

# PRODUCT DATASHEET



 English (EN)

Product: SW12V Auto Pin Welder

Product Code: GHT 4005

## DESCRIPTION

The SW12V is a capacitance-discharge welding unit intended for general purpose attachment of pins and wires to work pieces. It has variable energy output to suitable range of pin/wire sizes. This unit is mains and battery operated by flexibility.

## FEATURES

- Hands free operation with audible count-in to 'auto-weld'
- Two energy ranges selectable:
  1. 30 to 60 joules
  2. 125 to 250 joules
- Rechargeable battery via mains connection, while mains working
- Low battery LED indicator and auto switch-off to conserve battery
- Rugged cased floor standing unit with hard rubber feet and tool storage tray
- Supplied with two metre welding cables with large pot magnet and interchangeable pliers:
  1. Long-nose pliers for low range– thinner wire welding
  2. Larger pliers for thicker wire/ pin welding



## FRONT PANEL CONTROLS/CONNECTIONS

- On/ Off Switch: Switch On to use welder, auto changing commences
- Energy Control: Set to required Energy (J)
- Low/ High Switch: Selects 'High' or 'Low' range for Energy Control
- Wait and Ready LED indicators: When 'Ready' is reached, weld can be made
- Low Battery Indicator: Steady, then flashes for 'very-low' (Unit then off to protect battery)
- Mains Indicator: Shows main is connected & battery is charging (Maximum 6 hours)
- GND weld output: Negative current return (magnet)
- LOW weld output: Positive current supply for 'Low' range
- HIGH weld output: Positive current supply for 'High' range

## OPERATION

Firstly select the energy range and value required, then switch unit On.

Once 'Ready' is reached, Auto Weld works as follows: When contact is made between output leads (via pliers, wire/pin, work piece and return magnet) 3 short audible beeps will be heard followed by one longer beep then energy discharge (weld) will occur (Beep-beep-beep-Beep-Weld). See 'Safety Precautions'.

After weld is made unit will charge up again. If unit is left unused for approx. 5 minutes then it will go into 'sleep' mode (indicators off).

Just switch unit off then on to use. Ensure magnet is connected to clean

Magnet is connected to clean metal to prevent sparking.

## SAFETY PRECAUTIONS

Eye protection is recommended to guard against molten metal splatter when weld occurs.

The weld spark could be a source of ignition for flammable liquids or gases so ensure the SW12V is only used in safe areas.

Avoid looking directly at bright spark when making the welded joint.

## INSTRUMENT CARE

Only charge the battery for 6 hours maximum. Longer will degrade the battery.

The SW12V unit is not waterproof so avoid water ingress to front panel.

Clean front panel using slightly damp cloth or, for tough stains, use WD40 type cleaner.

## SPECIFICATION

Size: 225mm x 230mm x 310mm  
Weight: 7kg  
Unit of Sale: Each  
Battery Type: Sealed lead-acid (non-spillable) 12V 2.1Ah  
Mains supply: 110 (factory preset) or 230VAC, 50/60Hz  
Weld Voltage: Approx. 42 to 62V (Minimum to Maximum on energy scale)  
Charging Time: Approx. 6s to 60J and 20s to 250J (Following battery recharge)  
Battery Life: Approx. 800 welds at 40 joules  
EMC: EN61000-6, EN61000-6-3: 2001  
LVD: EN61010-1:2001

Product is CE marked and WEEE compliant