

Master M

205 / 323

Welding power made portable



- ED 40 % @ 320 A for M 323 and @ 200 A for M 205
- Manual, Auto and Auto Pulse* (*M 205 only)
- MIG/MAG/TIG/MMA
- Weld Assist auto setting
- Lightweight and robust structure
- Self charging LED work lights
- 6 Channel memory
- Water cooler option
- Generator compatible
- Max Cool arc performance tool (M 323 only)
- Designed and manufactured in Finland
- 3 year warranty

Weld big, fast and easy

The Master M 205 and Master M 323 set new standards for industrial MIG welding power, performance and portability. With a compact, light-weight design that's easy to carry, you'll enjoy having a portable MIG welder that can be moved wherever you need it. If you're working in tight spaces, the colour LCD screen is bright and easy to read, and self-charging LED lights can be turned on to improve safety and conveniently light-up your work area, with or without the mains power connected.

The portable Master M 205 and Master M 323 are easy to use. Featuring Kemppi 'Weld Assist', the automatic parameter setting technique, you'll start welding quickly and accurately, first time, every time. Weld Assist is a simple solution that can also be used by welders with basic experience. Just select the material thickness, joint type, joint position and start welding.

The Master M 205 is a compact and portable industrial pulse MIG/MAG welder, with 200 amps of power at 40% duty cycle. Take on a wider range of materials with pulse welding and do your best work anywhere with the convenience of the 1-phase, dual voltage power supply. Save time and get to work quickly with 37 built-in MIG/MAG welding programs for Fe, Ss, AlMg5, AlSi5, CuSi3, CuAl8 filler materials. The Master M 205 comes with 17 programs for pulse MIG and 20 programs for 1-MIG.

The Master M 323 is a high-performance industrial MIG/MAG welding machine, that delivers 320 amps of power at a 40% duty cycle. Compact and portable, Master M 323 is ready for the big jobs anywhere on site. Find the right welding parameters quickly and save time with 28 welding programs for Fe, Ss, AlMg5, AlSi5, CuSi3, CuAl8, and FC-CrNiMo filler materials. Also included is complete high quality 'Root welding' and gap bridging, with MAX Cool performance software, delivered as standard.





VALUE FEATURES



PORTABLE WELDING POWER

lightweight and high performance.



HIGH-QUALITY WELDING RESULTS

with a wide range of supported materials and thicknesses.



INTUITIVE USER INTERFACE

including Weld Assist to support welders in any circumstances.

Expand your options



WELD ASSIST

Weld Assist is a guidance tool for faster setup. Simply select the joint type, welding position and material thickness and you're ready to weld. An excellent instructive and educational tool, Weld Assist parameters can also be adjusted manually for individual preference.



WORK LIGHTS

Improve work efficiency and safety with or without mains power connected. LED lighting is also included in the wire feed cabinet.



MASTER M COOLER

Keeps your welding gun cool and the arc conditions smooth and stable. The cooler tank is easy to clean and has integrated LED lighting, so you can monitor the cooling liquid level and make routine maintenance easy.



SAFE-TO-LIFT DESIGN

When using suitable lifting equipment Master M can be lifted by the handle, ensuring safe lifting and easy movement on site.



GAS GUARD

Gas guard is a standard feature on Master M 323, preventing welding if the shielding gas supply is interrupted or is not connected. Master M 323 also features a gas regulation valve as standard.



POWERLOG

Powerlog trigger logic allows three alternative power levels during welding. Use a standard gun trigger to select the power level required for the job.



AUTOMATIC CALIBRATION

Auto cable calibration measures the welding circuit resistance and calibrates the digital meters, ensuring that the arc voltage value displayed accurately measures the voltage of the welding arc. Critical for accurate WPS compliance.



Build the package to suit your application, including Gas or Water cooled packages, a range of welding guns and transport carts.



Internal cabinet lighting and external LED work lights supports the welders work, improving safety, efficiency and convenience in low light conditions.



Master M is the portable industrial welding power house to tackle any welding task quickly and efficiently.



Large, colour LCD display is easy to read and use. Back lit navigation buttons help guide the user, and all models feature display impact protection panels and clear, hinged, polycarbonate display covers.

Technical specifications Master M 205 / 323

FEATURE		MASTER M 205 GM	MASTER M 205 GM AU	MASTER M 323 GM
Mains connection voltage 1~ 50/60 Hz		110 - 130 V ±10 % 220 - 240 V ±10 %	110 - 130 V ±10 %; 220 - 240 V ±10 %	
Mains connection voltage 3~ 50/60 Hz				220 - 230 V ±10 % 380 - 460 V ±10 %
Output at +40 °C	40% [380 - 460 V] 40% [220 - 230 V] 30% [110 - 130 V]	N/A 200 A (MMA 175 A) 120 A (MMA 100 A)	N/A 200 A (MMA 175 A) 120 A (MMA 100 A)	320 A (MMA 300 A) 280 A (MMA 255 A) N/A
	60% [380 - 460 V] 60% [220 - 230 V] 60% [110 - 130 V]	N/A 170 A (MMA 150 A) 95 A (MMA 80 A)	N/A 170 A (MMA 150 A) 95 A (MMA 80 A)	250 A (MMA 220 A) 230 A (MMA 205 A) N/A
	100% [380 - 460 V] 100% [220 - 230 V] 100% [110 - 130 V]	N/A 140 A (MMA 120 A) 75 A (MMA 65 A)	N/A 140 A (MMA 120 A) 75 A (MMA 65 A)	200 A (MMA 175 A) 175 A (MMA 150 A) N/A
Welding current and voltage range	MIG [380 - 460 V] MIG [220 - 230 V] MIG [110 - 130 V]	N/A 15A/10V...200A/28V 15A/10V...120A/21V	N/A 15A/10V...200A/28V 15A/10V...120A/21V	15 A/10 V...320 A/34 V 15 A/10 V...280 A/32 V N/A
	MMA [380 - 460 V] MMA [220 - 230 V] MMA [110 - 130 V]	N/A 15A/10V...175A/31V 15A/10V...100A/24V	N/A 15A/10V...175A/31V 15A/10V...100A/24V	15 A/10 V...300 A/34 V 15 A/10 V...255 A/33 V N/A
	TIG [380 - 460 V] TIG [220 - 230 V] TIG [110 - 130 V]	N/A 15A/1V...200A/28V 15A/1V...120A/21V	N/A 15 A/1 V...200 A/28 V 15 A/1 V...120 A/21 V	15 A/1 V...320 A/34 V 15 A/1 V...280 A/33 V N/A
Gun connection		Euro	Euro	Euro
Wire feed mechanism		2-roll, single-motor	2-roll, single-motor	2-roll, single-motor
Diameter of feed rolls		32 mm	32 mm	32 mm
Filler wires	Fe	0.8 - 1.0 mm	0.8 - 1.0 mm	0.8 - 1.2 mm
	Ss	0.8 - 1.0 mm	0.8 - 1.0 mm	0.8 - 1.2 mm
	Mc/Fc	-	-	1.2 mm
	Al	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Fuse	Slow type	16 / 16 A	16 / 16 A	16 / 32 A
Wire feed speed		0.5 - 25 m/min	0.5 - 25 m/min	0,7...25 m/min
Wire spool weight (max)		5 kg	5 kg	5 kg
Wire spool diameter (max)		200 mm	200 mm	200 mm
Shielding gas pressure (max)		0.5 MPa	0.5 MPa	0.5 Mpa
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	520 x 250 x 379 mm	520 x 250 x 379 mm	520 x 250 x 379 mm
Weight without accessories		16,2 kg	16,2 kg	18,5 kg
Rated power at max current		6 kVA	6 kVA	13 kVA
Recommended generator power (min)	230V	15 kVA	15 kVA	20 kVA
Standards		IEC 60974-1, -10	IEC 60974-1, -10	IEC 60974-1, -10

Ordering information

MODEL DESCRIPTION	ORDERING CODES
Master M 205 GM	MSM205GM
Master M 205 GM AU	MSM205GMAU
Master M 323 GM	MSM323GM

ACCESSORIES	ORDERING CODES
Master Cooler 05M	MSMC05M
S10M Slider	S10M
T22M Transport carriage	T22M
T32A 2-wheel light trolley	T32A
Master M 323 Rotameter Kit	SP024820
Master M 205/323 Power Source Filter Kit	SP023492
Cabinet Heater Kit	SP021614
MMA Euro Connector 500A	SP801140

MODEL DESCRIPTION	SALES PACKAGE CODE
MASTER M 205, GX 303G HD 3,5M	P513GX3
MASTER M 205, GX 303G HD 5M	P514GX3
MASTER M 205, MSMC05 COOLER, GX 303W 3,5M	P515CGX3
MASTER M 205, MSMC05 COOLER, GX 303W 5M	P516CGX3
MASTER M 205, GX 305G HD 3,5M	P519GX3
MASTER M 205, GX 305G HD 5M	P520GX3
MASTER M 205, MSMC05 COOLER, GX 305W 3,5M	P521CGX3
MASTER M 205, MSMC05 COOLER, GX 305W 5M	P522CGX3
MASTER M 205 GM AU, GX 303G HD 3,5M	P513GX3AU
MASTER M 205 GM AU, GX 303G HD 5M	P514GX3AU
MASTER M 205 GM AU, MSMC05 COOLER, GX 303W 3,5M	P515CGX3AU
MASTER M 205 GM AU, MSMC05 COOLER, GX 303W 5M	P516CGX3AU
MASTER M 205 GM AU, GX 305G HD 3,5M	P519GX3AU
MASTER M 205 GM AU, GX 305G HD 5M	P520GX3AU
MASTER M 205 GM AU, MSMC05 COOLER, GX 305W 3,5M	P521CGX3AU
MASTER M 205 GM AU, MSMC05 COOLER, GX 305W 5M	P522CGX3AU
MASTER M 323 GM, GX 303G HD 3,5M	P517GX3
MASTER M 323 GM, GX 303G HD 5M	P518GX3
MASTER M 323 GM, MSMC05 COOLER, GX 303W 3,5M	P517CGX3
MASTER M 323 GM, MSMC05 COOLER, GX 303W 5M	P518CGX3
MASTER M 323 GM, GX 305G HD 3,5M	P523GX3
MASTER M 323 GM, GX 305G HD 5M	P524GX3
MASTER M 323 GM, MSMC05 COOLER, GX 305W 3,5M	P525CGX3
MASTER M 323 GM, MSMC05 COOLER, GX 305W 5M	P526CGX3

S10M Slider



T32A



T22M



