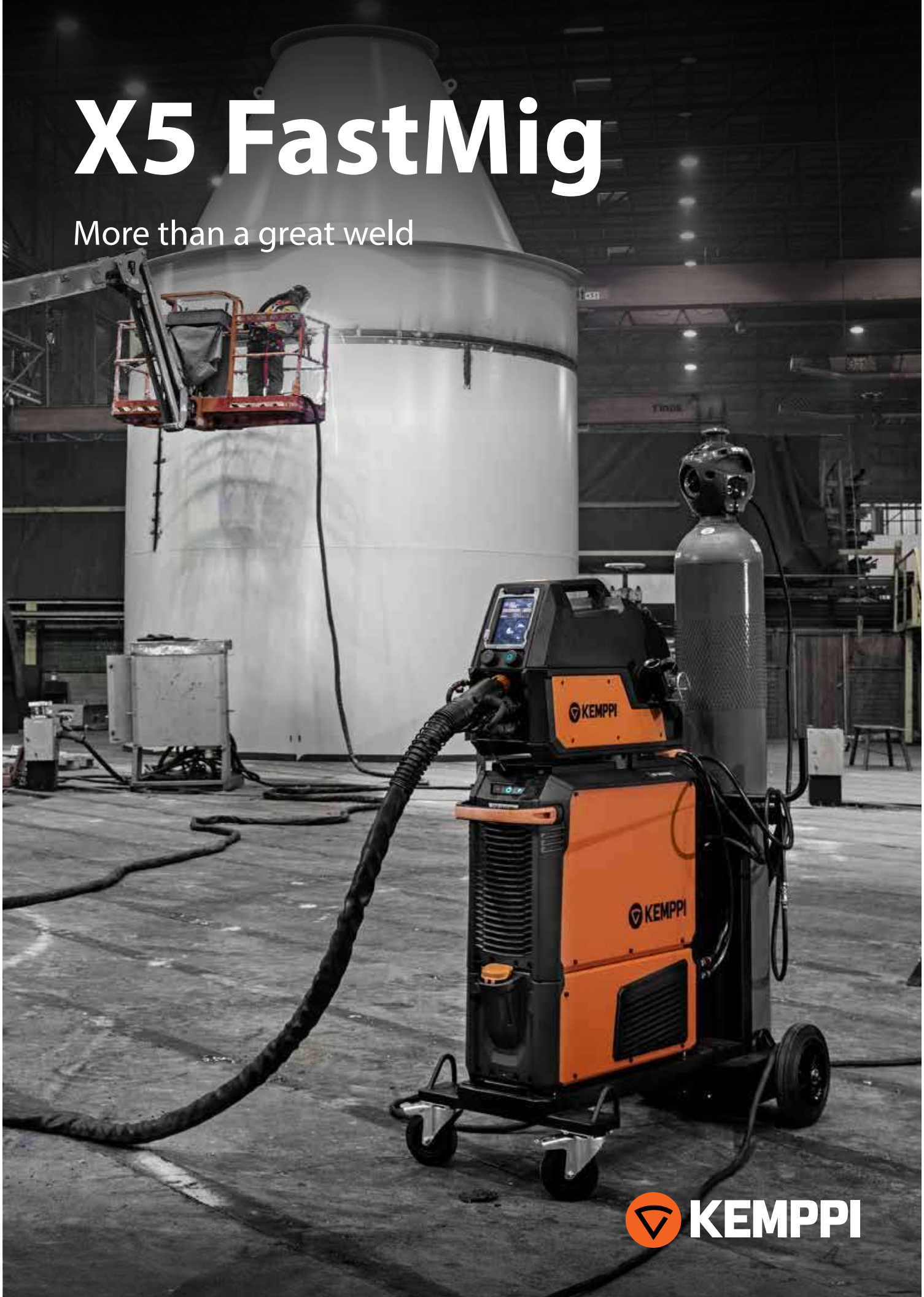
X5 FastMig

More than a great weld

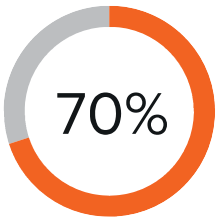


KEMPPI


KEMPPI

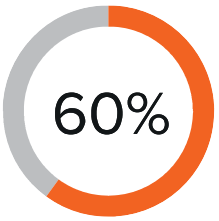
360° MODULAR SYSTEM

Multi-process industrial MIG/MAG welding system including MMA, gouging and TIG process, application accessories and integrated digital connectivity.



ELEVATE PRODUCTIVITY

MAX and Wise arc performance processes boost productivity, increase welding speed, improve weld pool control and lower heat input.



SET FASTER

Weld Assist is the fast set MIG/MAG guidance tool. Simply select your joint type, welding position and material thickness, and you're ready to weld.

More than a great weld

Designed and manufactured in Finland, X5 FastMig is a modular multi-process industrial welding system, focused primarily on high performance MIG/MAG welding.

Engineered for ease of use, adaptability and exceptional welding quality, process and equipment options include Manual, Auto and Auto Pulse MIG/MAG welding packages, alternative wire feed units, MMA, gouging and TIG processes, extended reach feeding systems, arc performance software tools and a range of supporting accessories.

Integrated digital wireless connectivity opens up a wealth of welding insight through X5 FastMig APC models, including welding management software and digital WPS (dWPS) functionality, thus delivering the benefits of digital transformation to the very heart of the welding workplace.

Build your system

X5 FastMig is more than just a great weld, it is a 360-degree modular welding solution. Whether your welding challenge is in the workshop or on-site, X5 FastMig performs to meet your specific needs.

Choose from 400A or 500A power sources, Manual, Auto and Auto Pulse welding performance, optional welding software and dedicated arc performance processes for clean, high-quality weld seams, increased weld pool control and excellent productivity.

Visualize welding activity through digital dashboards that support welding quality, personnel qualification and documentation responsibilities.

360°

WELDING MANAGEMENT

WELDEYE CLOUD SERVICE

DIGITAL WPS

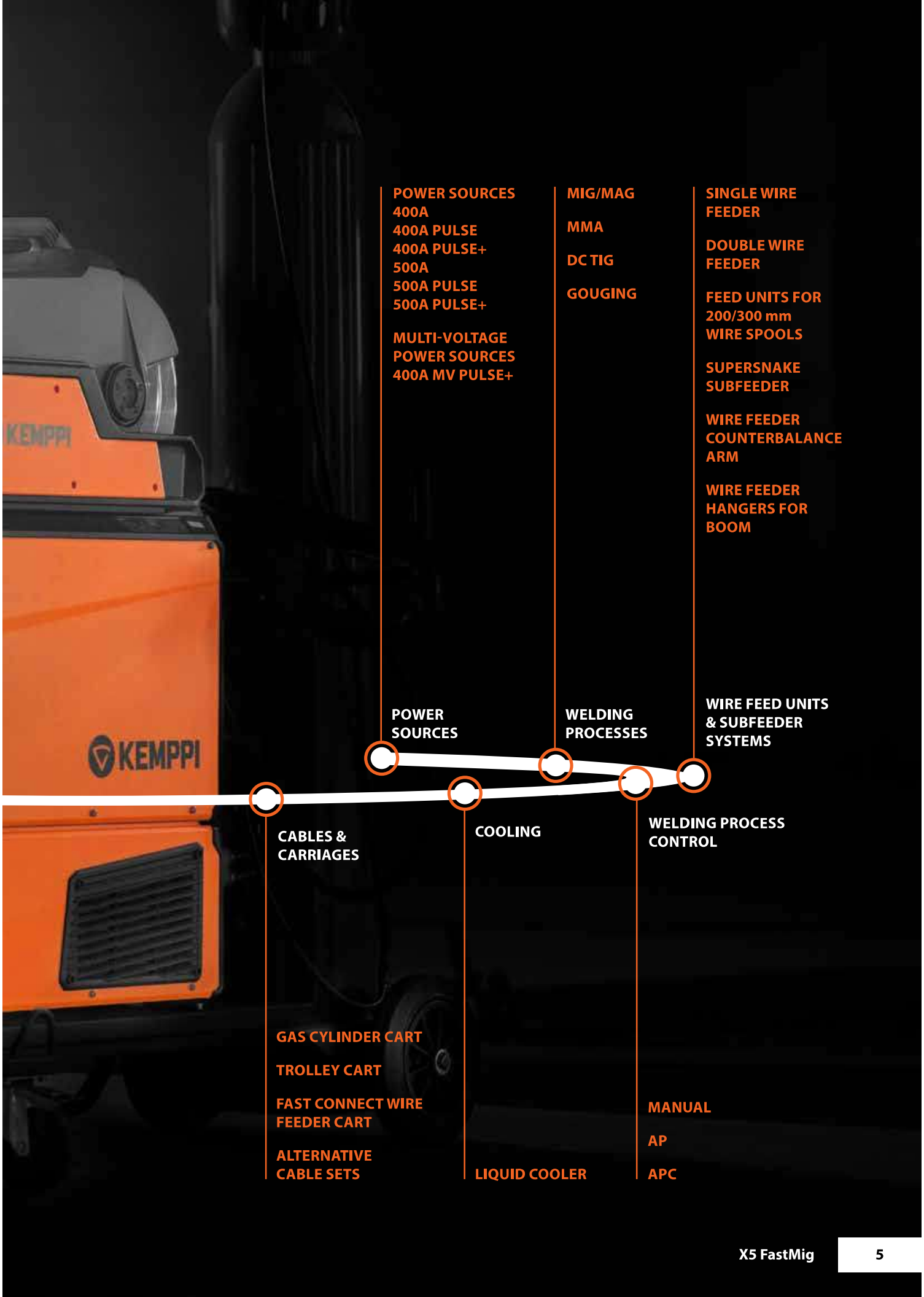
WELDEYE ARCVISION

WELDING SOFTWARE

WELDING SOFTWARE

MAX AND WISE ARC PERFORMANCE PROCESSES

WELD ASSIST


POWER SOURCES
400A
400A PULSE
400A PULSE+
500A
500A PULSE
500A PULSE+
MULTI-VOLTAGE POWER SOURCES
400A MV PULSE+
MIG/MAG
MMA
DC TIG
GOUGING
SINGLE WIRE FEEDER
DOUBLE WIRE FEEDER
FEED UNITS FOR 200/300 mm WIRE SPOOLS
SUPERSNAKE SUBFEEDER
WIRE FEEDER COUNTERBALANCE ARM
WIRE FEEDER HANGERS FOR BOOM
POWER SOURCES
WELDING PROCESSES
WIRE FEED UNITS & SUBFEEDER SYSTEMS
CABLES & CARRIAGES
COOLING
WELDING PROCESS CONTROL
GAS CYLINDER CART
TROLLEY CART
FAST CONNECT WIRE FEEDER CART
ALTERNATIVE CABLE SETS
LIQUID COOLER
MANUAL
AP
APC

Be in control

Exceptional tools make work tasks easy and X5 FastMig provides specific feature options that ensure you achieve top quality welding results.

DIGITAL WPS

Use the dWPS to automatically set and weld within the correct parameter values and receive alerts on any deviations on the screen.

WELD ASSIST

Up to 60% faster than manual mode, Weld Assist sets the welding machine based on your selections for joint type, welding position and material thickness.

TOUCH SENSE IGNITION (TSI)

Minimizes weld spatter and reduces the need for post-weld cleaning.

WIRE FEEDERS

Select the wire feeder model that best meets your needs, including the top-loading X5 Wire Feeder for 300 mm wire spools, extra heavy duty site wire feeders for 200 mm and 300 mm wire spools, as well as SuperSnake GTX distance and access solutions.

They feature robust wire feed mechanisms, quick-release wire feed rolls, wire and gas test buttons, kinetic spool brake and integrated cabinet lighting, so you have a wire feed solution for any application.

POWERLOG

Allows three alternative power level steps during welding, select the power step as needed for your work using the standard gun trigger.

AUTOCOOL ENERGY SAVE

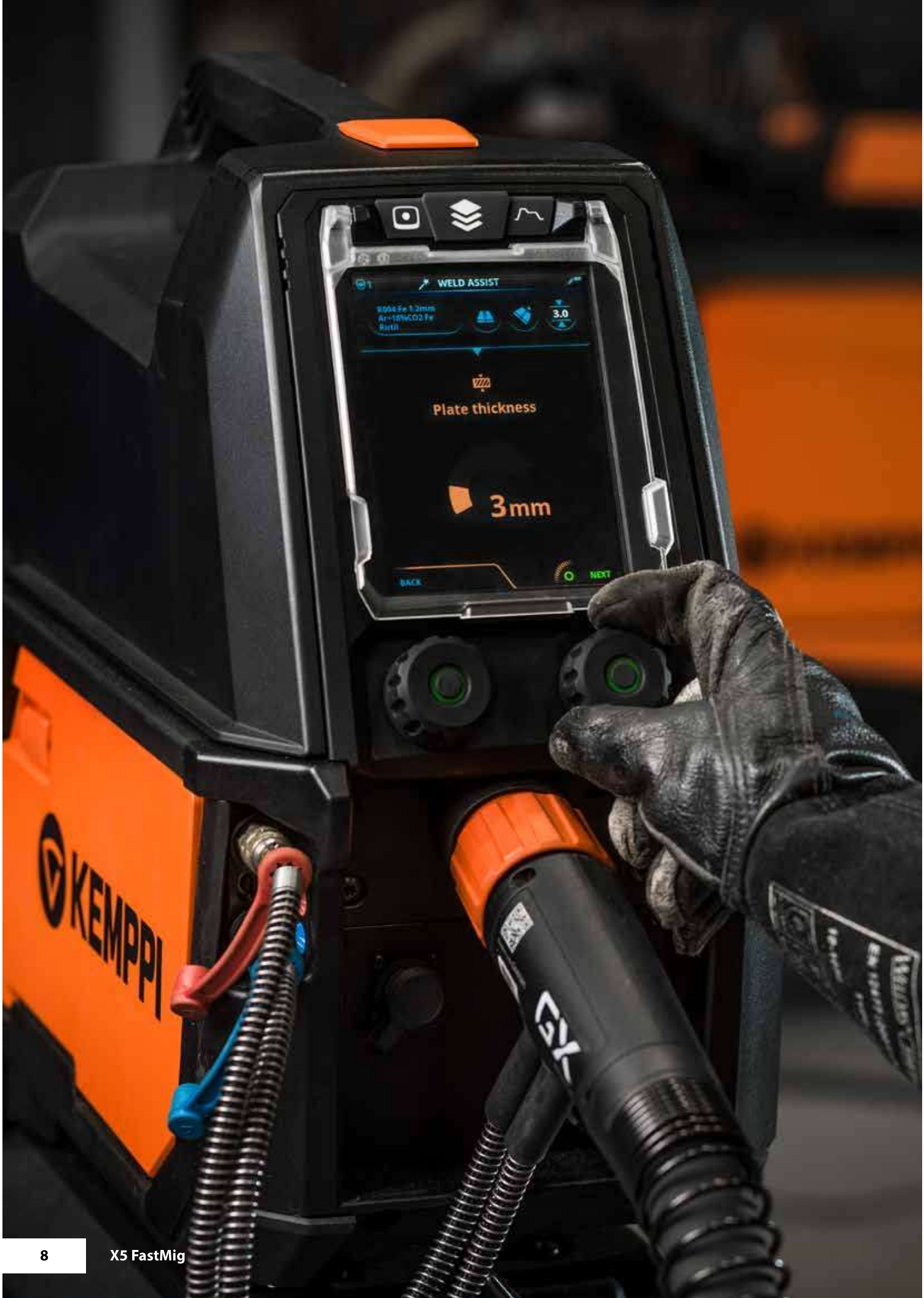
Dynamic cooling manages the air flow and cooling circuit run times automatically based on the welding duration, thus reducing electrical power consumption and noise.

WELDEYE ARCVISION

A digital service that tracks and records arc-on time and welding parameters for better insight into your welding activities. WeldEye ArcVision digitally collects raw data from connected welding stations and presents it in clear tables and graphs that can be filtered based on various needs. This integrated Industry 4.0 solution is available for a free no obligation test and trial period.

TRANSPORT CARRIAGES

Choose from two-wheel and four-wheel carriage options, including fast-connect storage and transportation of wire feed units, innovative floor level gas cylinder loading, improved safety and easier movement around the workshop and on-site.


WELD ASSIST
3.0
Plate thickness
3mm
BACK
NEXT
KEMPPI

Enhanced user experience

Whether your welding activities demand fixed parameter settings or changeable welding tasks, X5 FastMig provides easy and accurate process control through a range of user support features.

WELD ASSIST is a guidance tool for faster set up. Simply select your joint type, welding position and material thickness, and you're ready to weld. Weld Assist is an excellent instructive and educational tool. Once applied, the parameters recommended by Weld Assist can also be manually adjusted for individual preference.

AUTO CABLE CALIBRATION measures the welding circuit resistance and calibrates the digital meters, ensuring that the arc voltage displayed accurately matches the arc voltage on the welding gun. Auto calibration is critical for accurate WPS compliance, and is thus a standard feature in all X5 FastMig systems.

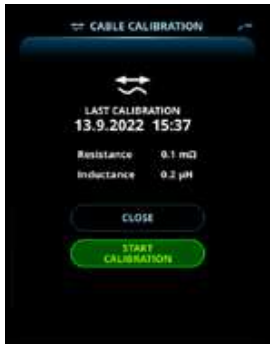
Use **MEMORY CHANNELS** to record your frequently used settings for easy access later. AP and APC wire feeders include 100 memory channels. All parameter values are clearly referenced on the screen.

The **DIGITAL WPS** feature takes full advantage of X5 FastMig's digital platform. The dWPS feature ensures that welding procedure specifications are accurately followed and any deviations are reported on the screen. The digital WPS feature is a part of the Kemppi WeldEye Welding Procedures module, with a free 3-month test and trial license available.

USB BACKUP & RESTORE allows system set up and memory channels to be copied and recorded via the X5 FastMig USB port, stored for security reasons or shared with other equipment for mirroring purposes.

PERSONALIZED SCREENSAVER feature allows you to upload your company logo or favorite image to personalize your X5 FastMig screensaver.

Weld Assist



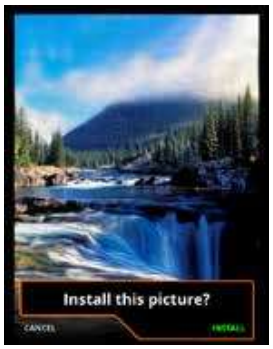
Auto cable calibration

Memory channels

For fast and accurate welding parameter setting, select either the manual or TFT color display control panel.

Digital WPS

USB backup and restore



Personalized screensaver

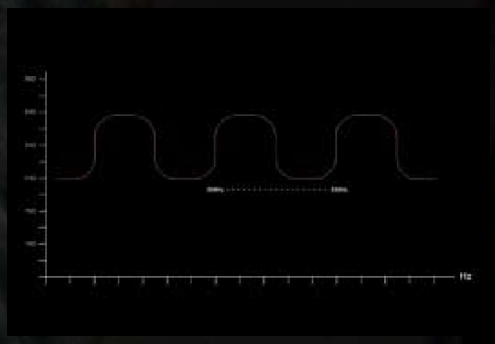
Packed with value added features, the large TFT color graphics display fitted to the AP and APC wire feeder models can be set in either Manual, Auto or Weld Assist setup modes.

Make the seemingly impossible, possible

For challenging welding applications and demanding production targets, new MAX arc performance processes offer increased welding travel speed, improved weld pool control and lower heat input, without the need for an additional voltage sensing cable. The new MAX processes join the already successful Wise modified arc processes and collectively make the seemingly impossible, possible.

MAX SPEED

MAX Speed increases welding travel speed by up to 70%* compared to traditional pulse or spray arc processes. MAX Speed produces clean, high-quality weld seams, effectively reducing labor time and welding costs. MAX Speed is designed for steel and stainless steel welding applications in the PA and PB positions.

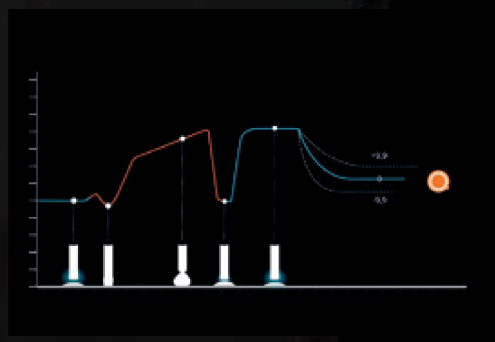


MAX POSITION

MAX Position helps to manage the gravitational effects on a molten weld pool. Improving control and confidence when working in position, MAX Position is excellent when filling and capping in steel, stainless steel and aluminum applications in the PF position.

MAX COOL

MAX Cool lowers heat input by up to 32%, improving control where excessive temperatures negatively impact weld pool stability and increase joint distortion. MAX Cool is ideal for a variety of applications, including thin sheet fabrication, root welding, gap bridging and joining thin extruded sections in solid Fe, Ss, $CuAl_8$ and $CuSi_3$ filler materials.



* Maximum travel speeds measured in automated and semi-automated Ss applications. Speed reductions apply in manual welding applications and Fe material.

See more information about arc performance processes

› kemp.cc/special-processes/com

Reach, weld, move

Welding applications are variable in terms of reach, access, height and distance. X5 FastMig modular design enables alternative equipment configurations for fast changing needs, large sites and varying welding tasks. Wire feeders are a key component of your system build, and X5 FastMig provides a range of compact and lightweight options, supporting 200 mm and 300 mm wire spool sizes, featuring Manual control, plus AP and APC control versions, in both 'Top loader' 300 mm and 'Side loader' HD300 mm models with self-charging LED worklights.

Optional protective metal frame for heavy duty 200 mm wire feeder provides extra durability in extreme site conditions.

Four-wheel wire feeder carriage features a 'fast-connect' design, enabling easy docking with standard X5 FastMig power sources, thus providing secure ground level storage and transportation.

Heavy-duty wire feeders for 200 mm and 300 mm wire spools provide extra durability in extreme site conditions HD 300 mm wire feeder models feature standard integrated LED self charging work lights.

SuperSnake GTX

Distance and access solution

Extending the reach of standard Euro-connected MIG welding guns, SuperSnake GTX provides a simple and effective distance wire feeding solution for a variety of filler wires.

SuperSnake GTX easily reaches the welding targets not accessible with basic welding equipment.

Excellent for customers welding in large site environments, where equipment movement, reach and access present significant challenges.

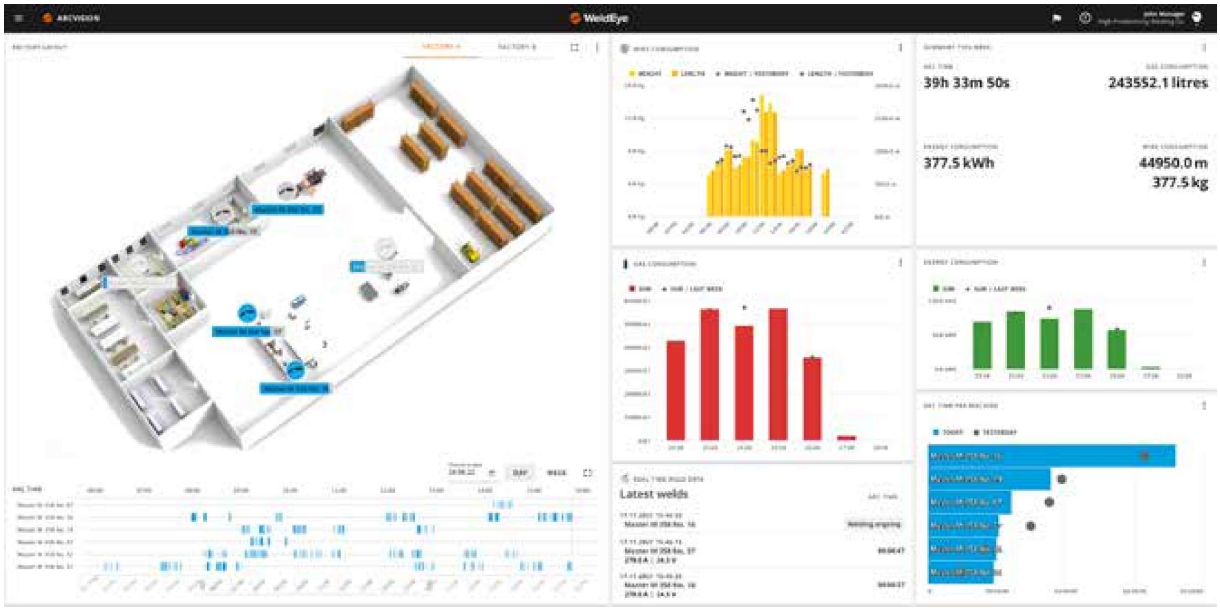
First, check the X5 FastMig user manual for the recommended SuperSnake model, and guidance for your welding application and selected welding process.

More information about SuperSnake subfeeder:

› **kemp.cc/super-snake/com**

WeldEye

KEMPPI INDUSTRY 4.0



Even a simple solution for monitoring welding productivity can bring significant benefits for most companies and improve workflow planning.

WeldEye ArcVision

Gain insight into arc-on time and welding parameters

WeldEye ArcVision is an integrated Industry 4.0 solution that tracks and records arc-on time and welding parameters for better insight into welding production. Raw data is collected digitally from connected welding stations and uploaded wirelessly* to WeldEye ArcVision. The data is then visualized into clear tables and graphs that can be filtered based on different needs and viewed conveniently from your laptop's web browser.

TRY FOR FREE

3 MONTH TRIAL LICENSE

Activate your free three-month trial license of WeldEye ArcVision with no obligation. The trial license also includes WeldEye's Welding Procedures module, allowing you to test the digital WPS (dWPS) feature with X5 FastMig.

Read more on weldeye.com

* X5 Wire Feeder APC models can be connected to WeldEye ArcVision.

Do you know how your welding machines are being used?

WeldEye ArcVision collects data automatically from all connected welding stations without additional actions from machine users:

- arc-on time per hour, day, week, or month
- welding parameters (A; V)
- filler wire usage (kg)
- energy consumption (kWh)

Clear visualizations make production analysis straightforward:

- station-specific welding data with latest welds
- arc-on time comparison views
- real-time use of welding machines on workshop layout
- machine-specific information, e.g. setup, software versions
- main view customization options with widgets

TECHNICAL SPECIFICATIONS

X5 POWER SOURCE		400	400 PULSE	400 PULSE+	400 MV PULSE+
Mains connection voltage 3~ 50/60 Hz		380...460 V ±10 %	380 - 460 ±10 %	380 - 460 ±10 %	220 - 230 ±10 % 380 - 460 ±10 %
Output at +40 °C	40 % ED 60 % ED 100 % ED	- 400 A 350 A	- 400 A 350 A	- 400 A 350 A	400 @ [220 - 230 V] 400 @ [380 - 460 V] 350
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 ... 400 A/50V 15 A/10 V ... 400 A/50V 15 A/1 V ... 400 A/50V	15 A/10 V ... 400 A/50V 15 A/10 V ... 400 A/50V 15 A/1 V ... 400 A/50V	15 A/10 V ... 400 A/45V 15 A/10 V ... 400 A/45V 15 A/1 V ... 400 A/45V
Operating temperature range		-20…+40 °C	-20…+40 °C	-20…+40 °C	-20…+40 °C
Storage temperature range		-40…+60 °C	-40…+60 °C	-40…+60 °C	-40…+60 °C
EMC class		A	A	A	A
Degree of protection		IP23S	IP23S	IP23S	IP23S
External dimensions L x W x H		750 x 263 x 456 mm	750 x 263 x 456 mm	750 x 263 x 456 mm	750 x 263 x 456 mm
Weight without accessories		39.0 kg	39.5 kg	39.5 kg	39.5 kg

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

X5 WIRE FEEDER	200	300	300HD	X5 COOLER	COOLER	COOLER MV
Gun connection	Euro	Euro	Euro	Cooling power at 1 l/min	1.1 kW	1.0 kW
Wire feed mechanism	4-roll, single-motor	4-roll, single-motor	4-roll, single-motor	Recommended coolant	MGP 4456 (Kemppi mixture)	MGP 4456 (Kemppi mixture)
Diameter of feed rolls	32 mm	32 mm	32 mm	Tank volume	4 l	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	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	-10...+40 °C
Wire feed speed	0.5 ... 25 m/min	0.5 ... 25 m/min	0.5 ... 25 m/min	Storage temperature range	-40...+60 °C	-40...+60 °C
Wire spool weight (max)	5 kg	20 kg	20 kg	EMC class	A	A
Wire spool diameter (max)	200 mm	300 mm	300 mm	Degree of protection (when mounted)	IP23S	IP23S
Shielding gas pressure (max)	0.5 MPa	0.5 MPa	0.5 MPa	Weight without accessories	14.3 kg	15.7 kg
Operating temperature range	-20…+40 °C	-20…+40 °C	-20…+40 °C			
Storage temperature range	-40…+60 °C	-40…+60 °C	-40…+60 °C			
EMC class	A	A	A			
Degree of protection	IP23S	IP23S	IP23S			
External dimensions LxWxH	565 x 218 x 339 mm	650 x 230 x 410 mm	670 x 240 x 465 mm			
Weight without accessories	9.7 kg	10.9 kg	14.4 kg			

MODEL CONFIGURATIONS

X5 FastMig allows different system configurations for different applications. All X5 power source and wire feeder model combinations are possible and allow welding, but the configuration guidelines presented in the table below need be followed to access all of the features of each configuration option.

X5 FastMig minimum configuration requirements for each system (Manual/Auto/Pulse).

	X5 FASTMIG MANUAL [1]	X5 FASTMIG AUTO [2]	X5 FASTMIG PULSE [3]
Wire feeder	X5 Wire Feeder 200 Manual	X5 Wire Feeder 300 AP	X5 Wire Feeder 300 AP
	X5 Wire Feeder 300 Manual	X5 Wire Feeder 300 APC	X5 Wire Feeder 300 APC
	X5 Wire Feeder HD300 M	X5 Wire Feeder HD300 AP	X5 Wire Feeder HD300 AP
		X5 Wire Feeder HD300 APC	X5 Wire Feeder HD300 APC
Power Source	X5 Power Source 400	X5 Power Source 400	X5 Power Source 400 Pulse
	X5 Power Source 500	X5 Power Source 500	X5 Power Source 400 Pulse+
			X5 Power Source 500 Pulse
			X5 Power Source 500 Pulse+
			X5 Power Source 400 MV Pulse+

[1] *X5 FastMig Manual equipment is meant for welding with manual controls.*
[2] *X5 FastMig Auto equipment also enables automatic 1-MIG welding with additional welding processes as an option.*
[3] *X5 FastMig Pulse equipment also enables automatic 1-MIG and pulse welding with additional welding processes as an option.*

See more technical specifications:
› kemp.cc/x5/manuals

See ordering information:
› kemp.cc/x5/product-codes

QR CODE

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

Designed for welders

Kemppi is the design leader of the arc welding industry.
We are committed to boosting the quality and productivity of welding by continuously developing the welding arc and working for a greener and equal world.

Kemppi supplies sustainable 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.

With headquarters in Lahti, Finland, Kemppi employs close to 800 professionals in 16 countries and has an annual revenue of 178 MEUR.

www.kemppi.com

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