

MASTERTIG MLS™



Benefits

- Portability
- Productivity and Quality
 - Quick pulse for minimum distortions and maximum welding speed
- Durability
- Flexibility
 - Panel options
- Power generator compatible

Main applications

- Installation and Outfitting
- Repair and Maintenance
- Thin sheet metal fabrication workshops
- Chemical and Process industry
- Power plant

Welding versatility for professionals – Mastertig MLS™ 2000, 3000, 3003, 4000 and 4003

The Mastertig MLS™ 2000, 3000 and 4000 offer outstanding TIG performance in the most demanding welding environments. Super-efficient and compact, the Mastertig MLS™ is designed for professional welders who expect the most from their welding equipment. The Mastertig MLS™ series builds on the success of Master MLS™ MMA welding machines. That means you benefit from Kempfi's strong track record in innovative welding technology. Machine range is combined with four innovative Kempfi MLS™ operation panels. All operation panels are in front of the machine and digital display makes it very easy to follow the adjusted parameters.

Reliability with outstanding TIG arc performance

The ICS™ (Isolated Cooling System) prevents dust and small metal particles from penetrating the machine's interior. The cooling air flows from the back of the machine forwards, towards the point being welded – this minimizes the intake of particle content. Optional low voltage OCV with Voltage Reduction Device available.

- Air-cooled: 200 (1ph), 300 and 400 A
- Liquid-cooled: 300 and 400 A

Cooling units MasterCool 10, 12

When using water-cooled TIG torches, the Mastertig MLS™ power sources can be supplemented with a Mastercool water unit.

The cooling liquid unit is connected below the power source. You can control the water cooling unit's functions from the power source panel.

Thanks to its simple structure, the unit is reliable and it requires little maintenance.



Technical Data

MasterTig MLS™		2000	3000	4000	3003	4003
Mains voltage	3~ 50/60 Hz	1~230 V -10%...+10%	400 V -15%...+20%	400 V -15%...+20%	230 V -15%...+10%	230 V -15%...+10%
Conn. cable/fuse delayed		3 x 2.5S - 3.3m / 16A	4 x 1.5S - 5m / 10A	4 x 2.5S - 5m / 16A	4 x 2.5S - 5m / 20A	4 x 6S - 5m / 32A
Load capacity 40 °C	30% ED TIG	200 A	300 A	400 A	300 A	400 A
	60% ED TIG	150 A	230 A	320 A	230 A	320 A
	100% ED TIG	130 A	200 A	270 A	200 A	270 A
Welding current	TIG	5...200 A	5...300 A	5...400 A	5...300 A	5...400 A
Stick electrodes	MMA	ø 1.5...4.0 mm	ø 1.5...5.0 mm	ø 1.5...6.0 mm	1.5...5.0	1.5...6.0
External dimensions	L x W x H	410 x 180 x 390 mm	500 x 180 x 390 mm	500 x 180 x 390 mm	500 x 180 x 390 mm	500 x 180 x 390 mm
Weight		15 kg	22 kg	23 kg	22 kg	23 kg

Operation panels

- Indication for power connection, overheating and supply voltage
- Digital display
- Local/Remote/Pedal/Torch control, HF/Contact ignition, 2/4T, MMA/TIG, Gas test
- Adjustments for Pre-/Post-gas, Up-slope/Down-slope, limits for pedal control, Arc force and Hot Start for MMA



MTL

- offers basic MMA and TIG welding features



MTX - Pulse-TIG and 4T LOG

- 4T LOG function with Search Arc for start and Tail Arc to prevent welding faults
- Synergic Pulse TIG - synergic control for Pulse-TIG
- Long Pulse/Quick Pulse - individual setting for pulse current, pulse ratio, frequency and the base current level
- Spot welding



MTM - MINILOG and memory

- Functions as in MTX (except 4T LOG)
- A memory block for storing adjusted values.
- MINILOG to control the weld pool from the torch switch by periodically lowering the welding current below the actual level needed for welding.



MTZ like MTX but with MINILOG

- MTZ operation panel includes Minilog-function, otherwise it is similar to MTX panel
- Spot Welding
- Pulse-TIG: Long Pulse, Quick Pulse and Synergic Pulse
- MINILOG

Order Information

Power sources	Mastertig 2000 MLS™	6112200	Transport units	T 100	6185250
	Mastertig 3000 MLS™	6114300		T130	6185222
	Mastertig 4000 MLS™	6114400		T200	6185258
	Mastertig 3003 MLS™	6112300	Remote control units	R 10, 10 m	618540901
	Mastertig 4003 MLS™	6112400		R 11F foot pedal	6185407
Cooling units	Mastercool 10	6122350		R 11T, wireless	6185442
	Mastercool 12	6122360	R 10, 5 m	6185409	
Operation panels	MTL	6116000	Adapters	for TTK-torches, gas-cooled	3148720
	MTX	6116005		for TTK-torches, water-cooled	3148720 + 3148710
	MTM	6116010	Cables	Remote control cable,10 m (R 10)	6185481
	MTZ	6116015		Welding and earth cables subject to an enquiry	
Torches	Kemppi TTC, page 47				