

# Quick Set up Guide

Check the voltage of the machine on the black plate riveted to the back.

- Fix the machine to your bench (or optional stand kit) so the hook from under the machine is clear of the front of the bench.
- Attach the link on the chain from the foot pedal so the base is on the floor and the treadle is at the minimum angle to close the jaws fully.
- Plug in to a 13A standard socket and switch the amber rocker switch
  on, the controller goes through its set up validation process.
- The controller is preset at 140°C, on the (SV) green display showing the set temperature. The red display (PV) shows the actual temperature and will start to increase towards the set temperature, allow this to stabilise at the set temperature. Note on the first cycle the actual temperature will overshoot the set temperature before reducing and being maintained.
- Once this is settled you can change the required temperature for your application. To do this press the ◄ button once and then use the ▼ or
  ▲ buttons to set your desired temperature, and then press the red SET button once. Allow the temperatures to match and the machine is ready for use.

Once the machine has been set up, for your application, the parameters are retained for subsequent use.

# SAFETY INSTRUCTIONS – HEAT SEALING EQUIPMENT

- A. Protection against hazards arising from the electrical equipment
- 1. Safety warnings and instructions in the operators instruction sheets and attached to the machine should be followed with care.
- 2. The equipment has an earthed power cable with integral 5-amp fuse to BS 1363/A fitted with a 5-amp plug. The panel mounted fuse holder on the machine is fitted with a 3.15 antisurge fuse for additional protection. If either fuse fails the reason should be investigated and the machine inspected and tested to ensure that there are no causative faults. Higher value fuses must not be used, as they do not provide the required level of protection.
- 3. Ensure that the power is switched off and the cable plug is removed from the supply outlet before any servicing is undertaken on the product.
- 4. Increased user safety can be achieved if a residual current device (RCD) is used in the supply circuit to the heat sealer. This applies particularly in damp conditions but the equipment must not be allowed to get wet, either from sealing liquids, cleaning or inclement weather. Only specially designed water-resistant sealers should be used in these circumstances.
- 5. Switch off the power supply when the machine is not attended.
- 6. The equipment should be regularly serviced and subjected to Portable Appliance Test procedures in accordance with the Health and Safety Electricity At Work regulations 1989.
- 7. It is essential that only approved spares be used for servicing this equipment. Incorrect parts can result in excessive electrical load on internal components, which can lead, to malfunction and failure.

# Note

Hulme Martin Heat Sealing equipment satisfies the Health and Safety requirements of the Electrical Equipment (Safety) Regulations 1994, CE Low Voltage Directive 73/23/EEC

# B. <u>Protection against non electrical hazards</u>

- 1. The equipment is designed to be operated on a flat, level surface to ensure machine stability. In the case of chain operated machines, the equipment should be securely screwed to the workbench using the flanges provided, to avoid dislodging the machine when the pedal is depressed.
- 2. Heat sealing machines must not be used for packing flammable or explosive materials unless specifically modified to do so.
- 3. When sealing PVC and some other plastic films, which may produce potentially harmful fumes, adequate airflow ventilation or extraction may be required.
- 4. The heating element and jaws will become hot during sealing and adequate cooling time must be allowed before touching these parts of the machine.
- 5. Care should be taken on machines fitted with cutting knives that the blade is moved to a safe position before attempting to reach between the jaws. On hand operated machines, which are pivoted at one end of the pressure bar the knife will slide towards the pivot point when the pressure bar is lifted. For safety ensure that the blade is positioned at the pivot end before lifting the pressure bar.
- 6. A thermal fuse is fitted in line with the heating elements, if for any reason the temperature becomes too hot this will blow and investigations should be made as to the reason.
- 7. Each seal jaw has a voltage of 110V to enhance safety.
- 8. Ensure that hands and fingers are clear of the pressure jaws before actuating the foot pedal. The seal jaws are hot at all times and caution and training must be given to all operators.

# HM 305 CTD CRIMP SEALER

# **OPERATING INSTRUCTIONS**

#### Introduction

The HM 305 CTD Constant Heat Sealer is designed specifically for cellophane, foil, paper and polypropylene laminate materials. It is **not suitable for polythene** and similar low melt unsupported thermoplastics. Attempting to seal such materials will contaminate the sealing jaws with molten plastic, which may be difficult to remove. It will also affect the quality of subsequent seals unless the jaws are thoroughly cleaned.

### <u>General</u>

Before connecting the machine to the electricity supply, check the operating voltage on the name plate attached to the rear of the machine.

The wires in the mains lead are coloured in accordance with the following code:-

Green & Yellow	-	Earth
Blue	-	Neutral
Brown	-	Live

The machine is supplied with a 5A moulded plug and has a standard 5A fuse fitted, if for any reason this is changed please ensure a suitable alternative is used.

#### Installation

Because parts of the sealer can reach high temperatures it is unsafe to operate the sealer unless it is firmly secured to a work surface or support stand.

The unit should be positioned to allow free vertical movement of the operating chain when attached to the hook, which protrudes from the front underside of the machine. To avoid the need to drill clearance holes in the work surface the sealing machine should be positioned to overlap the bench by about  $19 \text{mm} (3/4^{\circ})$ .

When the sealing machine is firmly fixed to its support, the foot pedal should be positioned vertically below the chain hook and the chain length adjusted to ensure that complete closure of the jaws occurs before the pedal is fully depressed.

## **Operating Instructions**

The controller on the HM 305 CTD is a high specification electronic temperature controller offering digital display and using a solid state relay ensuring long operating life and accurate temperature control.

The controller is preset at the factory and has been auto-tuned to give maximum stability during controlling the temperature on the seal jaws. When the machine is switched on it goes through a validation power up sequence.



The controller programmed for a maximum temperature of 180°C. The controller is set at 140°C for the initial set up process. We recommend the temperature is set low and gradually increased to a temperature to seal your material.

When switched on the Red "actual" temperature, upper display, and the green "set" temperature, lower display, illuminate. The upper display will then constantly increase to meet the set temperature and overshoot on the first cycle this is normal.

To increase or reduce your desired temperature simply press the  $\blacktriangleleft$  once and then press the  $\blacktriangle$  button to increase the temperature or  $\blacktriangledown$  to decrease the temperature, once set press the SET key to store the temperature, the upper temperature will then adjust to the set temperature. There should be no need to adjust any other settings on this controller as everything is factory set.

#### **Maintenance**

Provided that the element surfaces are kept clean and any contamination or charred materials are removed, the machine should provide trouble free operation with minimum maintenance.

If the jaws require cleaning we recommend a Scotchbrite scouring pad to be run in line with the crimps when the jaws are cold or luke warm only.

In case of malfunction, check the power supply and the panel fuse.

#### Hulme Martin Heat Sealers Duty of Care

# Directive 2002/95/EC on the restriction of the use of certain hazardous substances in Electrical and Electronic Equipment(RoHS)

The RoHS Directive stands for "the restriction of the use of certain hazardous substances in electrical and electronic equipment". This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

All machines manufactured from 1<sup>st</sup> April 2006 comply with the above directive.

Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) The WEEE Directive aims to reduce the quantity of waste from electrical and electronic equipment and increase its re-use, recovery and recycling. From 1<sup>st</sup> March 2007 Hulme Martin machines are marked with the 'crossed out wheeled bin symbol' to ensure they are dealt with separately from general waste.. We can arrange to collect machines that are no longer required and ensure they are either recycled or disposed safely. We will record details of all collected and recycled machines.

#### WEEE REG NO WEE/DB1381SS

#### Packaging Directive

Directive 2004/12/EC (94/62/EC). Whilst we are not required to register under this directive we use minimal packaging to ensure your purchase reaches you in a first class condition. Packaging used has been recycled wherever possible and can be reused or recycled by the receiver.

#### EC Declaration of Conformity

Machinery Directive 89/392/EEC (Amended 98/37/EEC) The Low Voltage Directive (73/23/EEC) as amended 93/68/EEC 89/336/EEC / Directive 2004/108/EC Electromagnetic compatibility. Our machines comply with the above directives. All new machines are built to a high standard and subjected to visual and electrical tests at several stages during their manufacture. Once assembled we produce test seals to ensure quality standards are met. Finally every machine is Portable Appliance Tested to ensure electrical safety requirements are met.

#### ISO 9000 Quality Management

Hulme Martin Heat Sealers Ltd operates from documented quality management systems to ensure we meet our customers' requirements. We conform to the required directives as listed above, and our equipment meets CE requirements. Customers are welcome to visit our factory to inspect our documentation and manuals.

#### ISO 14000 Environmental Management

Hulme Martin Heat Sealers ensures its activities causes minimal effects on the environment. We continually monitor our practices to achieve the best possible improvement on our environmental performance.

#### <u>Warranty</u>

In the unlikely event that it becomes necessary to return the machine for repair or maintenance, please ensure that it is adequately packed to avoid accidental damage and include your advice note detailing the date of purchase and invoice reference number. Defects occurring from faulty materials or manufacture will be repaired free of charge within the 12 month warranty period provided that the machine has not been misused; is correctly maintained, and has not been subject to unauthorised repair. However, transportation costs are excluded from the warranty.

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