



FastMig X

Get ready for the **best welds** of your life



Weld with **25%** lower heat input

Robust workshops, for example in heavy machinery manufacturing and rolling stock manufacturing, need reliable MIG/MAG welding for various demanding applications. We assembled the perfect setup for high-quality pulse welding that saves energy, time and money. See how to raise productivity and quality of basic pulse welding to a new level.

5 times faster than TIG

In pipe welding, the quality demands are high and productivity expectations can be even higher. When we are talking about thousands and thousands of welds in oil & gas pipelines, water pipelines or pressure vessels, even a small increase in quality and productivity will count – and we promise you a big one.



FastMig X Intelligent

High-end multi-process welding equipment for demanding welding applications

Briefly

- For demanding welding applications
- Wide range of applications with one equipment – Smaller investment costs, more turnover, more efficient production
- ARC Mobile Control solution
- Wise processes – Better welding quality and optimized production flow
- 39 % lower shielding gas costs with WiseThin+ process

Applications

- Colleges, universities, research centers, regulating institutes
- Multimaterial workshops, offshore, subsea
- High strength steel welding
- Aluminium (ships and boats)



Product description

Kemppi's FastMig X product series is a versatile range of high-end multi-process welding equipment. It contains device and software components specially designed for certain welding applications.

There are three ready-made sample setups available for FastMig X: **Regular**, **Pipe** and **Intelligent**, all of them either air or liquid cooled.

This datasheet presents the FastMig X Intelligent setup, which is intended for intelligent and demanding workshop use for welding any metal or process, also thin steel. Please see also the datasheets for the Pipe and Regular setups.

Sample setup: FastMig X Intelligent

- Power source options: FastMig X 450, 350 or 350MV (multi-voltage), all of them including the MMA option.
- Fixed X 37 power source control panel contains 10 user profiles and 10 memory channels for each profile. Can be replaced with the Remote X 37 panel.
- Wire feeder options: WFX 200 AMC or WFX 300 AMC.
- Cool X cooling unit for liquid-cooled setups.
- Includes WisePenetration™, WiseThin+™, WiseFusion™ and MatchLog™ welding optimization software.
- ARC Mobile Control for easy and precise control of the welding machine with a mobile phone or a tablet computer.
- Several optional extras. See the next page for further details.

NOTE: All wire feeders are delivered without feed rolls, liners and wire guide tubes. They can be ordered separately based on the welding application. For information, please visit go.kemppi.com/kitselect.



Compatible with these welding quality solutions

- Kemppi ARC System for managing welding production
- ArcInfo for monitoring the welding process
- Kemppi Universal WPS packages for MMA and MIG/MAG welding

Detailed technical information can be found in the technical data tables later in this datasheet.

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Wire feeders

WFX 200 AMC and WFX 300 AMC:

- Wire spool sizes: 5 kg/200 mm in WFX 200 AMC and 20 kg/300 mm in WFX 300 AMC.
- Equipped with the reliable DuraTorque™ wire feed mechanism.
- WiseFusion™, WisePenetration™, WiseThin+™ and MatchLog™ included.
- Compatible with all Wise™ software products.
- Pulsed and double-pulsed MIG/MAG included.
- ArcVoltage feature included. It measures the actual voltage at the welding arc and displays it on the control panel. This helps you keep your welding values inside the predefined range regardless of the size and length of the cables.



ARC Mobile Control

The FastMig X Intelligent setup includes ARC Mobile Control adapter for wireless monitoring and controlling the welding parameters through a dedicated mobile application on Android mobile devices, such as tablet computers or smartphones. *

With ARC Mobile Control you can

- transfer settings from one welding machine to another
- monitor, control and adjust welding parameters and settings.

*) To use ARC Mobile Control you also need a mobile device with Android 4.0 operating system or newer, Bluetooth feature, and Kemppei's ARC Mobile Control application. With certain mobile device models, Near Field Communication (NFC) can also be used for smart connection between the welding machine and the mobile device.



Optional extras

- SuperSnake sub feeder for extra wide working range
NOTE: WiseRoot+ and WiseThin+ cannot be used with SuperSnake.
NOTE: Not possible to use SuperSnake with WFX 200 AMC feeders.
- PMT MN multi-neck welding guns with changeable neck options optimized for different welding tasks, e.g. root welding.
- Remote X 37 control panel to replace the fixed control panel on power source.
- Hand remote control units R 10, R 20 and R 30.
- Transport units.



For more product information, videos and news, please visit our website at www.kemppi.com

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Technical data

FastMig™		X 350	X 450
Connection voltage		400 V, -15...+20 %	400 V, -15...+20 %
Rated power	60 % ED		22.1 kVA
	80 % ED	16.0 kVA	
	100 % ED	15.3 kVA	16.0 kVA
Output 40 °C	60 % ED		450 A
	80 % ED	350 A	
	100 % ED	330 A	350 A
Welding current and voltage range	MMA	15 A/20 V – 350 A/46 V	15 A/20 V – 450 A/46 V
	MIG	20 A/12 V – 350 A/46 V	20 A/12 V – 450 A/46 V
Max. welding voltage MMA		46 V	46 V
Open circuit voltage	MMA	$U_0 = 70 - 98 \text{ V}$ $U_{av} = 50 \text{ V}$	$U_0 = 70 - 98 \text{ V}$ $U_{av} = 50 \text{ V}$
	MIG/MAG/Pulse	$U_0 = 80 - 98 \text{ V}$	$U_0 = 80 - 98 \text{ V}$
Open circuit power		100 W	100 W
Power factor at max. current		0.85	0.88
Efficiency at 100 % ED		87 %	87 %
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	590 x 230 x 430 mm	590 x 230 x 430 mm
Weight		38 kg	38 kg

The minimum recommended generator output is 35 kVA.

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Technical data

FastMig™ X 350MV		230 V range	400 V range
Connection voltage	3~50/60 Hz	220 V -10%...230 V +10%	380 V -10%...440 V +10%
Rated power	80 % ED	16.0 kVA	16.0 kVA
	100 % ED	15.3 kVA	15.3 kVA
Output 40 °C	80 % ED	350 A	350 A
	100 % ED	330 A	330 A
Welding current and voltage range	MMA	15 A/20 V – 350 A/46 V	15 A/20 V – 350 A/46 V
	MIG	20 A/12 V – 350 A/46 V	20 A/12 V – 350 A/46 V
Max. welding voltage MMA		46 V	46 V
Open circuit voltage	MMA	$U_0 = 70 - 98 \text{ V}, U_{av} = 50 \text{ V}$	$U_0 = 70 - 98 \text{ V}, U_{av} = 50 \text{ V}$
	MIG/MAG/Pulse	$U_0 = 80 - 98 \text{ V}$	$U_0 = 80 - 98 \text{ V}$
Open circuit power		100 W	100 W
Power factor at max. current		0.90	0.88 ... 0.82
Efficiency at 100 % ED		83 %	85 %
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	590 x 230 x 580 mm	590 x 230 x 580 mm
Weight		49 kg	49 kg

The minimum recommended generator output is 35 kVA.

WFX		200 AMC	300 AMC
Output 40 °C	60 % ED	520 A	520 A
	100 % ED	440 A	440 A
Wire feed speed		1 – 25 m/min	1 – 25 m/min
Wire feed mechanism		4-roll	4-roll
Diameter of feed rolls		32 mm	32 mm
Filler wires	∅ Fe, Ss	0.6 – 1.6 mm	0.6 – 1.6 mm
	∅ Cored wire	0.8 – 2.0 mm	0.8 – 2.0 mm
	∅ Al	0.8 – 2.4 mm	0.8 – 2.4 mm
Wire spool	max. weight	5 kg	20 kg
	max. ∅	200 mm	300 mm
Operation 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	510 x 200 x 310 mm	625 x 243 x 476 mm
Weight		9.4 kg	12.5 kg

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Ordering information

FastMig X 450 power source	X 37 control panel included	6103450
FastMig X 450 power source	No control panel	610345001
FastMig X 350 power source	X 37 control panel included	6103350
FastMig X 350 power source	No control panel	610335001
FastMig X 350MV power source	X 37 control panel included	6103353
FastMig X 350MV power source	No control panel	610335301
WFX 200 wire feeder	200 mm, regular pulse welding	6103520
WFX 300 wire feeder	300 mm, regular pulse welding	6103530
WFX 200 P Fe wire feeder	200 mm, pipe welding, steel	6103521
WFX 300 P Fe wire feeder	300 mm, pipe welding, steel	6103531
WFX 200 P Ss wire feeder	200 mm, pipe welding, stainless steel	6103522
WFX 300 P Ss wire feeder	300 mm, pipe welding, stainless steel	6103532
WFX 200 AMC wire feeder	200 mm, intelligent pulse welding	6103523
WFX 300 AMC wire feeder	300 mm, intelligent pulse welding	6103533
WFX 200-T	200 mm, tailored	6103524
WFX 300 P-T	300 mm, tailored	6103535
WFX 300-T	300 mm, tailored	6103534

Control devices

Remote X 37 control panel		6103800
Arc Mobile Control adapter	Bluetooth adapter for Arc Mobile Control (included with WFX 200 AMC and WFX 300 AMC)	6103100

Cables

Earth return cable	5 m, 50 mm ²	6184511
Earth return cable	5 m, 70 mm ²	6184711
MMA welding cable	5 m, 50 mm ²	6184501
MMA welding cable	5 m, 70 mm ²	6184701

Interconnection cables, air-cooled

FASTMIG X 70-1.8-GH	1.8 m	6260468
FASTMIG X 70-5-GH	5 m	6260469
FASTMIG X 70-10-GH	10 m	6260470
FASTMIG X 70-20-GH	20 m	6260471
FASTMIG X 70-30-GH	30 m	6260472

– For other lengths, please contact Kemppi.



www.fastmigx.kemppi.com



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