

MASTERTIG MLS™ 2300 ACDC



MasterTig MLS™ - More power for aluminium welding

More power from a 1 phase supply - This digitally controlled power source incorporates PFC techniques which enable an increase in the output power in comparison with the supply current. With a 16 A fuse the machine gives an amazing 230 A welding current at 40 % duty cycle and in continuous use of 100 %, the current is 170 A. You can even weld heavy, 5 mm thick aluminium sheet with this 1 phase machine, where normally 3 phase machine would be needed.

MasterTig MLS™ 2300 ACDC is powerful, but very small and light. Weighing only 15 kg, the ACDC MLS™ is one of the best power and weight ratios available. Modern design techniques and materials are used in structure, electronics and electro mechanics, delivering a stylish and refined package.

The function control panels follow the full logic principles of DC MLS™ machines, giving unprecedented user opportunities and operable flexibility. The two new ACDC panels (ACS and ACX) have all the features that a TIG welder could possibly need, as well as enabling user customization.



Benefits

- Flexibility
 - Panel options
- Easy to move, light to carry
- Welds all materials
- Power generator compatible
- User personalization
- Productivity and Quality
 - MIX TIG special current mode - thin to thick joining made easy

Main applications

- Installations and Outfitting
- Repair and Maintenance
- Chemical and Process industry
- Shipbuilding and Offshore

Technical Data

MasterTig MLS™ 2300 ACDC

Mains voltage	1~ 50/60 Hz	230 V -15%...+15%
Conn. cable, fuse delayed		3 x 2.5 mm ² -5-3.3 m / 16 A
Load capacity 40 °C	40 % TIG	5.7 kVA / 230 A
	60 % TIG	4.8 kVA / 200 A
	100 % TIG	3.9 kVA / 170 A
	40 % MMA	6.0 kVA / 180 A
	60 % MMA	4.8 kVA / 150 A
	100 % MMA	3.7 kVA / 120 A
	Welding range	TIG
MMA		10 A / 20.5 V ...180 A / 27.2 V
Max. welding voltage		32 V / 180 A (MMA)
Open circuit voltage		58 V DC
Power ratio at max. current		0.99
Stick electrodes	MMA	ø 1.5...4.0 mm
External dimensions	L x W x H	430 x 180 x 390 mm
Weight		15 kg

Cooling unit **Mastercool 20**

Connection voltage		230 V -15 %...+15 %
Connection capacity	100% ED	50 W
Cooling power		1.0 kW
Maximum pressure		4,0 bar
Recom. cooling liquid		20 % - 40 % ethanol/water
Tank volume		3 l
External dimensions	L x W x H	500 x 180 x 260 mm
Weight		8 kg

Order Information

Power source	Mastertig MLS™ 2300 ACDC	6162300
	Mastertig MLS™ 2300 ACDC VRD AU	6162300AU
Panels	ACS	6162805
	ACX	6162804
Welding cable	16 mm ² 5 m	6184103
	25 mm ² 5 m	6184201
	25 mm ² 10 m	6184202
	35 mm ² 5 m	6184301
Earth cable	16 mm ² 5 m	6184113
	25 mm ² 5 m	6184211
	25 mm ² 10 m	6184212
	35 mm ² 5 m	6184311
Gas flow meter	AR/clock	6265136
Cooling unit	Mastercool 20	6162900

Panels for Mastertig MLS™ 2300 ACDC

ACS panel functions:

- Currents MMA: AC, DC-, DC+ and TIG: AC, MIX, DC-, DC+
- Pregas and Post gas timer
- Hot Start current, current upslope and down slope time
- Current and voltage display, other welding parameters display
- QUICK SETUP
- 2T and 4T (latch function)
- Spark and contact ignition (TIG)
- Choosing remote control and setting the range of adjustment: LO/HI
- Filling function for water-cooled torch (WATER FILL)
- Test function for gas (GAS TEST)



ACX panel functions:

- ACX has all ACS functions as standard plus these
- 4T-LOG and MINILOG switch functions
 - Start, Minilog, End current
 - Spot timer
 - Long pulse
 - Synergic quick pulse
 - "MEMORY" 10 channel memory function



Torches	TTC 160, 4 m	627016004
	TTC 160, 8 m	627016008
	TTC 160, 16 m	627016016
	TTC 220, 4 m	627022004
	TTC 220, 8 m	627022008
	TTC 220, 16 m	627022016
	TTC 200W, 4 m	627020504
	TTC 200W, 8 m	627020508
	TTC 200W, 16 m	627020516
	TTC 250W, 4 m	627025504
TTC 250W, 8 m	627025508	
TTC 250W, 16 m	627025516	
Remote control	RTC 10	6185477
	RTC 20	6185478
	R 10	6185409
	R11F	6185407
Transport unit	T130	6185222
	T110	6185251