

# Master MLS™

## Master MLS™ - Perfect weld at site

Master MLS™ is a product range of efficient MMA welding machines. Lightweight and portable MLS™ machines are constructed to be used on work sites and in extreme conditions. Small size of MLS™ makes it possible to access even narrow places.

### Master MLS™ range: 160 A (1ph), 250 A and 350 A

Master MLS™ 250 A and 350 A welding machines are available also as 230 V 3ph models. The basic MLS™ machine can be equipped with operation panel (MEL or MEX) so that the operator may adjust the welding characteristics suitable for each type of work.



### Main applications

- Installation welding
- Welding work at site
- Repair and maintenance welding
- Welding in shipbuilding and off-shore industry
- Pipe welding

- **Durable and reliable machine for outdoor conditions**  
- shielded knobs, durable casing, ICS™
- **Energy saving**  
- high efficiency and fan on demand
- **Excellent Arc Characteristics with all types of MMA electrodes even with long cables**

The ICS™ (Isolated Cooling System) prevents dust and small metal particles from penetrating the machine's interior. Cooling air flows from the back of the machine forward – towards the point being welded – this minimizes the intake of particle content. Shielded knobs and durable casing makes the machine excellent for site jobs.

Master machines are flexible and meet the needs of on site jobs demanding TIG with contact ignition (Lift Arc). Total adjustability makes it possible to fine tune the arc characteristics to each electrode type - Arc force, Hot start. Easy to find the correct welding values – digital displays, user friendly panels, advanced electrode type selection. Master MLS™ machines are also generator compatible.



**Transport units  
for Master MLS™:**  
T 100  
T 110  
T 130

# Technical data

## Master MLS™ 1600

Connection voltage 1~ 50/60 Hz	230V -10% ...+10%
Rated power	
35%	160 A / 7,1 kVA
60%	140 A / 5,8 kVA
100%	120 A / 4,8 kVA
Welding current	10A / 20,5V ... 160A/26,4V
Fuse delyed	16 A
Electorode sizes ø mm	1,5 ... 4,0
Dimensions L x W x H mm	410 x 180 x 390
Weight kg	14

## Master MLS™ 2500

Connection voltage	3~400V -15%...+20%
Rated power	
40%	250 A / 9 kVA
60%	205 A / 7 kVA
100%	160 A / 5 kVA
Welding current	10A / 20,5V ... 250A/30V
Fuse delyed	10 A
Electorode sizes ø mm	1,5 ... 5,0
Dimensions L x W x H mm	500 x 180 x 390
Weight kg	20

## Master MLS™ 3500

Connection voltage	3~400V -15%...+20%
Rated power	
40%	350 A / 15 kVA
60%	285 A / 11.3 kVA
100%	220 A / 8 kVA
Welding current	10A / 20,5V ... 350A/34V
Fuse delyed	16 A
Electorode sizes ø mm	1,5 ... 6,0
Dimensions L x W x H mm	500 x 180 x 390
Weight kg	21

## Master MLS™ 2503

Connection voltage	3~230V -15% ...+15%
Rated power	
40%	250 A / 9 kVA
60%	205 A / 7 kVA
100%	160 A / 5 kVA
Welding current	10A / 20,5V ... 250A/30V
Fuse delyed	20 A
Electorode sizes ø mm	1,5 ... 5,0
Dimensions L x W x H mm	500 x 180 x 390
Weight kg	20

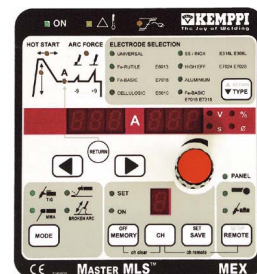
## Master MLS™ 3503

Connection voltage	3~230V -15% ...+15%
Rated power	
40%	350 A / 15 kVA
60%	285 A / 11.3 kVA
100%	220 A / 8 kVA
Welding current	10A / 20,5V ...350A/34V
Fuse delyed	32 A
Electorode sizes ø mm	1,5 ... 6,0
Dimensions L x W x H mm	500 x 180 x 390
Weight kg	21

## Master MLS™ Operation Panels



MEL for basic MMA applications



MEX Advanced electrode type selection, memory

Basic features in both panels: Digital display, Local/Remote, MMA/TIG, Arc force, Hot start.

Advanced Electrode type selection - control of welding values based on electrode type selection.

## Order information

Master 1600 MLS™	6102160	Remote control units	
Master 2500 MLS™	6104250	R 10, 5m	6185409
Master 2503 MLS™	6102250	R 10, 10m	618540901
Master 3500 MLS™	6104350	R 11F, Pedal control	6185407
Master 3503 MLS™	6102350	R 11T, Wireless remote	6185442

Operation panels	Transport units	
MEL	6106000	T 100 6185250
MEX	6106010	T 110 6185251
		T 130 6185222

Accessory	
TIG welding torches (with valve) TTC 220GV 4m	627022304

