

KEMPPPI K5 WELDING EQUIPMENT

# MasterTig MLS 3000

SIMPLY A BETTER FEEL AND PERFORMANCE





## MasterTig MLS 3000



### DC TIG WELDING EQUIPMENT FOR INDUSTRIAL APPLICATIONS

MasterTig MLS 3000 sets the standard for industrial TIG welding. Precise and refined welding quality for workshop or site use, MasterTig MLS 3000 has become an industry standard, offering the necessary performance in a lightweight and portable design. A popular choice for the welding professional, offering choice 300 A power source, delivering 30% duty cycle performance at the maximum stated output current. We also give you an option to choose from 4 different control panels (MTL/MTX/MTM/MTZ), allowing you to select exactly the parameter control that's right for your welding application.

### KEY APPLICATIONS



PROCESS PIPELINES



THIN SHEET  
FABRICATION



MECHANICAL  
ENGINEERING



## 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

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## BENEFITS

- DC TIG and Stick (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
- Modular water cooler option
- Remote current control options including hand, on torch and foot controls
- Control panel options (MTL/MTX/MTM/MTZ) suit different needs



## WHAT'S IN THE SYSTEM - EQUIPMENT



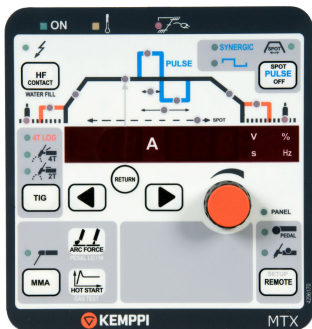
**MasterTig MLS 3000**

MasterTig MLS 3000 sets the standard for industrial TIG welding. Precise and refined welding quality for workshop or site use, MasterTig MLS 3000 has become an industry standard, offering the necessary performance in a lightweight and portable design. This welder is a 300 A version.



**MasterCool 10**

An optional cooling unit for Kempfi 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.



**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.



## ALTERNATIVE - EQUIPMENT AND SOFTWARE



### MasterTig MLS 3000VRD

MasterTig MLS 3000VRD 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 300 A version.



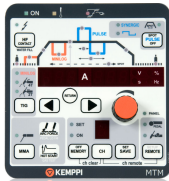
### MasterTig MLS 4000

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.



### 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.



### 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.



### TTC torches

The TTC range is designed for use with specific Kemppi TIG machines and available in both gas- and water-cooled models.



## TECHNICAL SPECIFICATIONS

### MasterTig MLS 3000

Product code	MasterTig 3000 MLS - 6114300 MasterTig 3000 MLS VRD - 6114300VRD MasterTig 4000 MLS - 6114400 MasterTig 4000 MLS VRD - 6114400VRD
Connection voltage 3~ 50/60 Hz	380-440V ±10%
Fuse (delayed)	10 A
Output (TIG) 30% ED	300 A/22.0 V
Output (TIG) 60% ED	230 A/19.0 V
Output (TIG) 100% ED	200 A/18 V
Output (MMA) 40% ED	250 A/30V
Output (MMA) 60% ED	205 A/28.2 V
Output (MMA) 100% ED	160 A/26.4 V
Open circuit voltage	80 VDC
Stick electrode sizes	1.5...5.0 mm
Welding range (MMA)	10 A/20.5 V...250 A/30.0 V
Welding range (TIG)	5 A/10.0 V...300 A/22.0 V
Operating temperature range	-20...+40 °C
External dimensions LxWxH	500 × 180 × 390 mm
Weight (no accessories)	22 kg
Degree of protection	IP23S

### 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 600 welding experts in 13 countries and has a revenue of more than 110 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.

