

MasterTig MLS 4000

DC EQUIPMENT FOR INDUSTRIAL APPLICATIONS





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MasterTig MLS DC range has become an industry standard for many users, offering precise welding performance and lightweight, portable design. A popular choice for welding professionals, includes a 400 A power source with 30% duty cycle at maximum output current.

Choose from four control panel options, allowing you to select exactly the parameter control that's right for your welding application.

MTL/MTX/MTM/MTZ control panel options contain basic and specialist functions required for quality DC TIG and MMA welding. Features can include: HF or contact ignition, pre-gas and post-gas control, torch switch latching 2T/4T, remote control and setup options, welding current upslope and downslope timer, MMA ignition pulse, MMA arc dynamics, pulse and synergic pulse TIG, spot timer, 4T log and memory channel function.



KEY BENEFITS



PRECISE AND RELIABLE IGNITION

Even at low currents and with
long torches or cable sets



MODULAR ADAPTABILITY

4 different control panel choice
means you build the machine
you need



EASY MOBILITY

Compact size and lightweight
means simple site movement

BENEFITS

- DC TIG and MMA power output
- Compact size ensures effortless mobility
- Excellent ignition quality, even with long TIG torches
- Quick pulse function increases welding speed and quality
- Suitable for use with power generators



PRODUCT OPTIONS



MasterTig MLS 4000

MasterTig MLS 4000 sets the standard for industrial TIG welding. Precise and refined welding quality for workshop or site use, MasterTig MLS 4000 has become an industry standard, offering the necessary performance in a lightweight and portable design. This welder is a 400 A version.



MasterTig MLS 4000VRD

MasterTig MLS 4000VRD is equipped with Voltage Reduction Device that will increase safety at work and suit certain markets. This welder offers the necessary performance in a lightweight and portable design. This welder is a 400 A version.

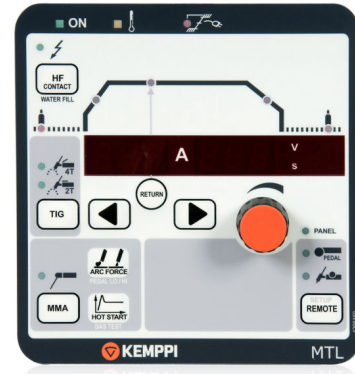


FEATURES



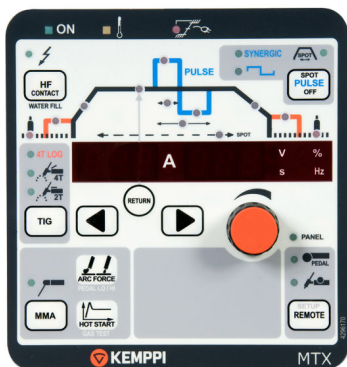
Control panel MTZ

MTZ panel is meant for piping etc. TIG / MMA applications. Features of this panel include torch switch latching 2T/4T, Pulse, synergic rapid pulse and spot TIG, HF contact, ignition control, remote control and setup function control option, welding current upslope and MINILOG.



Control panel MTL

MTL panel is for basic TIG / Stick (MMA) applications. Features of this panel include torch switch latching 2T/4T, HF contact ignition and remote and setup control option.



Control panel MTX

MTX panel is meant for piping etc. TIG / MMA applications. Features of this panel include torch switch latching 2T/4T, Pulse, synergic rapid pulse and spot TIG, HF contact, ignition control, remote control and setup function control option.



Control panel MTM

MTM panel is meant for piping and more sophisticated TIG / MMA applications. Features include torch switch latching 2T/4T, Pulse, synergic rapid pulse and spot TIG, HF contact, ignition control, remote control and setup function control option, welding current upslope, 10 memory channels and MINILOG.



ACCESSORIES



Mastercool 10

An optional cooling unit for Kemppi KempArc and Mastertig MLS 3000 and 4000.

Unit performs 1 kW of cooling power with a three liter tank that can be filled with a 20 % – 40 % ethanol/water mixture, or any other suitable antifreeze agent.



Flexlite TX

The Flexlite TX torches are designed for use with MasterTig welding equipment. The torch range includes several neck models, offering superb cooling performance and good access to challenging joint designs.



Earth return cable 5 m, 35 mm²



Electric plug 16 A



Gas flow gauge AR/clock



Remote control R10

Suitable for use with Kemppi MIG, TIG, and stick (MMA) welding equipment. Available in 5 m and 10 m.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.



Remote control R11F

Foot control pedal for Kemppi MasterTig MLS, MasterTig MLS ACDC and MinarcTig. Available in 5 m.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.



Remote control R11T

Suitable for use with Kemppi MasterTig MLS, Master MLS, and Master S welding equipment.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.



T110

Suitable for Master MLS 2500 & 3500, MasterTig MLS 2000, MasterTig MLS 3000 & 4000, MasterTig MLS 2300, 3000, 3003ACDC (no water cooling unit), and MasterTig LT 250. T110 is a 2-wheel transport unit that is recommended for smaller gas bottle sizes.



T130

Suitable for Master MLS 2500 & 3500, MasterTig MLS 2000, MasterTig MLS 3000 & 4000, MasterTig MLS 3000, 4000 & MasterCool 10, MasterTig MLS 2300, 3000, 3003ACDC, and MasterTig LT 250. The T130 is a 2-wheel transport unit suitable for mid-size and large gas bottle sizes.



TXR10

Optional on-torch remote control with a roller-type current control switch. Available for water and gas-cooled Flexlite torch models.



TXR20

Optional on-torch remote control with a rocker type current control switch. Available for water and gas-cooled Flexlite torch models.



TECHNICAL SPECIFICATIONS

MasterTig MLS 4000

Product code	6114400
Connection voltage 3~ 50/60 Hz	380–440V ±10%
Fuse (delayed)	16 A
Output (TIG) 30% ED	400 A/26.0 V
Output (TIG) 60% ED	320 A/22.8 V
Output (TIG) 100% ED	270 A/20.8 V
Output (MMA) 40% ED	350 A/34.0 V
Output (MMA) 60% ED	285 A/31.4 V
Output (MMA) 100% ED	220 A/28.8 V
Open circuit voltage	80 VDC
Stick electrode sizes	1.5...6.0 mm
Welding range (MMA)	10 A/20.5 V...350 A/34.0 V
Welding range (TIG)	5 A/10.0 V...400 A/26.0 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	500 × 180 × 390 mm
Weight (no accessories)	23 kg
Degree of protection	IP23S

MasterTig MLS 4000VRD

Product code	6114400VRD
Connection voltage 3~ 50/60 Hz	380–440V ±10%
Fuse (delayed)	16 A
Output (TIG) 30% ED	400 A/26.0 V
Output (TIG) 60% ED	320 A/22.8 V
Output (TIG) 100% ED	270 A/20.8 V
Output (MMA) 40% ED	350 A/34.0 V
Output (MMA) 60% ED	285 A/31.4 V
Output (MMA) 100% ED	220 A/28.8 V
Open circuit voltage	80 VDC
Stick electrode sizes	1.5...6.0 mm
Welding range (MMA)	10 A/20.5 V...350 A/34.0 V
Welding range (TIG)	5 A/10.0 V...400 A/26.0 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	500 × 180 × 390 mm
Weight (no accessories)	23 kg
Degree of protection	IP23S



ACCESSORIES

Mastercool 10

Product code	6122350
Connection voltage 1~ 50/60 Hz	400 V (-15...+20 %); 230 V (-15...+10 %)
Rated power	250 W (100 %)
Operating temperature range	-20...+40 °C
External dimensions LxWxH	500 × 180 × 260 mm
Weight (no accessories)	10 kg
Degree of protection	IP23S
Cooler tank volume	3 l
Cooling power	1.0 kW (100 %)

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Kemppi is the pioneering company within the welding industry. It is our role to develop solutions that make you win business. Headquartered in Lahti, Finland, Kemppi employs over 800 welding experts in 17 countries and has a revenue of more than 150 MEUR. Our offering includes welding solutions - intelligent equipment, welding management software and expert services - for both demanding industrial applications and ready-to-weld needs. Local expertise is available via our global partner network covering over 60 countries.

