

Master 315

EXTRA TO THE ORDINARY – OPTIMAL STICK WELDING
PERFORMANCE





Master 315



EXTRA TO THE ORDINARY – OPTIMAL STICK WELDING PERFORMANCE

Master 315 is a stylish and practical stick welding machine, capable of absorbing the knocks and impacts of everyday welding life. Premium-class stick welding is characterized by reliable ignition, arc stability, and suitability for all electrodes, including cellulosic.

Lightweight and compact, the Master 315 is constructed from tough injection-molded plastic, featuring impact bridge protection structures, making it your reliable partner for workshop or site use.

Master 315 guarantees optimal welding performance and fast parameter setting, supported by the innovative **Weld Assist** menu selection tool. Weld Assist ensures suitable parameters are set for each application, regardless of your welding experience. Select the electrode type, electrode size, and joint type, and Weld Assist makes the perfect setting for you.

Stick welding may be a basic welding process, but Master 315 adds the extra to the ordinary in a perfect blend for professional welding.



KEY BENEFITS



WELD ASSIST

Take the guesswork out of MMA parameter setting with Weld Assist, which lowers setup speed by up to 60 % and ensures suitable parameter setup the first time and every time.



HIGH-QUALITY STICK WELDING

Perfect welds are characterized by a smooth, controlled arc performance. Master 315 has the dynamic performance to keep the arc under control, including cellulosic electrodes.



WIRELESS REMOTE CONTROL

Extend usability and eliminate hazards with the HR45 wireless remote control. You can set the power level simply and safely and select memory channels up to 100 m from your workstation.

BENEFITS

- 60 % faster parameter setting with Weld Assist selection tool
- Wireless remote control extends usability and removes safety trip hazards
- A full-color 7-inch TFT display ensures the best user experience
- Suitable for all electrode types
- Special welding program for cellulosic electrode welding
- 99 memory channels for saving welding parameters or WPS values
- When connected to a **Flexlite TX223GVD134** TIG torch Master 315 provides an excellent power source for quality DC TIG welding
- Made from strong and recyclable plastics protecting the power source from the everyday knocks
- Separate models for generator use, multi-voltage applications and VRD
- The power source is easy to combine with optional Kemppi transport units



PRODUCT OPTIONS



Master 315 G

300 A stick welding power source suitable for generator use. Equipped as standard with a full-color 7-inch TFT display. When connected to a Flexlite TX 223GVD13 torch, Master 315 provides an excellent power source for quality DC TIG welding.



Master 315 G AU

300 A stick welding power source suitable for generator use. This model is equipped with Voltage Reduction Device, meeting specific market needs. Equipped as standard with a full-color 7-inch TFT display. When connected to a Flexlite TX 223GVD13 torch, Master 315 provides an excellent power source for quality DC TIG welding.



Master 315 GM

300 A stick welding power source suitable for generator and multi-voltage use. Equipped as standard with a full-color 7-inch TFT display. When connected to a Flexlite TX 223GVD13 torch, Master 315 provides an excellent power source for quality DC TIG welding.

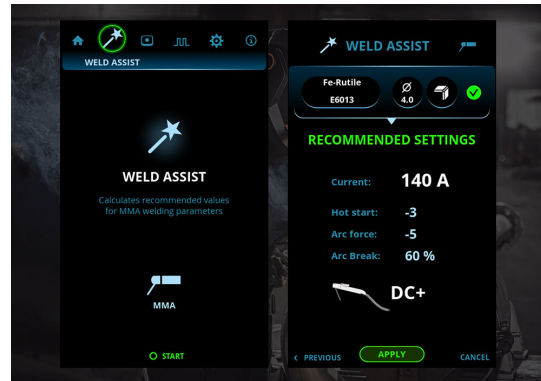


FEATURES



UI Control panel

Equipped as standard with a full-color 7-inch TFT display, Master 315 defines the best user experience and accuracy for weld parameter setting and control. Protected by a 3 mm armor shield plate, the display is both robust and impact-resistant. Master 315 also includes 99 memory channels for your best parameter settings or WPS values to save and recall as required.



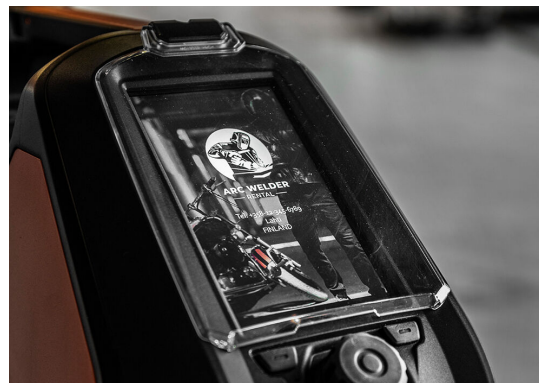
Weld Assist

Set your machine the first time and every time with Weld Assist. Weld Assist quickly sets your target range parameters, guiding every welder towards accurate, productive welding. Follow the simple on-screen steps, by selecting the electrode type, electrode size, and joint configuration. Perfect for pWPS creation.



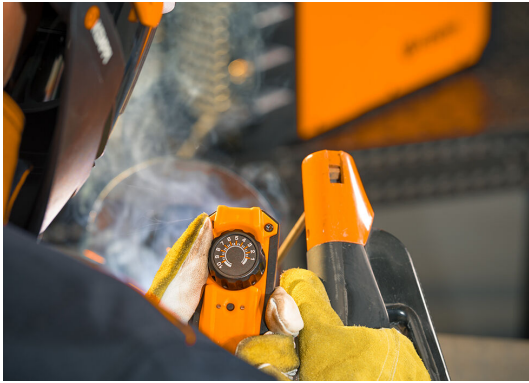
Cellulosic welding performance

Excellent cellulosic welding performance requires a big voltage reserve. Master 315 Weld Assist has a special welding program designed for cellulosic electrode welding, ensuring the unique arc force crucial for quality performance with cellulosic welding electrodes.



Personalize

Upload your company logo, contact details or favorite image to the Master 315 screen saver. It's simple and fast.



Wireless remotes

Experience the magic of cordless remote control. Select the HR45 remote control and enjoy wireless power or channel control from a distance of up to 100 meters (approx. 328 feet). Eliminate the need for remote cable repairs and improve worksite safety by using the HR45 wireless remote.



Pulsed MMA welding process

For selected applications, Pulsed MMA can lower the overall heat input, improve welding arc control, and increase welding speed. Additional benefits of Pulsed MMA include excellent positional and root pass welding properties, cleaner welds, and reduced heat deformation.



ARCbreak technology

ARCbreak technology provides welding professionals a variable parameter setting to easily make and break the welding arc during MMA welding. With better control of the weld pool and heat input, ARCbreak helps you avoid burn through, improves overall weld quality, and increases tack welding speed. ARCbreak can be optimized through the Weld Assist menu for variable electrode types.



Impact bridge

Master 315 is designed and constructed from strong, energy-absorbing, recyclable plastics, incorporating impact bridge structures that better protect the power source from the everyday knocks of welding life.



Weld time clock

The weld time clock allows you to record and compare welding jobs. Ideal for total weld cycle measurement, labor cost estimations, and job data records. The weld time clock is simple and fast to reset.



QR code

Master 315 is equipped with a unique and scannable QR code. It enables 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.



ACCESSORIES



TX 223GVD13

200 A, gas-cooled, Gas valve, DIX 13, Large torch head



T25MT

2-wheel cart with floor level cylinder loading.



P43MT

4-wheel undercarriage.



P45MT

4-wheel cart with an innovative pivoting cylinder plate.



HR43

Wired hand remote control.



HR45

Wireless hand remote control. Range up to 100 meters.



FR43

Wired foot pedal remote control.



FR45

Wireless foot pedal remote control. Range up to 100 meters.



Earth return cable 35 mm², 5 m

5-meter earth return cable with 35 mm² cross-sectional area. The earth return cable completes the electrical circuit for welding. The cable is connected from the welding power source to the workpiece.



Earth return cable 50 mm², 5 m

5-meter earth return cable with 50 mm² cross-sectional area. The earth return cable completes the electrical circuit for welding. The cable is connected from the welding power source to the workpiece.



Welding cable 5 m 35 mm²



Welding cable 5 m 50 mm²



Electrode holders



TECHNICAL SPECIFICATIONS

Master 315 power sources

Master 315 G

Master 315 G AU

Master 315 GM

Product code	M315G	M315GAU	M315GM
Connection voltage 3~ 50/60 Hz	380...460 V ± 10 %	380...460 V ± 10 %	220...230 V ± 10 % 380...460 V ± 10 %
Fuse	16A-C	16A-C	16A-C
Stick electrode sizes	1.6...7.0 mm	1.6...7.0 mm	1.6...7.0 mm
Welding range (MMA)	10...300 A	10...300 A 10...300 A (400 V) 10...260 A (220 V)	
Welding range (TIG)	3...300 A	3...300 A	3...300 A (400 V) 3...260 A (220 V)
Power factor at 100 % ED	0.89	0.89	0.89 (400 V) 0.95 (220 V)
Max. welding voltage	63...89 Vdc	63...89 Vdc	38...60 Vdc
Recommended generator power (min)	20 kVA	20 kVA	20 kVA
Open circuit voltage (average)	50 V	23 V	50 V
Operating temperature range	-20...+40 °C	-20...+40 °C	-20...+40 °C
External dimensions LxWxH	544 x 205 x 443 mm	544 x 205 x 443 mm	544 x 205 x 443 mm
Weight (no accessories)	21.4 kg	21.4 kg	22.6 kg
Degree of protection	IP23S	IP23S	IP23S
Standards	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1, AS 60974.1-2006	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1
EMC class	A	A	A
Rated maximum output at 40 °C (40 % TIG)	300 A / 22 V	300 A / 22 V	280 A / 21.2 V (400 V) 260 A / 20.4 V (220 V)
Rated maximum output at 40 °C (60 % TIG)	260 A / 20.4 V	260 A / 20.4 V	260 A / 20.4 V (400 V) 230 A / 19.2 V (220 V)
Rated maximum output at 40 °C (100 % TIG)	220 A / 18.8 V	220 A / 18.8 V	220 A / 18.8 V (400 V) 175 A / 17.0 V (220 V)
Rated maximum output at 40 °C (30 % MMA)			300 A / 32.0 V (400 V) 260 A / 30.4 V (220 V)
Rated maximum output at 40 °C (40 % MMA)	300 A / 32 V	300 A / 32 V	280 A / 31.2 V (400 V) 260 A / 30.4 V (220 V)
Rated maximum output at 40 °C (60 % MMA)	260 A / 30.4 V	260 A / 30.4 V	260 A / 30.4 V (400 V) 230 A / 29.2 V (220 V)
Rated maximum output at 40 °C (100 % MMA)	220 A / 28.8 V	220 A / 28.8 V	220 A / 28.8 V (400 V) 175 A / 27.0 V (220 V)
Efficiency at 100 % ED	0.87	0.87	0.87 (400 V) 0.85 (220 V)



ACCESSORIES

TX 223GVD13

Product code	TX223GVD134 (4m)
Standards	IEC 60974-7
Type of cooling	Gas
Type of connection (Current-gas)	DIX 13 mm
Load capacity @ 40 % (Argon)	220 A
Load capacity @ 100 % (Argon)	-
Type of connection (Control)	-
Type of connection (Coolant)	-
Remote control	No
Neck type	70° angle

T25MT

Description	Cart
Product code	T25MT

P43MT

Description	Trolley
Product code	P43MT

P45MT

Description	Transport unit
Product code	P45MT

HR43

Product code	HR43
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HR45

Description	Wireless remote
Product code	HR45

FR43

Product code	FR43
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FR45

Product code	FR45
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Earth return cable 35 mm², 5 m

Product code	6184311
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Earth return cable 50 mm², 5 m

Product code	6184511
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Welding cable 5 m 35 mm²

Product code	6184301
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Welding cable 5 m 50 mm²

Product code	6184501
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Electrode holders

Description	Electrode holders
Product code	Kemppi 300 – 9871021, Kemppi 400 – 9871031, Urania 5 – 9871041, Urania 6 – 9871051, Myking 200 – 9871060, Myking 450 – 9871070, Myking 600 – 9871080

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Kemppi is the design leader in the arc welding industry. We are committed to boosting the quality and productivity of welding by continuous development of the welding arc and by working for a greener and more 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. Headquartered in Lahti, Finland, Kemppi employs close to 800 professionals in 16 countries and has a revenue of 195 MEUR in 2022.

