

# *weldtech*

# WT 100C

## WELD BEAD CLEANER

WORKSHOP SERIES



## OPERATING INSTRUCTIONS

### IMPORTANT:

BEFORE USING THE WT100C WELD CLEANER, READ CONTENTS OF THIS MANUAL THOROUGHLY. DO NOT DISPOSE OF THIS MANUAL AND STORE WITH THE MACHINE FOR ITS LIFETIME. THIS MACHINE SOLEY FOR USE IN WELDING OPERATIONS.

[www.weldtech.net.nz](http://www.weldtech.net.nz)



## **We Appreciate Your Business!**

Congratulations on your new Weldtech product!

The Weldtech range from Euroquip uses latest technology design and engineering to produce welding products that combine market leading value and features with durability. Designed for discerning operators who seek professional results and product quality without the price tag of a full professional setup. Design emphasis is placed on simple, functional design and operation. Weldtech product is subject to stringent quality control and designed and manufactured to NZ & Australian standards.

Common use of Weldtech products include:

- Light Engineering
- Automotive
- Home/Hobby Engineering
- Farming
- Maintenance & Repairs

For industrial welding solutions, check out the Strata range from Euroquip:

**[www.strata.co.nz](http://www.strata.co.nz)**

Euroquip is a market leading provider of innovative power equipment solutions to a wide range of industries across New Zealand and Australia. Key product categories are; welding equipment, air compressors, power generators and cleaning equipment.

Euroquip's slogan is 'empowering industries', find out more about the advantage Euroquip brings at **[www.euroquip.co.nz](http://www.euroquip.co.nz)**.

Providing exceptional product support is a key component of Euroquip's market leading customer advantage focus. As part of this program, it is required for all products to be registered with Euroquip to qualify for product support. Products not registered with Euroquip are supported by a base 12 month warranty only. Spare parts and technical support will not be available for an unregistered product outside of this base warranty period. If a Euroquip dealer has not already registered your product, please register it online at [www.euroquip.co.nz](http://www.euroquip.co.nz). To request a physical registration form, please contact Euroquip customer service on 0800 387 678.

## Contents

WT100C	4
Safety precautions	5
Summary	5
Description of technical specifications	6
Description of controls	7
Installation and operation	8
Notice	9
Trouble shooting	9
Care & Maintenance	10
Accessories & Consumables	10
Knowledge & Resources	10
Warranty	11

# weldtech

## WT100C

The WT100C is ideal for cleaning and polishing weld beads, quickly and easily. This weld bead cleaner will save you time and money and removes the possibility of corrosion. When clean welds are essential for safety or aesthetics, such as stainless-steel decoration, kitchenware, chemical machinery, food machinery and other stainless-steel products, look no further than the Weldtech WT100C.



WORKSHOP SERIES

- Increases efficiency and reduces cleaning time
- Electro-Chemical reaction does not alter the surface finish
- Ergonomic and easy to use cleaning gun prevents short circuits for improved safety and reliability
- Built tough with safety features to prevent overheating and short circuits
- Automatic cleaning fluid supply for improved efficiencies
- Lightweight with carry handle for great portability



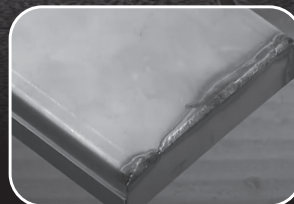
**INCLUDES**  
Weld Cleaning Torch w/  
spare brush head,  
Earth Lead & Clamp,  
Cleaning Pad

### Two Optional Fluid Types Available:

- Eco-friendly Cleaning Powder
- Eco-Friendly Stainless Steel Polishing Powder

### Specifications

Supply Power	230V 50Hz / 10A Single Phase
Input Current Range	3A – 6A
Peak Voltage	50V
Duty Cycle	100% @10A, 80% @18A
Protection Class	IP21S
Fluid Capacity	2L
Weight	19kg
Dimensions (L x W x H)	500 x 400 x 420 mm



Before Weld Cleaner



After Weld Cleaner

**18** MONTH\*  
TRADE  
WARRANTY  
with product registration

[www.weldtech.net.nz](http://www.weldtech.net.nz)

## 1. Safety precautions

**CLEANING OPERATION CAN BE HARMFUL TO YOURSELF AND OTHERS.** The user must therefore be educated against the hazards, summarized below, deriving from cleaning operations. For more detailed information, read the manual.

**ELECTRIC SHOCK** - May be fatal.

Install and earth the machine according to the applicable regulations.

Do not touch live electrical parts or electrodes with bare skin, gloves or wet clothing.

Isolate yourselves from both the earth and the work piece.

Make sure your working position is safe.

Don't operate the machine, if the machine without cover.

Cut off the power supply, before repair the machine.

Always replace any damaged part of machine with original material.

**FUMES AND GASES** - May be hazardous to your health.

Keep your head away from fumes.

Work in the presence of adequate ventilation, and use ventilators around the arc to prevent gases from forming in the work area.

**RISK OF FIRE AND BURNS** Sparks (sprays) may cause fires and burn the skin; you should therefore make sure there are no flammable materials in the area, and wear appropriate protective garments.

**PACEMAKERS** The magnetic fields created by high currents may affect the operation of pacemakers.

Wearers of vital electronic equipment (i.e. pacemakers) should consult their physician before beginning any arc welding, cutting, gouging or spot welding operations.

**EXPLOSIONS** Do not weld in the vicinity of containers under pressure, or in the presence of explosive dust, gases or fumes. All cylinders and pressure regulators used in welding operations should be handled with care.

**ELECTROMAGNETIC COMPATIBILITY** This machine is manufactured in compliance with the Instructions contained in the harmonized standard. and must be used solely for professional purposes in an industrial environment. There may be potential difficulties in ensuring electromagnetic compatibility in non- industrial environments.

**IN CASE OF MALFUNCTIONS, REQUEST ASSISTANCE FROM QUALIFIED PERSONNEL.**

## 2. Summary

The machine is used for cleaning the weld bead of TIG or MIG welding. The machine is with patent water feeding unit. When trigger on the gun is pressed, it will spray cleaning fluid. Wipe the surface of work piece with the brush, for the discolorations to be cleaned. After cleaning, the work piece is bright as new and it will not damage the surface. The special cleaning is faster and less costly than pickling and polishing, and it will not rust.

The advantage for weld bead cleaner:


- 1) No need to polish, no dust, and reduced work intensity.
- 2) The machine comes with four protections. They are over output current protection, over input current protection, output current short circuit protection, power source over heat protection.
- 3) Patent water feed unit: It can supply cleaning fluid automatically. It will improve work efficiency by up to 50%.
- 4) Patent cleaning gun: It can prevent short circuit and burns. It is safe and reliable, increasing service life for up to 50%.

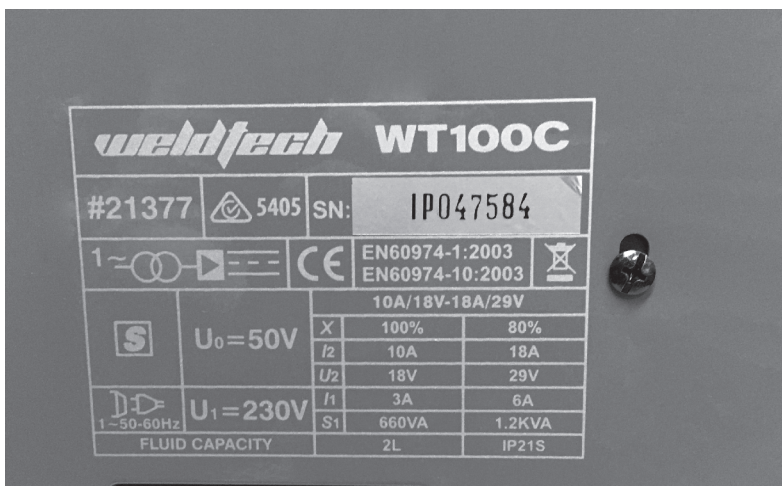


### 3. Description of technical specifications

The contents are just for your reference - Please check contents to ensure you have all items in box. The actual products may be subject to change.

- WT100C
- Weld Cleaning Torch
- Earth Lead & Clamp
- Cleaning Pad

<b>MODEL</b>		<b>SN:</b>	
C€		EN60974-1:2003 EN60974-10:2003	
<b>S</b>	$U_0 = 50V$	10A/18V-18A/29V	
		X	100%      80%
		$I_2$	10A      18A
		$U_2$	18V      29V
 1- 50/60Hz	$U_1 = 220V$	$I_1$	3A      6A
		$S_1$	660V A      1.2KVA
		Fluid Capacity      2L	
IP21S			



**MODEL:** The model of the machine

**SN:** Machine Serial Number which must appear on requests or inquiries concerning the machine.

**CE ,EN ,ISO:** International standards

**$U_0$  :** Secondary no-load voltage (peak value).

**$U_1$  :**Rated supply voltage

**$U_2$  :** Secondary voltage with welding current 12

**$I_1$  :** Input current

**$I_2$  :** Output welding current

**$S_1$  ,** Power at normal duty cycle

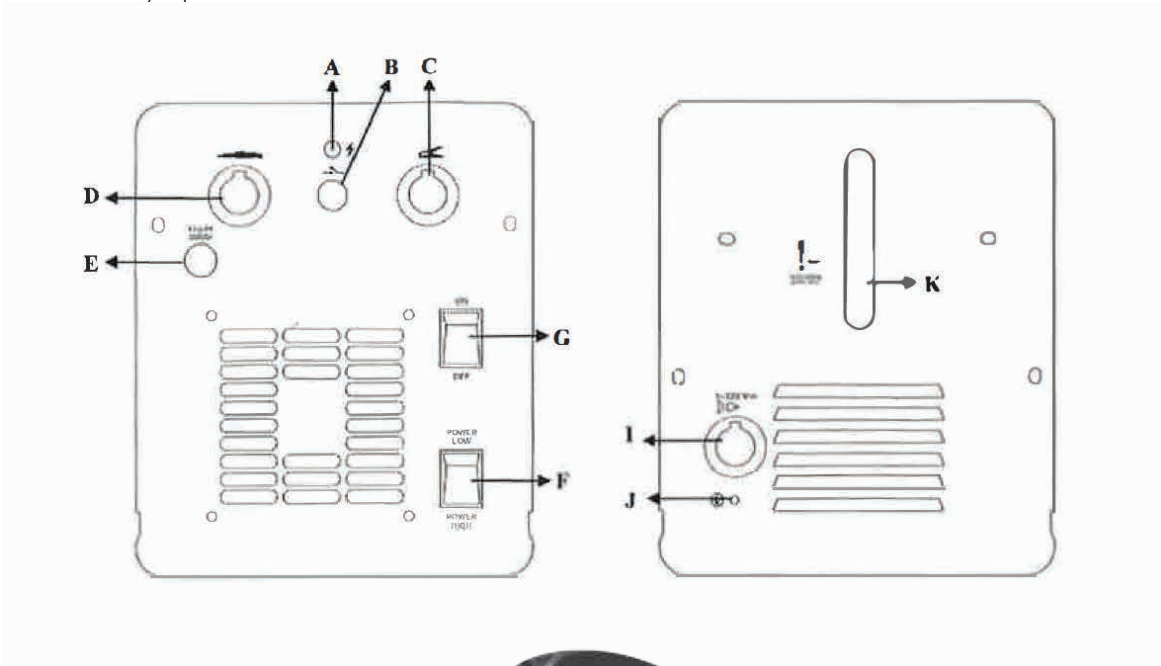
**Fluid Capacity:** Volume of cleaning fluid

**IP21S:** Machine case protection class. The 1 in the second digit place means that this unit is not fit to work outdoors in the rain.

# WT100C Weld Bead Cleaner

## 4. Description of controls

- A, Power indicator
- B, Control socket for cleaning gun
- C, Output terminal for earth
- D, Output terminal for gun
- E, Cleaning liquid connector
- F, Low/high power choice
- G, Power switch
- I, Input power cable (Confirm the power voltage before use)
- J, Ground connector
- K, Level for cleaning liquid



## 5. Installation and operation

Input AC230V to the machine, connect the gun and earth cable to the machine, turn on the machine, the power indicator (green LED) will light. Connect the earth cable clamp to the work piece, press the trigger on the cleaning gun. The cleaning fluid will come out automatically. Wipe the work piece with the cleaning gun, the weld bead will be cleaned. For a better effect, use wet cloth clean the work piece again.

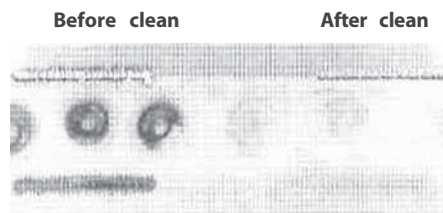
The machine is applied to stainless steel TIG welding bead and welding spot. If the work piece was welded through the back or welded by poor Argon gas, it will reduce cleaning effect. If the machine use for non TIG welding or non stainless steel material, the cleaning effect maybe not good.

**Note:** The cleaning gun or brush head can not contact the earth clamp directly, as the machine will risk short circuit and protection will kick in. The machine will sound alarm "BE-BE-BE-BE" , the power indicator will twinkle, the machine will stop output and stop working. If cleaning gun, or brush head continues to stay in contact with the earth clamp, the machine will stay protected all the time. If cleaning gun or brush head is not contacting the earth clamp, the machine will stop protection and, after 8 seconds, the machine will return to normal.

Patent cleaning gun

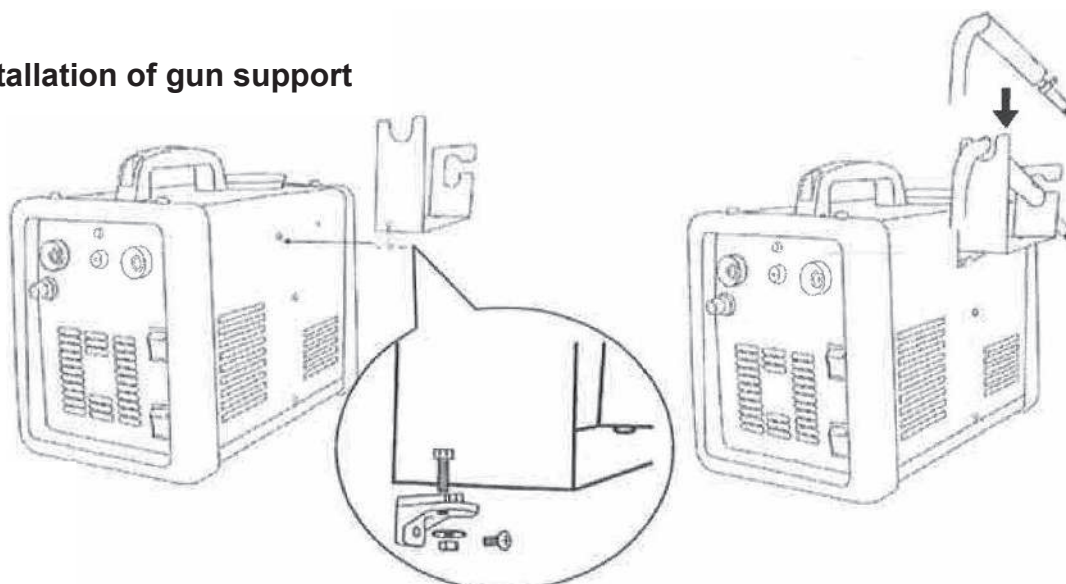


When trigger on the gun, it will spray cleaning fluid.





## Installation of gun support



## 6. Notice

1. When operating the machine, please wear protective goggles, mask and gloves. To avoid the cleaning fluid hurting your eyes or skin.
2. Before using the machine, please confirm the gun and earth cable connection are correct.
3. Perform regular maintenance (Before Maintenance and checking, power must be turned off, and before Opening the housing, make sure the power plug is removed from the outlet or power source.)
  - 1) Remove dust by dry and clean compressed air regularly, if welding machine is operating in environment where is polluted with smokes and polluted air, the machine need removing of dust everyday.  
**NOTE: Do not use compressed air to clean electrical components.**
  - 2) Check inter circuit of welding machine regularly and make sure the cable circuit is connected correctly and connectors are connected tightly (especially insert connector and components). If scale and loose circuits are found, please give a good polish to them, then connect them again tightly,
  - 3) Avoid water and steam entering into internals of the machine, if they enter into machine, please dry internals of the machine then check insulation of machine.
  - 4) If welding machine will not be operated long time, it must be put into packing box and store in dry environment.

## 7. Trouble shooting

TROUBLE	PROBABLE CAUSE	REMEDY
1. Turn on power switch, the indicator is not light.	A. The switch has failed. B. The power cable is damage. C. Input voltage is abnormal.	A. Replace power switch. B. Replace power cable. C. Supply correct power voltage,
2. No output voltage.	A. Bridge rectifier is damaged. B. Switch is damaged. C. The breaker is not reset.	A. Replace the rectifier. B. Replace the switch. C. Reset the breaker.
3. The machine can output voltage, green indicator is light, but it can not clean the weld bead.	A. The cable of cleaning gun is damaged. B. The earth cable is damaged. C. PCB board is damaged.	A. Replace or reconnect the cable. B. Replace or reconnect the cable. C. Replace the PCB board,
4. The machine is alarm.	A. The cleaning gun and earth clamp in are contact. B. The machine is overheating.	A. Separate the cleaning gun and earth clamp. B. Stop working, wait for the machine cool down.

## Care & Maintenance

### Keep your Welding Machine in Top Condition

The WT100C does not require any special maintenance, however the user should take care of the machine as follows:

- Regularly clean the ventilation slots.
- Keep the casing clean.
- Check all cables before use.
- Check electrode holders, work lead/clamps and welding torches before use.
- Replace worn electrode holders and earth clamps, which do not provide a good connection.
- Replace worn torch consumable parts in a timely manner.
- Replace worn wire drive components in a timely manner
- Use a soft cloth or brush to clean electrical components. Do not use liquid cleaning products, water or especially solvents.
- Do not use compressed air to clean electrical components as this can force dirt and dust further into components, causing electrical short circuits.
- Check for damaged parts. Do not use the welder with damaged parts.

If damaged, before further use, the welder must be carefully checked by a qualified person to determine that it will operate properly. Check for breakage of parts, mountings and other conditions that may affect its operation.

Have your welder repaired by an expert. An authorised service centre should properly repair a damaged part.

This appliance is manufactured in accordance with relevant safety standards. Only experts must carry out repairing of electrical appliances, otherwise considerable danger for the user may result. Use only genuine replacement parts. Do not use modified or non-genuine parts.

### Storing the Weld Cleaner

When not in use the weld cleaner should be stored in the dry and frost-free environment.

**⚠ WARNING!** *Before performing cleaning/maintenance, replacing cables / connections , make sure the welding machine is switched off and disconnected from the power supply.*



## Accessories & Consumables

Visit [www.weldtech.net.nz](http://www.weldtech.net.nz) for a full range of consumables and accessories.

## Knowledge & Resources

Please refer to Euroquip website [www.euroquip.co.nz/ Downloads.html](http://www.euroquip.co.nz/Downloads.html) for knowledgebase articles & operation videos.

## Warranty

As part of an on-going commitment to excellence in product support, Euroquip offers a comprehensive product warranty program.

In order to qualify for full warranty support, your product must be registered.

Product not registered with Euroquip is supported by a base 12 month warranty only. Spare parts and technical support will not be available for an unregistered product outside of this base warranty period. If a Euroquip dealer has not already registered your product, please register it online at [www.euroquip.co.nz](http://www.euroquip.co.nz). To request a physical registration form, please contact Euroquip customer service on 0800 387 678.

### Registered warranty period for the WT100C:

Commercial Use: 18 Months

Domestic Use: 18 Months

Warranty covers failure caused by manufacturing and material defects in the product, during the warranty period specified. The warranty period begins when the product is purchased by the end user. Warranty is not transferrable and is only claimable by the original purchaser.

Warranty does not cover parts that are subject to wear and tear from usage.

Warranty covers failure of a product caused by defective materials and/or manufacturing for the period given and the usage specified by Euroquip. The warranty period begins when the product is purchased by the end user. Warranty is not transferrable and is only claimable by the original purchaser.

Warranty also does not cover failure caused by the untimely replacement or service of the above wearing parts. Evidence must be provided that the product has been maintained and serviced suitably for a claim to be considered under warranty.

Failure caused by incorrect operation of the product, lack of proper care and maintenance of the product, external damage, external circumstances such as contaminated fuel or poor water supply, modifications to the product, attempted repair/ service by a party other than an Approved Service Agent, is not covered under warranty.

Warranty does not cover pre delivery service and ad-

justment, or failure that may occur as a result of lack of/ incorrect pre delivery service and adjustment.

Warranty does not cover any incidental, indirect or consequential loss, damage or expense that may result from any defect, failure or malfunction of a product.

Should any issue be found to be a combination of a warranty failure and a non-warranty issue, the repair cost component to rectify and repair the non-warranty failure is the customers' full responsibility.

The decision that an issue with a product qualifies as a warranty claim is made at the sole jurisdiction of Euroquip.

No costs incurred will be considered under warranty if repairs are carried out by a party other than a Euroquip Approved Service Agent, unless with prior consent in writing from Euroquip.

It is the responsibility of the purchaser to deliver a product under warranty to the nearest relevant service agent or product reseller. Warranty does not cover call outs, mileage and freight costs.

If a product is repaired under warranty, parts and labour required for the repair will be supplied at no charge. Warranty assessment and repair will be scheduled and executed according to the normal work flow at the service location and depending on the availability of suitable replacement parts.

This warranty policy is an additional benefit and does not affect the legal rights of any end user, reseller or service agent.



Scan here to register your product



Congratulations on your new WELDTECH product. We are proud to have you as our customer and will strive to provide you with the best service and reliability in the industry. This product is backed by our extensive warranty and service network. To locate your nearest distributor or service agency visit [www.weldtech.net.nz](http://www.weldtech.net.nz), or email us at [customerservice@euroquip.co.nz](mailto:customerservice@euroquip.co.nz)

**[www.weldtech.net.nz](http://www.weldtech.net.nz)**