



WALTER



ATOM 160 TIG PROFESSIONAL MMA/TIG

INFO FLASH.



WALTER ATOM 160 MMA TIG – A tool that will reliably finish any project in all working conditions.

A portable monophase IGBT MMA/TIG inverter. Modern design, easy set-up. Durability at extremely harsh working conditions. A very high duty cycle–120A/100%. Works on power generators. **Uninterrupted MMA welding in conditions of poor power supply network (140Vac do 265Vac).** Welding with coated fluxed rutile and basic electrodes. HOT-START and ANTI-STICK functions embedded. A stable welding arc, without arc interruption, electrode overmelting, or electrode sticking. Possibility of switching to TIG welding process. High quality of installed components.

- Suitable for work on generator -- YES.
- Hot-Start Function - Automaticaly 140% increasing current during first 0.3 sec.
- Anti-Stick Function - Automatic shut down and delayed start-up
- Arc-Force - Automatic increasing up to 140% of current in short arc condition.
- Minimal generator for TIG welding -- 6kVA.
- Minimal generator for MMA welding -- 6kVA.
- Maximum current 160A(TIG). 40%/40°C, 20%/50°C.
- Maximum basic electrode diameter 3.25 -- at 120A /100%.
- Maximum basic electrode diameter 4.00 -- at 160A/40%.
- MMA applied in metal fabrication -- YES.
- MMA applied in pressure pipes welding -- YES.
- TIG applied in pressure pipes welding -- YES. TIG DC -- 120A/100%/40°C
- The minimal supply input voltage while working in TIG is 100Vac.
- The output current while working in TIG at 100Vac is -- 110A.
- Maximum supply input voltage -- 275Vac.
- Maximum stand by voltage -- 300Vac.

TECH.

ATOM160TIG	Unit	MMA/TIG
Input Voltage	1ph	165V - 265V
Input Power	kW	6
Fuse 220/230	T/A	25
Electrodes	Ø	1 to 4 mm
Welding Current TIG	A	1 - 160A
Welding Current MMA		10 - 160A
Arc Voltage	V	11-28V
Open Circuit Voltage:	V	90V
Cables	m	16mm/2x3m
Panel contacts	mm	10/25
Duty Cycle at40°C	%	160/160A/40%
TIG/MMA		140/140A/60%
		120/120A/100%
Dimensions	mm	95x165x270
Mass	kg	5.0

APPLICATION:

Pipelines of medium sizes, metal constructions, full day work under extremely low or high temperatures. Professional precision while welding with low currents. A stable welding arc even at 10Amps. Steel plates, regular and thin-walled steel pipes, profiles up to 10mm. Decorative constructions, fences and postaments. Fabrication and reparation. Construction, food, military industries. Quality welds without slag input. A perfect weld and stable arc without sticking when welding with basic and rutile electrodes. Excellent weld penetration, and long continuous weld fillings. Easy application of aluminum and inox electrodes. Can be switched to TIG welding - arc ignition by lift-TIG.

DELIVERED IN PACKAGE WITH WALTER ATOM 160 TIG

- Electrode holder 200A with cable for MMA welding (3m, 25mm²).
- Earth clamp 200A with cable (3m, 25mm²).

NOT INCLUDED IN BASIC PACKAGE:

Additional charges apply.

- TIG TORCH SR26 – 4m. Air Cooled. 140A/100%.
- Water pump for TIG torch.
- Foot pedal remote control.
- Handheld remote control.
- Spare parts set.

WALTER ATOM 160 TIG is NOT designed for MMA welding in applications with Cellulosic electrodes. This primarily relates to the welding of boiler, gas and other pressure pipes. If this kind of welding required in your business, the CELL model is WALTER's preferential proposal.

GALLERY.



GALLERY:



State of the Art Inverter Welders: Designed and Manufactured in Serbia

THE USE AND LIMITATIONS.

MAINS POWER AND GENERATORS:

WALTER ATOM 160 TIG is designed to be able to work even in very poor conditions of the power supply. **Nominal voltage is 1x230Vac.**

The power source will successfully weld in DC TIG welding even at a voltage of about 100Vac in the network. Maximum output current of the machines will in this case be approximately 140A. At very low voltages in the network, it would be more difficult to weld in MMA mode. However, the boundaries in which these difficulties might happen, take place in circumstances which are considered emergency operation for power grid and power supply would already be cut off by the power grid companies. In any case, the machine will not be damaged in any low voltage network. Too high a voltage can cause malfunction of the appliance if its value is permanently 300Vac or higher or in the short-term over-voltages of about 330Vac.

WALTER ATOM 160 TIG is designed to operate on the diesel generator and welding characteristics will be the same as when running on the public network if the voltage generator is within the declared value (230Vac +/- 15%).

Recommendation: Generator rated 8kVA or higher. The voltage on generators of poor quality can exceed the value of 330Vac and may cause malfunction of the appliance.

Operation on a poor network or a poor generator can have a strong negative impact on the MMA welding procedure. The quality of TIG welding in such conditions will not be reduced, but it is possible that the welder will not be able to give out the maximum rated current.

In any case, it will not be damaged if the power supply voltage in the range of 110Vac to 275Vac.

In the case of connecting the permanent voltage of over 300Vac, the welder power source will be damaged.

ENVIRONMENT TEMPERATURE:

The machine is designed for normal operation within the industrial temperature range (-20 ° C to + 40 ° C).

If the ambient temperature exceeds over the nominal value (+ 40 ° C), it may cause a decrease in operational performance of the welder power source.

If the operating temperature is below -20 ° C, the device will not start working.

LIMITED GLOBAL WARRANTY.

WALTER ATOM 160 TIG (PRODUCT) is designed and tested for professional applications and heavy duty environment. This machine is world wide covered with manufacturers limited warranty for a period of two (2) years from the date of purchase.

WALTER LIMITED WARRANTY AGREEMENT

1. Product Limited Warranty - replacement parts and technical support.

Walter warrants that its Products will be free from defects in materials and workmanship for the Limited Warranty Period. During the Limited Warranty Period, Walter will provide replacement parts and technical support necessary to repair the Product with no additional fees. Transportation costs from the nearest Walter Service Office shall be covered by Walter during the first Year of Limited Warranty Period. Replacement parts will be new or serviceably used, comparable in function and performance to the original part and warranted for the remainder of the original warranty period or, if longer, 90 days after they are shipped to You.

2. Hardware Technical Support.

The scope of technical support consists of helping You diagnose and resolve problems with defects in Products covered by this Agreement, and reinstalling the factory-installed hardware and software to restore it to the original factory configuration. Walter may provide technical support via on-line, telephone and other methods. Walter may change the means through which it provides technical support at any time without notice to You.

During the Limited Warranty Period, Walter will provide free of charge Product technical support. After the expiration of the Limited Warranty Period, hardware technical support is available for a fee. The fee will be charged to your credit card when You call technical support. Please note that when contacting Walter via telephone, long distance and other charges may apply, depending upon your calling area.

3. Software Support for Operating System Software. Walter is the manufacturer of the incorporated embeded software and does guarantee that software and operating systems will be free from errors, either in isolation or in combination with hardware. For your Product, Walter will assist the customer with:

(i) installation of any operating system software purchased from Walter; (ii) configuration of the operating system software;(iii) setup of the operating system software; (iv) troubleshooting issues associated with the operating system software.

LIMITED GLOBAL WARRANTY - CONCLUSION.

4. Limitations and Exclusions

The following conditions are not covered under the terms of warranty:

Defects due connection to incorrect or faulty mains supply voltage, mechanical damages and transport or storage damage, fire or damage due to natural causes, lightning or flooding.

The warranty does NOT cover:

Expenses for troubleshooting, direct or indirect travelling costs except described in chapters 1, 2 and 3 of this agreement.

Welding cables, torches and their consumable parts are not covered under the warranty.

Direct or indirect damage as well as any loss of earnings are not covered under the warranty.

The Manufacturer shall in no event be responsible for any third party expenses or any indirect or consequential expenses/costs.

Manufacturer is not responsible for incidental, consequential, punitive or liquidated damages.

The warranty is void if modifications are made to the product without the prior written approval of the Manufacturer.

To the fullest extent allowed by law, the Manufacturer will have no other obligation whatsoever with regard to the products except as stated in this limited warranty.

Warranty Length/Type 2 Year/Limited: Parts & Labor, Mail In or Carry In.

Hardware Technical Support - 2 Year / Software Support - 90 days from the date of purchase.

Service Website

<http://www.wweld.com/support>

Service Phone Number

00 381 11 2456064

00 381 64 6418143

WhatsApp Support

00 381 64 6418144

Service Address:

Cara Nikolaja Drugog 22,

Belgrade, Serbia (Europe)
