



## KEY BENEFITS



### WISE PROCESSES

Optimized arc characteristics for any welding application



### FASTER SETUP CONFIGURATION

Compared to standard MIG welding equipment



### CORRECT WELDING PARAMETERS

Ensured by digital WPS (dWPS)

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## BENEFITS

- Best arc characteristics for high performance austenitic stainless steels, aluminums and advanced high-strength steels
- Precisely controlled, upgradeable welding current up to 600 A
- Digital WPS feature allows the welder to quickly and easily access the WPSs
- Innovatively designed wire feeder ensures safe and ergonomic loading of filler wire spool
- Well-balanced welding guns with a detachable handle make welding more comfortable
- Wire feeder and welding gun lighting enable working in dimly lit conditions
- Tool-free coolant filling with an integrated cooling unit
- Includes a fleet management service free of charge
- Native connectivity to WeldEye software modules [Welding Procedure and Qualification Management](#), [Welding Quality Management](#) and [Welding Production Analysis](#)



## PRODUCT OPTIONS



### X8 Power Source 400

Provides 400 A with 60% duty cycle. Can be ordered with or without X8 Cooler. Control Pad always included with the power source.



### X8 Power Source 400 MV

Provides 400 A with 60% duty cycle. The multi-voltage power source is suitable for the most common electrical network voltages. Control Pad always included with the power source. X8 Cooler not included.



### X8 Power Source 500

Provides 500 A with 60% duty cycle. Control Pad and X8 Cooler always included with the power source.



### X8 Power Source 500 MV

Provides 500 A with 60% duty cycle. The multi-voltage power source is suitable for the most common electrical network voltages. Control Pad and X8 Cooler always included with the power source.



### X8 Power Source 600

Provides 600 A with 40% duty cycle. Control Pad and X8 Cooler always included with the power source.



### X8 Power Source 600 MV

Provides 600 A with 40% duty cycle. The multi-voltage power source is suitable for the most common electrical network voltages. Requires a 63 A plug. Control Pad and X8 Cooler always included with the power source.



### X8 Wire Feeder

Ergonomically designed wire feeder suitable for all applications. Fast gun connection and disconnection, cabinet lights and reliable wire feeding. Easy to use, maintain and assemble.



### 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.



### WiseSteel

A welding function especially designed to tackle the challenges of globular transfer. WiseSteel alternates short arc transfer with spray transfer, which produces sound welds characterized by a regular fish-scale pattern.



### WisePenetration+

A welding function for synergic and pulsed MIG/MAG welding that ensures weld penetration regardless of variation in the contact-tip-to-work distance. Keeps the welding power stabilized in all situations.



### WiseRoot+

Optimized short arc process for productive root pass welding. Excellent weld quality through control of arc voltage and timing of filler metal droplet transfer. Gives higher speed than MMA, TIG or MIG/MAG short arc welding.



### WiseThin+

Optimized short arc process suitable for welding sheet metals and thicker plates in position welding, even in case of wider gaps and gap variations. Produces a spatterless arc with precise digital control.

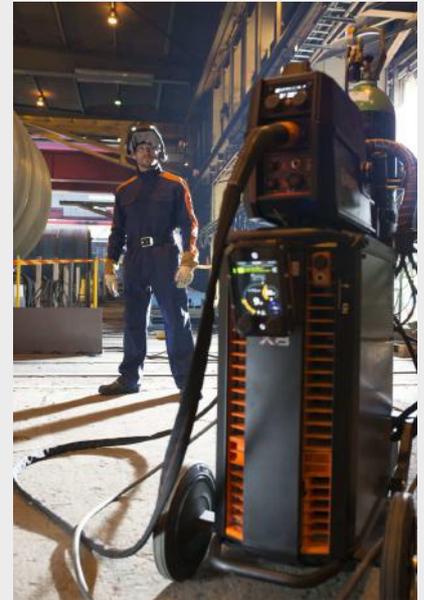


# TECHNICAL SPECIFICATIONS

## POWER SOURCES

### X8 Power Source 400

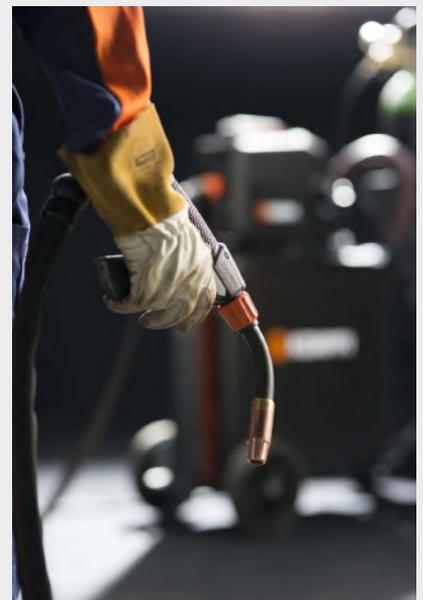
Product code	X8100400000 - X8 Power Source 400 X8100400001 - X8 Power Source 400, CUSTOM (Work Pack + WiseFusion) X8100401000 - X8 Power Source 400, cooler X8100401001 - X8 Power Source 400, cooler, CUSTOM (Work Pack + WiseFusion)
Connection voltage 3~ 50/60 Hz	380 - 460 V $\pm$ 10 %
Fuse	32 A
Open circuit power (MMA) (without cooler and wire feeder, fans OFF)	44 - 53 W
Open circuit power (MMA) (without cooler and wire feeder, fans ON)	107 - 111 W
Open circuit power (MMA) (with cooler, without wire feeder, fans ON)	132 - 137 W
Output 60% ED	400 A
Output 100% ED	320 A
Welding current and voltage range, MIG @ 380 V	20A/14V - 400A/50V
Welding current and voltage range, MMA @ 380 V	15A/20V - 400A/58V
Recommended generator power (min)	25 kVA
Open circuit voltage MMA	50 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	921 x 348 x 795 mm
Weight (no accessories)	95 kg





## X8 Power Source 400 MV

Product code	X8100400101 - X8 Power Source 400 MV, CUSTOM (Work Pack + WiseFusion)
Connection voltage 3~ 50/60 Hz	220 - 230 V $\pm$ 10 % 380 - 460 V $\pm$ 10 %
Fuse	32 A
Fuse, 380 - 460 V	63 A
Open circuit power (MMA) (without cooler and wire feeder, fans OFF)	44 - 53 W
Open circuit power (MMA) (without cooler and wire feeder, fans ON)	99 - 111 W
Output 60% ED	400 A
Output 100% ED	320 A
Welding current and voltage range, MIG @ 220 V	20 A/14 V - 400 A/50 V
Welding current and voltage range, MIG @ 380 V	20 A/14 V - 400 A/50 V
Welding current and voltage range, MMA @ 220 V	15 A/20 V - 400 A/58 V
Welding current and voltage range, MMA @ 380 V	15 A/20 V - 400 A/58 V
Recommended generator power (min)	35 kVA
Open circuit voltage MMA	50 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	921 x 348 x 795 mm
Weight (no accessories)	95 kg





## X8 Power Source 500

Product code	X8100501000 - X8 Power Source 500, cooler X8100501001 - X8 Power Source 500, cooler, CUSTOM (Work Pack + WiseFusion)
Connection voltage 3~ 50/60 Hz	380 - 460 V $\pm$ 10 %
Fuse	32 A
Open circuit power (MMA) (without cooler and wire feeder, fans OFF)	44 - 53 W
Open circuit power (MMA) (without cooler and wire feeder, fans ON)	107 - 111 W
Open circuit power (MMA) (with cooler, without wire feeder, fans ON)	132 - 137 W
Output 60% ED	500 A
Output 100% ED	400 A
Welding current and voltage range, MIG @ 380 V	20A/14V - 500A/55V
Welding current and voltage range, MMA @ 380 V	15A/20V - 500A/57V
Recommended generator power (min)	35 kVA
Open circuit voltage MMA	50 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	921 x 348 x 795 mm
Weight (no accessories)	95 kg





## X8 Power Source 500 MV

Product code	X8100501100 - X8 Power Source 500 MV, cooler X8100501101 - X8 Power Source 500 MV, cooler, CUSTOM (Work Pack + WiseFusion)
Connection voltage 3~ 50/60 Hz	220 - 230 V $\pm 10$ % 380 - 460 V $\pm 10$ %
Fuse	32 A
Fuse, 380 - 460 V	63 A
Open circuit power (MMA) (without cooler and wire feeder, fans OFF)	44 - 53 W
Open circuit power (MMA) (without cooler and wire feeder, fans ON)	99 - 111 W
Open circuit power (MMA) (with cooler, without wire feeder, fans ON)	121 - 137 W
Output 60% ED	500 A
Output 100% ED	400 A
Welding current and voltage range, MIG @ 220 V	20A/14V - 500A/55V
Welding current and voltage range, MIG @ 380 V	20A/14V - 500A/55V
Welding current and voltage range, MMA @ 220 V	15A/20V - 500A/57V
Welding current and voltage range, MMA @ 380 V	15A/20V - 500A/57V
Recommended generator power (min)	35 kVA
Open circuit voltage MMA	50 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	921 x 348 x 795 mm
Weight (no accessories)	95 kg



## X8 Power Source 600

Product code	X8100601000 (Incl. X8 Control Pad and X8 Cooler) Power upgrade 600 for X8 Power Source - X8560000
Connection voltage 3~ 50/60 Hz	380 - 460 V $\pm$ 10 % 380 - 460 V $\pm$ 10 %
Fuse	35 A
Open circuit power (MMA) (without cooler and wire feeder, fans OFF)	44 - 53 W
Open circuit power (MMA) (without cooler and wire feeder, fans ON)	107 - 111 W
Open circuit power (MMA) (with cooler, without wire feeder, fans ON)	132 - 137 W
Output 40% ED	600 A
Output 60% ED	530 A
Output 100% ED	440 A
Welding current and voltage range, MIG @ 380 V	10A/10V - 600A/57V
Welding current and voltage range, MMA @ 380 V	10A/10V - 600A/58,5V
Recommended generator power (min)	40 kVA
Open circuit voltage MMA	50 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	921 x 348 x 795 mm
Weight (no accessories)	95 kg



## X8 Power Source 600 MV

Product code	X8100601100 (Incl. X8 Control Pad and X8 Cooler) Power upgrade 600 for X8 Power Source - X8560000
Connection voltage 3~ 50/60 Hz	220 - 230 V $\pm 10$ % 380 - 460 V $\pm 10$ %
Fuse, 380 - 460 V	35 A
Open circuit power (MMA) (without cooler and wire feeder, fans OFF)	44 - 53 W
Open circuit power (MMA) (without cooler and wire feeder, fans ON)	99 - 111 W
Open circuit power (MMA) (with cooler, without wire feeder, fans ON)	121 - 137 W
Output 40% ED	600 A
Output 60% ED	530 A
Output 100% ED	440 A
Welding current and voltage range, MIG @ 220 V	10A/10V - 600A/47V
Welding current and voltage range, MIG @ 380 V	10A/10V - 600A/57V
Welding current and voltage range, MMA @ 220 V	10A/10V - 600A/47V
Welding current and voltage range, MMA @ 380 V	10A/10V - 600A/58.5V
Recommended generator power (min)	40 kVA
Open circuit voltage MMA	50 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	921 x 348 x 795 mm
Weight (no accessories)	95 kg
Fuse, 220 - 230 V	63 A



## WIRE FEEDERS

### X8 Wire Feeder

Product code	X8200000002 (X8200000001 with cabinet heater)
Wire feed mechanism	4-roll, twin-motor
Welding current 40 % ED, I2	600 A
Welding current 60 % ED, I2	530 A
Welding current 100 % ED, I2	440 A
Gun connection	Kemppi
Filler wires, Ss	0.6 - 2.4 mm
Filler wires, Al	0.8 - 2.4 mm
Filler wires, Fe	0.6 - 2.4 mm
Filler wires, MC/FC	0.8 - 2.4 mm
Wire feed speed	0.5 - 25 m/min
Wireless communication type	2.4 GHz Bluetooth
Operating temperature range	-20...+40 °C
External dimensions LxWxH	640 x 220 x 400 mm
Weight (no accessories)	11.2 kg
Degree of protection	IP23S
Wire spool weight, max.	20 kg
Wire spool diameter, max.	300 mm
EMC class	A

## SOFTWARE

### WiseFusion

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

Product code	X8500001
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### WisePenetration+

Product code	X8500002 (X8 MIG Welder)
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### WiseRoot+

Product code	9990418 (FastMig X) X8500003 (X8 MIG Welder)
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## WiseThin+

Product code	9990419 (FastMig X) X8500004 (X8 MIG Welder)
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## ACCESSORIES

### Control Pad

Product code	X8400110001 (Spare part)
Wireless communication type	2.4 GHz Bluetooth
Typical battery operation time	15-24 h
Typical battery charging time	5 h
Typical wireless communication range	15 m
Wired communication type	USB
Display type	TFT LCD
Display size	5.7"
Operating temperature range	-20...+40 °C
External dimensions LxWxH	200 x 130 x 33 mm
Weight (no accessories)	0.89 kg
Degree of protection	IP54
Battery type	Li-ion

### X8 Cooler

Product code	X8600000000
Rated cooling power at 1 l/min	1.4 kW
Rated cooling power at 1.6 l/min	1.9 kW
Recommended coolant	MPG 4456 (Kemppi mixture)
Operating temperature range	-10...+40 °C
Weight (no accessories)	15.5 kg
Degree of protection	IP23S
Tank volume	4 l
EMC class	A