted welding. The wire feeder panel's graphical display is impact-resistant and will withstand challenging conditions.



## MODULAR FLEXIBILITY

The X5 FastMig's wide range of accessories includes different kinds of transport units, remote controls, and interconnection cables of various lengths. The 4-wheeled cart features a pivoting cylinder plate that allows safe cylinder loading at floor level without extra lifting.



## INSIGHT CREATES VALUE

The X5 FastMig can be easily connected to the **WeldEye** cloud service, which offers automated processes for quality control, production analysis, and welding project management. The software also provides 100% traceability for each weld produced.



## ENERGY-EFFICIENT AUTOCOOL

Dynamic gas and water cooling ensures optimal temperature control and power efficiency. Depending on the welding power level and duration, the power source's cooling fans moderate air flow and the cooler motor's run times between 15 seconds and 4 minutes, reducing electrical power consumption and localized noise levels.

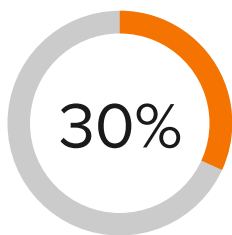




## Excellent arc characteristics for different welding applications

X5 FastMig is a versatile industrial welding system that is suitable for MIG/MAG, DC TIG, and MMA welding, and gouging. Featured as standard, **Touch Sense Ignition** ensures fast and precise ignition without short-circuiting and minimizes spatter. The ignition is further optimized with welding program-specific additional parameters. Adjustments are implemented quickly in real time, as the arc control recognizes the actual wire feed speed more accurately.

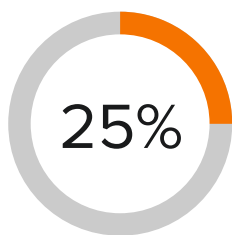
Challenging welding applications can be easily covered with **Wise special processes** that have been developed with over 70 years of experience in arc welding.



**SAVINGS IN GRINDING COSTS**

### Less spatter in steel welding

**WiseSteel** tackles the challenges of globular arc range by alternating between short arc and spray transfer. In short-circuit transfer, it improves the arc stability adaptively, providing better out-of-position steel welding capabilities. In spray transfer mode, micropulsing of current and voltage increases travel speed significantly.

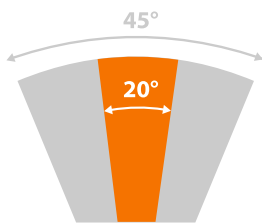


**FASTER WELDING**

### Faster welding of narrow and deep grooves

**WiseFusion** produces a very narrow and energy-dense arc that allows welding at a significantly higher speed without the risk of undercut. WiseFusion is up to 25% faster than conventional synergic 1-MIG and pulsed MIG, and it also facilitates weld pool control in position welding. Adaptive arc length regulation eliminates the need for constant parameter adjustment.

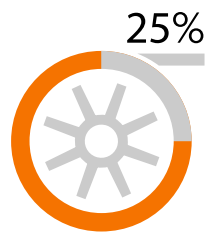




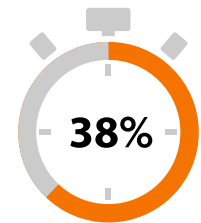
**20° GROOVE ANGLE  
INSTEAD OF 45°– 60°**



**5 WELD PASSES NEEDED  
INSTEAD OF 7**



**25% SAVINGS IN  
FILLER MATERIAL**



**38% SAVINGS IN  
ARC-ON TIME**

## Intelligent narrow gap welding

Reducing the groove angle can add significantly to the efficiency and productivity of welding of heavy metal structures. Kemppi's solution, **Reduced Gap Technology (RGT)**, allows reliable and efficient narrow gap welding with no need for special equipment or accessories for material thicknesses of up to 30 mm.

**WisePenetration+** is needed to enable the use of RGT with the X5 FastMig. The function ensures weld penetration regardless of variation in stick-out length and keeps the welding current stabilized in all situations by actively adjusting the wire feed.



# Flexible setup

X5 FastMig adapts flexibly to different welding applications and work environments. Take our X5 FastMig Selector for a spin and build the equipment setup that best suits your needs. The wide range of accessories has been developed to improve welding ergonomics and streamline production processes, allowing you to make the most out of your investment.

› [kemp.cc/x5/selector](https://kemp.cc/x5/selector)

Wire feeder placement

- Ground ⓘ
- Hung up ⓘ
- On the power source ⓘ

Interconnection cable length

20m

Welding gun cable length

5m

Maximum distance from the power source to the weld: 25m

Working area ⓘ

Maximum working area is 17m x 17m

360°  
RESET

NEXT

## ACCESSORIES

- X5 Cooler
- X5 Rotating Plate
- Double Wire Feeder Rotating Plate
- Wire Feeder Cabinet Heater
- Wire Feeder Hanger for Boom
- Double Wire Feeder Hanger for Boom
- X5 Wire Feeder Counterbalance Arm
- X5 Accessory Tray
- X5 Wire Feeder 200 Protection Frame
- Wire Drum Kit 5m / 10m / 20m / 27m
- GH 20 Gun Holder
- Power Source Air Filter
- Mains Cable Plug
- Digital Connectivity Module (DCM) for WeldEye integration

## TRANSPORT UNITS

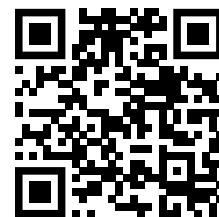
- X5 Gas Cylinder Cart
- X5 Trolley Cart
- X5 Wire Feeder Trolley

## REMOTE CONTROLS

- GXR10 - On-torch remote control for Flexlite GX welding guns
- HR43 - Wired hand remote control

## INTERCONNECTION CABLES

- X5 Interconnection Cable:
  - 70-g - 2m / 5m / 10m / 15m / 20m
  - 70-w - 2m / 5m / 10m / 15m / 20m
  - 95-w - 2m
- Double Feeder Y-Cable



See ordering information:

› [kemp.cc/x5/product-codes](https://kemp.cc/x5/product-codes)

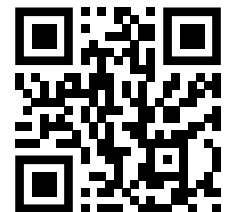
# Technical specifications

X5 POWER SOURCE		400	500
Mains connection voltage 3~ 50/60 Hz		380...460 V ±10 %	380...460 V ±10 %
Output at +40 °C	60 % ED 100 % ED	400 A 350 A	500 A 430 A
Welding current and voltage range	MIG MMA TIG	15 A/12 V ... 400 A/42 V 15 A/10 V ... 400 A/42 V 15 A/1 V ... 400 A/42 V	15 A/10 V ... 500 A/47 V 15 A/10 V ... 500 A/47 V 15 A/1 V ... 500 A/47 V
Operating temperature range		-20...+40 °C	-20...+40 °C
Storage temperature range		-40...+60 °C	-40...+60 °C
EMC class		A	A
Degree of protection		IP23S	IP23S
External dimensions L x W x H		750 x 263 x 456 mm	750 x 263 x 456 mm
Weight without accessories		39.0 kg	39.5 kg

X5 WIRE FEEDER	200	300	X5 COOLER	
Gun connection	Euro	Euro	Cooling power at 1 l/min	1.1 kW
Wire feed mechanism	4-roll, single-motor	4-roll, single-motor	Recommended coolant	MGP 4456 (Kemppi mixture)
Diameter of feed rolls	32 mm	32 mm	Tank volume	4 l
Filler wires	Fe 0.8 ... 1.6 mm Ss 0.8 ... 1.6 mm Mc/Fc 0.8 ... 2.0 mm Al 0.8 ... 2.4 mm	Fe 0.8 ... 2.0 mm Ss 0.8 ... 2.0 mm Mc/Fc 0.8 ... 2.4 mm Al 0.8 ... 2.4 mm	Operating temperature range (with recommended coolant)	-10...+40 °C
Wire feed speed	0.5 ... 25 m/min	0.5 ... 25 m/min	Storage temperature range	-40...+60 °C
Wire spool weight (max)	5 kg	20 kg	EMC class	A
Wire spool diameter (max)	200 mm	300 mm	Degree of protection (when mounted)	IP23S
Shielding gas pressure (max)	0.5 MPa	0.5 MPa	Weight without accessories	14.3 kg
Operating temperature range	-20...+40 °C	-20...+40 °C		
Storage temperature range	-40...+60 °C	-40...+60 °C		
EMC class	A	A		
Degree of protection	IP23S	IP23S		
External dimensions LxWxH	565 x 218 x 339 mm	650 x 230 x 410 mm		
Weight without accessories	9.7 kg	10.9 kg		

See more technical specifications:

[kemp.cc/x5/manuals](https://kemp.cc/x5/manuals)



## Kemppi Connect

If you purchase Wise special processes or welding programs from Kemppi, you can install them with a mobile application, **Kemppi Connect**.

Kemppi Connect is available free of charge from Google Play. Login requires an active My Kemppi ID.

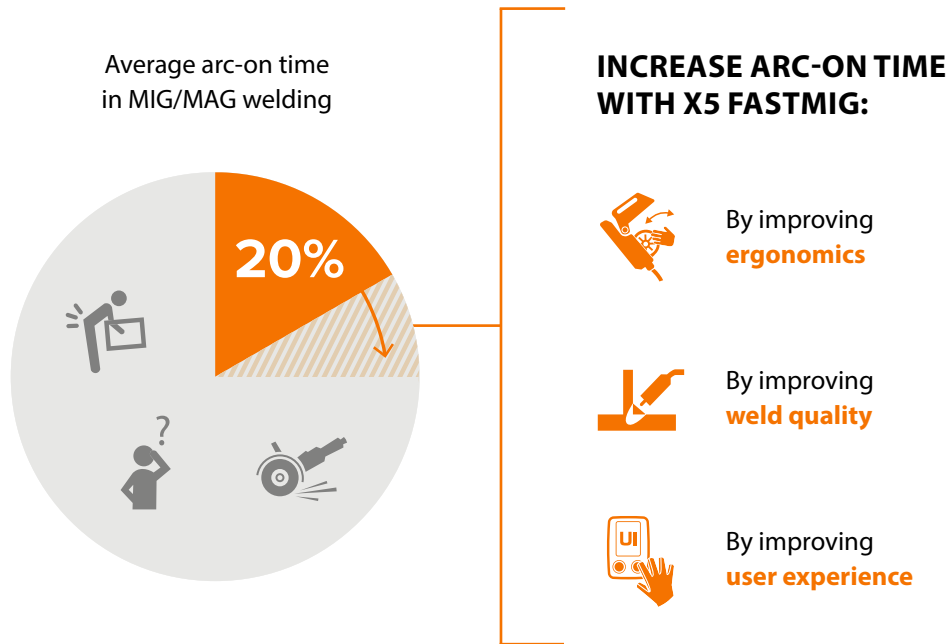


### QR CODE

X5 FastMig is equipped with a unique and scannable QR code. It enables an easy access to all the relevant information such as product number, serial number, technical specifications, ordering codes, consumables, user manuals, websites, and local dealers or workshops' contact information. All the information can be found with a single mobile scan.



# Extraordinary arc welding productivity



## **Kemppi is the design leader of the arc welding industry.**

We are committed to boosting the quality and productivity of welding by continuous development of the welding arc.

Kemppi supplies advanced products, digital solutions and services for professionals from industrial welding companies to single contractors. The usability and reliability of our products is our guiding principle. We operate with a highly skilled partner network covering over 70 countries to make its expertise locally available.

Headquartered in Lahti, Finland, Kemppi employs close to 800 professionals in 17 countries and has a revenue of 140 MEUR.

[www.kemppi.com](http://www.kemppi.com)

