

# MasterTig MLS 2300-, 3003ACDC

MLS control for the finest TIG welding quality



Energy efficient



- TIG and MMA process eg: DC-/DC+/AC/MIX TIG
- Power cost efficient, compact dimensions
- MasterCool option for high duty applications
- MicroTack for fast, low heat tack welding

## Applications

- Metal fabrication workshops
- Shipyards and offshore industry
- Chemical and process industry
- Mechanised welding

## Make demanding work easy

**MasterTig MLS ACDC offers TIG welding professionals the necessary control** to meet their exacting needs. Whatever the application, enjoy the performance. Model choice includes a 230 A version with 1-phase 230 V power supply, and 300 A version with 3-phase 230/460 V power supply.

**MasterTig MLS ACDC is a precise aluminium welding specialist** that suits all welded materials. Modular design allows you to build the package that best suits your needs.

**Choose from either ACS or ACX control panels** allowing fast adjustment of base parameters including: pre and post gas time control, AC arc frequency and upslope and downslope control. ACS provides all necessary controls for DC, AC and MIX TIG welding with either HF or contact ignition. ACX offers additional functions including MicroTack, memory channels and pulsed welding function.

This model is compatible with TTC torches only, please see the full available range of TIG torches on pages 86 – 89. Available remote control models are on page 120.

## Technical specifications

MasterTig MLS		2300ACDC	3003ACDC
Connection voltage	50/60 Hz	1~, 230 V (±15 %)	3~, 230 V (-10 %) ... 460 V (+10 %)
Rated power at 100 % ED	TIG	5.7 kVA	9.2 kVA
	MMA	6.0 kVA	10 kVA
Fuse recommendation (slow)		15 A	20/16 A
Output 40 °C	40 % ED TIG	230 A/19.2 V	300 A/22 V
	60 % ED TIG	200 A/18 V	230 A/19.2 V
	100 % ED TIG	170 A/16.8 V	190 A/17.6 V
	40 % ED MMA	180 A/27.2 V	250 A (230 V AC 30 %)/30 V
60 % ED MMA		150 A/26 V	230 A/29.2 V
	100 % ED MMA	120 A/24.8 V	190 A/27.6 V
Welding range	TIG	3 A/10 V–230 A/19.2 V	3 A/10.0 V–300 A/22 V
	MMA	10 A/20.5 V/180 A/27.2 V	10 A/20.5 V–250 A/30 V
Open circuit voltage		58 V DC	58 V DC
	AU / VRD	20 V DC/VRD	-
Power factor at 100% ED		0.99	0.95
Efficiency at 100% ED		82 %	81 %
Stick electrode, MMA	∅	1.5...4.0 mm	1.5...5.0 mm
External dimensions	L x W x H	430 x 180 x 390 mm	500 x 180 x 390 mm
Weight		15 kg	25 kg

Cooling unit		MasterCool 20	MasterCool 30
Connection voltage		230 V (±15 %)	24 V DC
Rated power at 100 % ED		50 W	50 W
Cooling power		1.0 kW	1.0 kW
Maximum pressure		400 kPa	400 kPa
Recommended cooling liquid		20...40 % ethanol/water	20...40 % ethanol/water
Tank volume		3 l	3 l
External dimensions	L x W x H	500 x 180 x 260 mm	500 x 180 x 260 mm
Weight		8 kg	8 kg

## Ordering information

Power Sources	
MasterTig MLS 2300 ACDC	6162300
MasterTig MLS 3003 ACDC	6163003
MasterTig MLS 2300 ACDC VRD AU	6162300AU
MasterTig MLS 3003 ACDC VRD	6163003VRD (Voltage Reduction Device)
Cooling units	
MasterCool 20 (MasterTig MLS ACDC 2300)	6162900
MasterCool 30 (MasterTig MLS ACDC 3003)	6163900
Control panels	
ACS	6162805
ACX	6162804

## Options



ACS



ACX

All MasterTig MLS ACDC welding devices can be equipped with an ACX or ACS control panel introducing numerous additional features that make welding easier and more efficient.



A stable arc ensures a smooth weld, ensuring good mechanical properties for the joint.



MicroTack welding is an easy, fast and precise way of improving quality and productivity for taking and setting tasks. Extremely effective with very thin materials.