

MasterTig MLS 3000

SIMPLY A BETTER FEEL AND PERFORMANCE



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 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

KEY APPLICATIONS



PROCESS PIPELINES



THIN SHEET FABRICATION



GENERAL MECHANICAL ENGINEERING

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



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 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.



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 MINIOLOG.



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 MINIOLOG.



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 Kempfi 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 $\pm 10\%$
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
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
Stick electrode sizes	1.5...5.0 mm
Weight (no accessories)	22 kg
External dimensions LxWxH	500 × 180 × 390 mm
Degree of protection	IP23S
Operating temperature range	-20...+40 °C

Mastercool 10

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