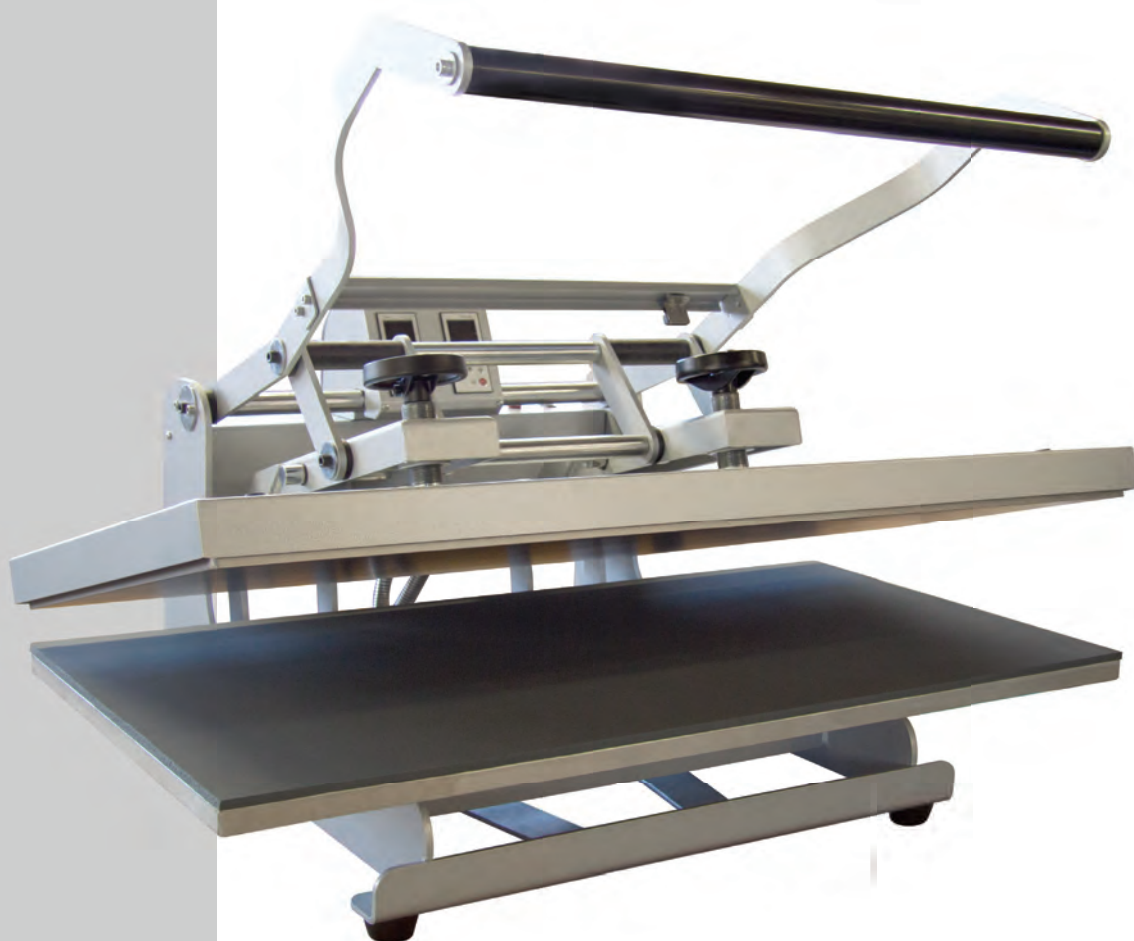


ADKINS

Studio Large Format Clam



Operators Handbook

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Preface

Dear User

Welcome to the growing group of Studio Large Format Clam Press users. The product you have purchased has been carefully designed and manufactured to ensure that you, the user, will gain the maximum benefit.

All A. Adkins & Sons Limited products are specifically designed to ensure ease of use with particular attention to safety requirements.

Should you discover any fault or damage upon receipt of this product, you should immediately contact your supplier.

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1. Introduction Studio Large Format Clam Press

1.1 Specifications of the Studio Large Format Clam Press

The Studio Large Format Clam Press is a manually operated heat press for transfer printing and material fusing. It is ideal for medium volume production.

The work area is 100 x 50 cms (39.5 x 19.5 ins).

Specifications

European Machines

Power consumption	7 kW
Power supply	380/440 Volts (3-phase E+N)
Max. working temperature	260°C (500°F)
Machine height open	114.3 cms (45 ins)
Machine height closed	51 cms (20 ins)
Machine width	102 cms (40.125 ins)
Machine depth	90 cms (35.5 ins)
Net weight	142 kg (313 lbs)
Weight export packed	188 kg (414 lbs)
Dimensions export packed	112 x 100 x 70 cm (44 x 39.3 x 27.5 ins)
Press pad dimensions	100 x 50 cms (39.5 x 50 ins)
Mains Fuse	32 A
Auxiliary Fuse	3 A

1.2 Safety Tips

- ◆ **If required, our customer service team** can arrange maintenance service.
 - ◆ **The Studio Large Format Clam Press** meets the European Legislation standard. Under normal conditions accidents are rare. However listed below are some practical points to ensure your safety.
 - **Always use both hands** when opening or closing the press for positive control of the movement of the handle.
 - **Always switch off** the current (and pull plug out of the socket) when undertaking maintenance work or when cleaning the machine.
 - **Ensure that there is** sufficient space around the machine. Cables and connections must not get jammed. Although the heat radiation of the press is low, there should be enough space for cooling down.
 - **Avoid contact** with the heat plate.
 - ◆ **DO NOT REMOVE THE INSTRUMENT COVER UNLESS QUALIFIED TO DO SO** - touching internal parts is dangerous and may cause shock hazard. All electrical connections inside covers are live. Never operate Press with any covers and/or guards removed.
 - ◆ **PROTECT THE MAINS CABLE** - damage to the mains cable may cause fire or shock hazard. When unplugging, hold by the plug only and remove carefully. Take care that the mains cable does not come into contact with the heat plate (or moving parts of the mechanism) during operation of the machine.
 - ◆ **OPERATING AMBIENT TEMPERATURE RANGE** - the operating ambient temperature range is 32°F - 104°F, (0°C - 35°C) and humidity of 20 - 80%.
 - ◆ **MACHINE FUSES** - Mains 32 amp/Auxiliary 3 amp.
 - ◆ **WARNING - THIS APPARATUS MUST BE EARTHED (GROUNDED)**
 - ◆ **CAUTION**
This machine gets hot whilst operating. Take care not to touch any surfaces that are labelled "Caution this plate is HOT".
 - ◆ **MACHINE OPERATION**
Only persons trained to do so should operate this machine.
-

2. Installation

2.1 Transport instructions

The machine comes to you either shrink-wrapped or in a box. If you have to transport the machine at any time it is recommended that you use a similar box and packing method. Please let the machine cool down and lower the handle to the locked position.

2.2 Installing the machine

2.2.1 **Remove all** packaging from the heat press.

2.2.2 **Check to ensure** that no damage has been caused to the machine during transit.

2.2.3 **Place the machine** on a sturdy horizontal surface that is within easy reach of the operator and allow space for the handle to move up to the loading position. Ensure that no items vulnerable to heat radiation are too close to the machine.

2.3 Electrical requirements

The Studio Clam Large Format Press should be connected to the mains supply, (3-phase E+N) by the mains cable provided and a suitable plug.

The presses are designed for 380/440 volts AC 50/60 hertz and require exclusive use of a power outlet rated for at least 32 amps.

Ensure that the supply rating on the machine specification plate corresponds with your local supply and that the correct plug is fitted.

MAINS LEAD

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

Green and Yellow:	EARTH
Blue:	NEUTRAL
Brown:	LIVE
Grey:	LIVE
Black:	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:-

Electrical requirements (cont.)

1. **The wire coloured green and yellow** must be connected to the terminal in the plug that is marked by the letter E, or by the safety earth symbol coloured green, or green and yellow.
2. **The wire coloured blue** must be connected to the terminal, which is marked with the letter N.
3. **The wires coloured brown** must be connected to the terminals, which is marked with the letter L.

NOTE:

Replacement of the mains cable must be done by a competent service engineer.

HEATING ELEMENT

The heating element fitted to the **Studio Large Format Clam Press** is rated at 7 kW.

Never connect to any outlet or power supply having a different voltage/frequency from that on the machine data plate.

2.4 Adjusting the pressure

This press is fitted with a pressure-adjusting unit, which enables the heat plate assembly to be raised or lowered by use of a pressure adjustment hand wheels located on the top of the heat plate:

- a) **To increase pressure** or to use thinner materials turn both adjustment hand wheels clockwise.
- b) **To decrease pressure** or to raise the heat plate assembly to enable thicker materials to be used, turn the adjustment hand wheels anticlockwise.

NOTE

DO NOT adjust the pressure when the machine is clamped shut

CAUTION

This machine is designed to be used with a light to medium clamping pressure. If the pressure of the machine is adjusted too high this may cause damage to the machine and invalidate your warranty. Other machines are available for high-pressure applications. Please ask your supplier for details.

3. How to Operate the Studio Large Format Clam Press

3.1 Starting with the Studio Large Format Clam Press

3.1.1 Plug into your supply outlet and switch supply on.

N.B. Please ensure the mains plug is easily accessible to the operator so that in the event of a fault the machine can be unplugged.

3.1.2 Turn on the Studio Large Format Clam Press; the on/off switch is on the back of the machine. Set the machine controls as necessary. See instructions for Adjusting the pressure page 4 and Operation of Control Units page 11. Press red on/off button to activate and heat the Heat Plate.

3.2 Working with Heat Transfer Materials

Always ascertain from the supplier of material and transfer paper, that the material to be used is suitable for, and has been prepared for transfer printing.

3.2.1 Close the press to check the amount of closing pressure the machine has been set at. If more or less pressure is required then open the machine and turn the pressure-adjusting hand wheels located on top of the heat plate. For further instructions see “pressure adjustment”.

3.2.2 Ensure that the heat controller is set to the correct setting for the material being used. Before using the machine, preheat the base pad of the machine by closing and re-opening the press a number of times.

After pre-heating ensure that the machine is in the fully open position.

3.2.3 Place the article to be transfer printed onto the pressing pad and locate the transfer paper/substrate material on top in the position required. **Take care not to touch the heat plate to avoid the risk of burns.**

3.2.4 Lower the heat plate by pulling down the handle.

Working with Heat Transfer Materials (cont.)

3.2.5 When the required time interval has elapsed the alarm will sound and the press should be opened by lifting the handle up until it locks into position.

Unload the garment from the table of the machine taking care not to touch the heat plate to avoid risk of burns.

3.3 Pressing Pad Assembly

The pressing pad normally supplied with this machine is silicone rubber. The pressing pad must be maintained in good condition at all times and replaced when showing signs of wear. A worn pressing pad will always affect the quality of printing/fusing. Do not insert items into the machine, which would tend to cut the pressing pad, i.e. buttons, pins, press-studs or zips.

Never allow the hot heat plate to rest on the pressing pad when the press is not being used as the pad may be damaged.

IMPORTANT NOTE:

The pressing pad supplied with the machine is of the correct thickness. Using a thicker pad may invalidate your warranty.

3.4 Shutting Down the Machine

To shut down the machine, turn off the on/off switch at the back of the machine. The handle should be in the up position.

4. Maintenance of the Machine

4.1 Daily Maintenance

For good press results it is important to keep the press surfaces clean. Wipe the surface of the heat plate with a dry cloth before use when the plate is cold.

4.2 Periodic Maintenance

Put a few drops of oil onto the various pivot pins and the pressure adjusting screw every three months.

4.3 Cleaning

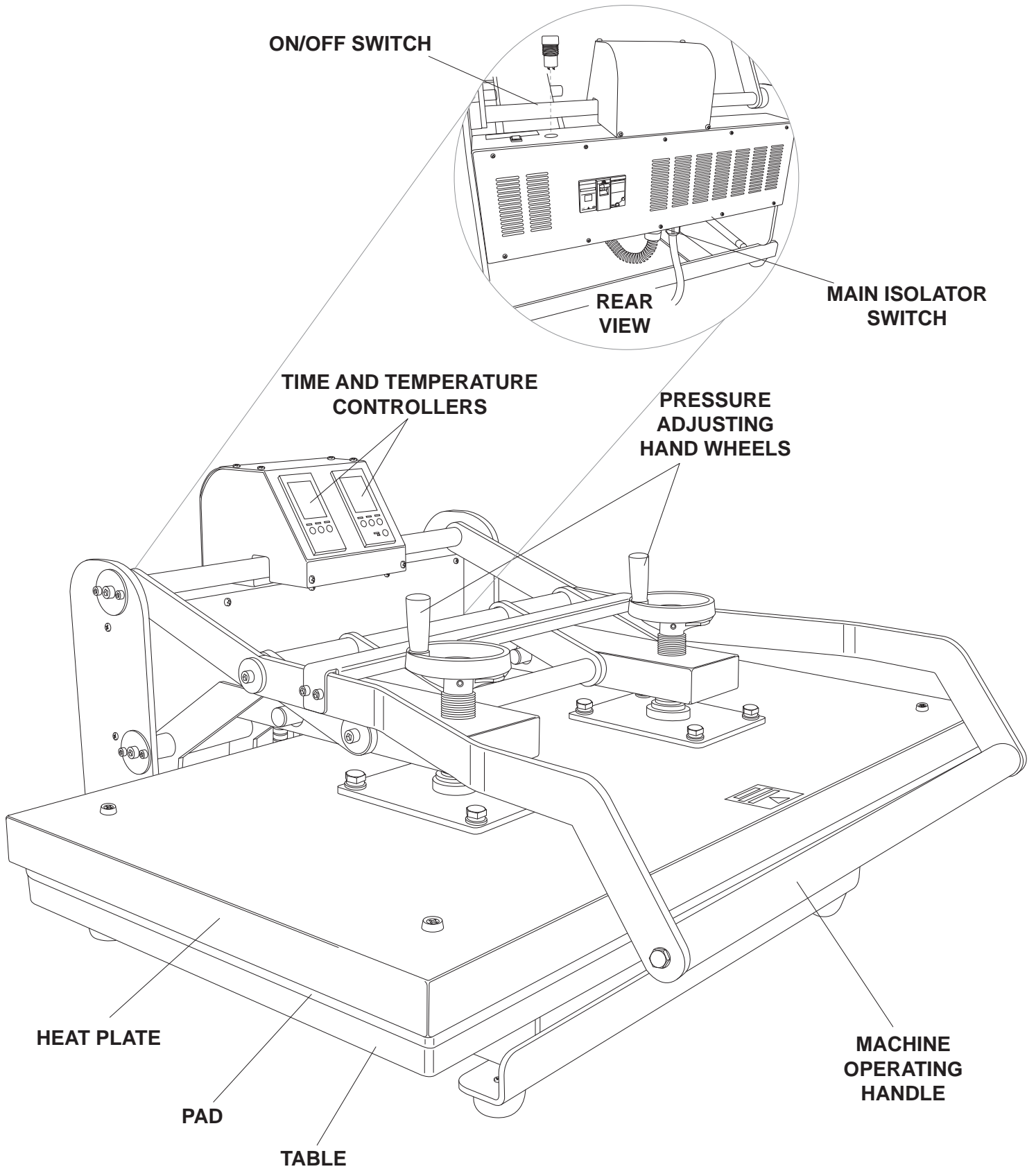
Clean the outside of the machine frequently with a clean, moist cloth. This may conveniently be carried out before starting when the machine is **cool**. First unplug the machine!

5. Machine Drawings and Diagrams

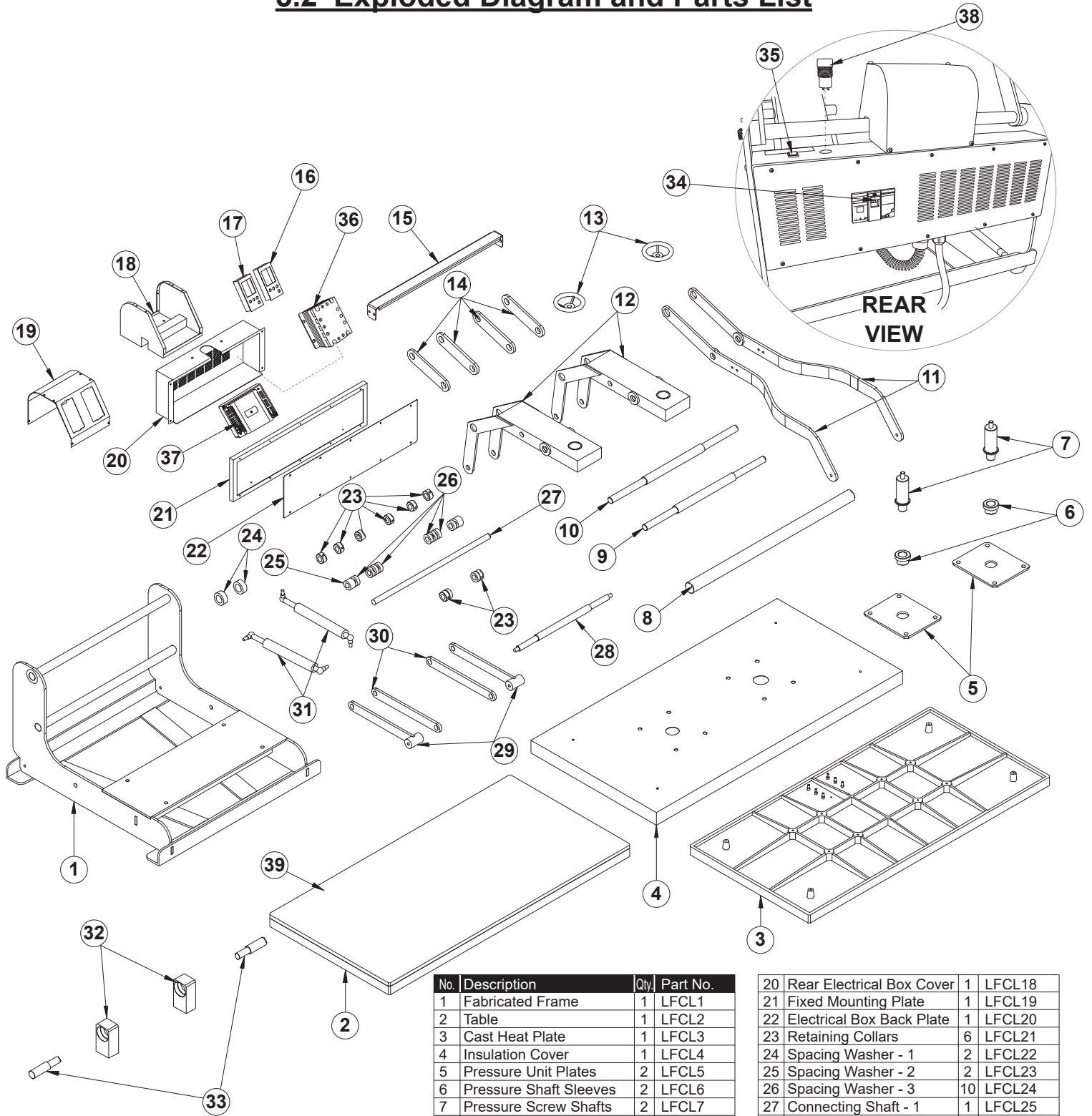
On the following pages are the schematic diagrams for the Studio Large Format Clam Press.

- 5.1 General Layout..... Page 9**
- 5.2 Exploded diagram and parts list..... Page 10**
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5.1 Machine General Layout



5.2 Exploded Diagram and Parts List

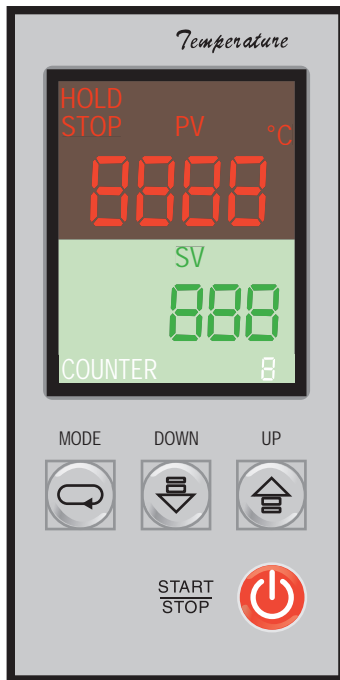


No.	Description	Qty.	Part No.
1	Fabricated Frame	1	LFCL1
2	Table	1	LFCL2
3	Cast Heat Plate	1	LFCL3
4	Insulation Cover	1	LFCL4
5	Pressure Unit Plates	2	LFCL5
6	Pressure Shaft Sleeves	2	LFCL6
7	Pressure Screw Shafts	2	LFCL7
8	Operating Handle	1	LFCL8
9	Connecting Shaft - 2	1	LFCL9
10	Connecting Shaft - 3	1	LFCL10
11	Handle Arms	2	LFCL11
12	Heat Plate Support Arms	2	LFCL12
13	Hand Wheels	2	LFCL13
14	Arm Plates - 1	4	LFCL14
15	Cover Plate	1	LFCL15
16	Temperature Controller	1	ASCL22
17	Time Controller	1	ASCL7
18	Control Box	1	LFCL16
19	Control Box Cover	1	LFCL17

20	Rear Electrical Box Cover	1	LFCL18
21	Fixed Mounting Plate	1	LFCL19
22	Electrical Box Back Plate	1	LFCL20
23	Retaining Collars	6	LFCL21
24	Spacing Washer - 1	2	LFCL22
25	Spacing Washer - 2	2	LFCL23
26	Spacing Washer - 3	10	LFCL24
27	Connecting Shaft - 1	1	LFCL25
28	Connecting Shaft - 4	1	LFCL26
29	Arm Plates - 4	4	LFCL27
30	Arm Plates - 5	4	LFCL28
31	Gas Strut	2	LFCL29
32	Support Blocks	2	LFCL30
33	Support Pins	2	LFCL31
34	Machine Isolator Switch	1	LFCL32
35	On/Off Switch	1	ASCL29
36	Solid State Relay	1	AFCL37
37	Controller	1	ASCL33
38	Power Warning Light	1	ASCL39
39	Silicone Pad	1	LFCL33

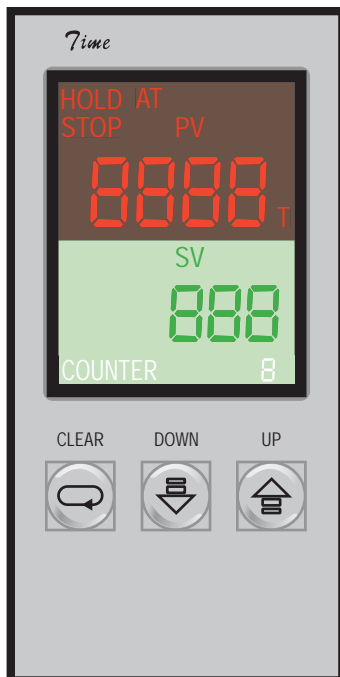
5.3 Operation Of Control Units, Setting Temperature and Time

(The press must always be in the open position before the controller is set)



Setting Temperature

1. Switch on machine.
2. Press 'UP' and 'DOWN' buttons to change temperature values.
3. The unit stores automatically once required value is achieved.
4. Press 'START/STOP' button to start machine heating.



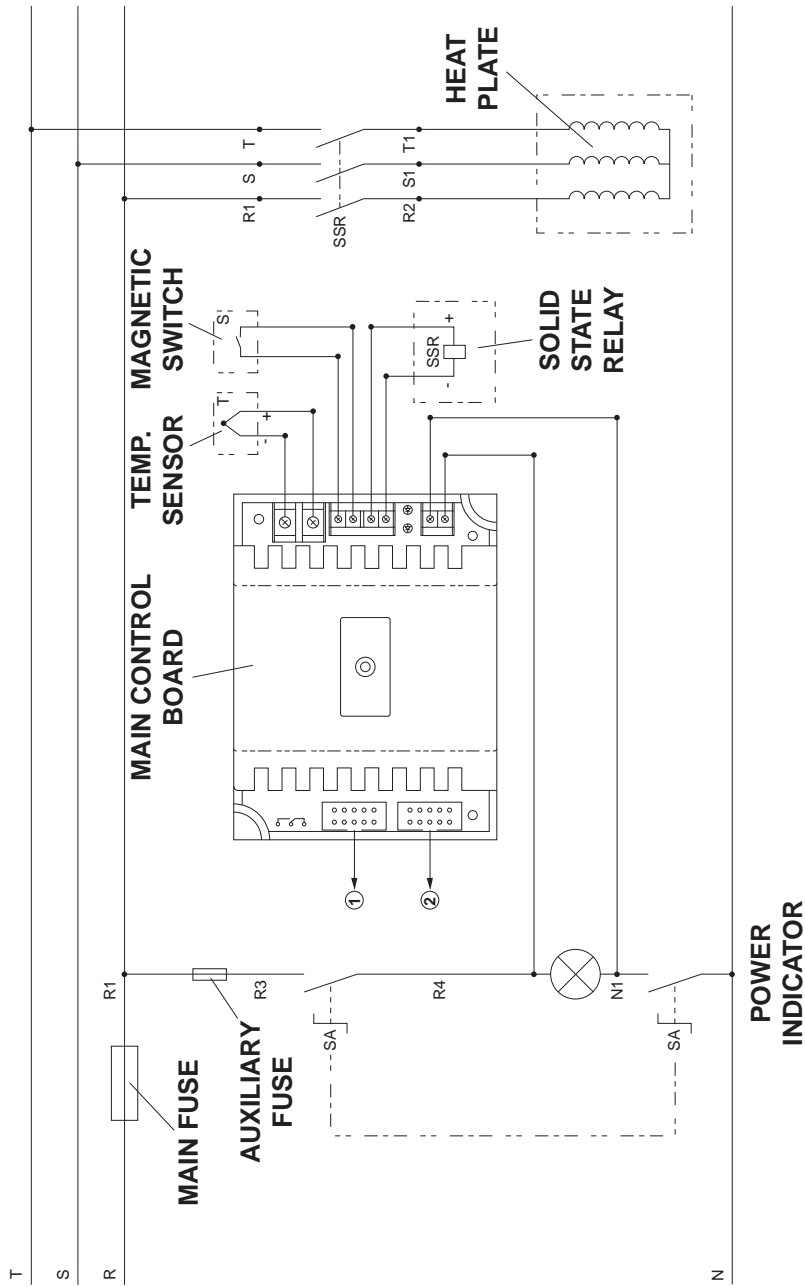
Setting Time

1. Switch on machine.
2. Press 'UP' and 'DOWN' buttons to change time values.
3. The unit stores automatically once required value is achieved.
4. Press 'START/STOP' button to start machine.

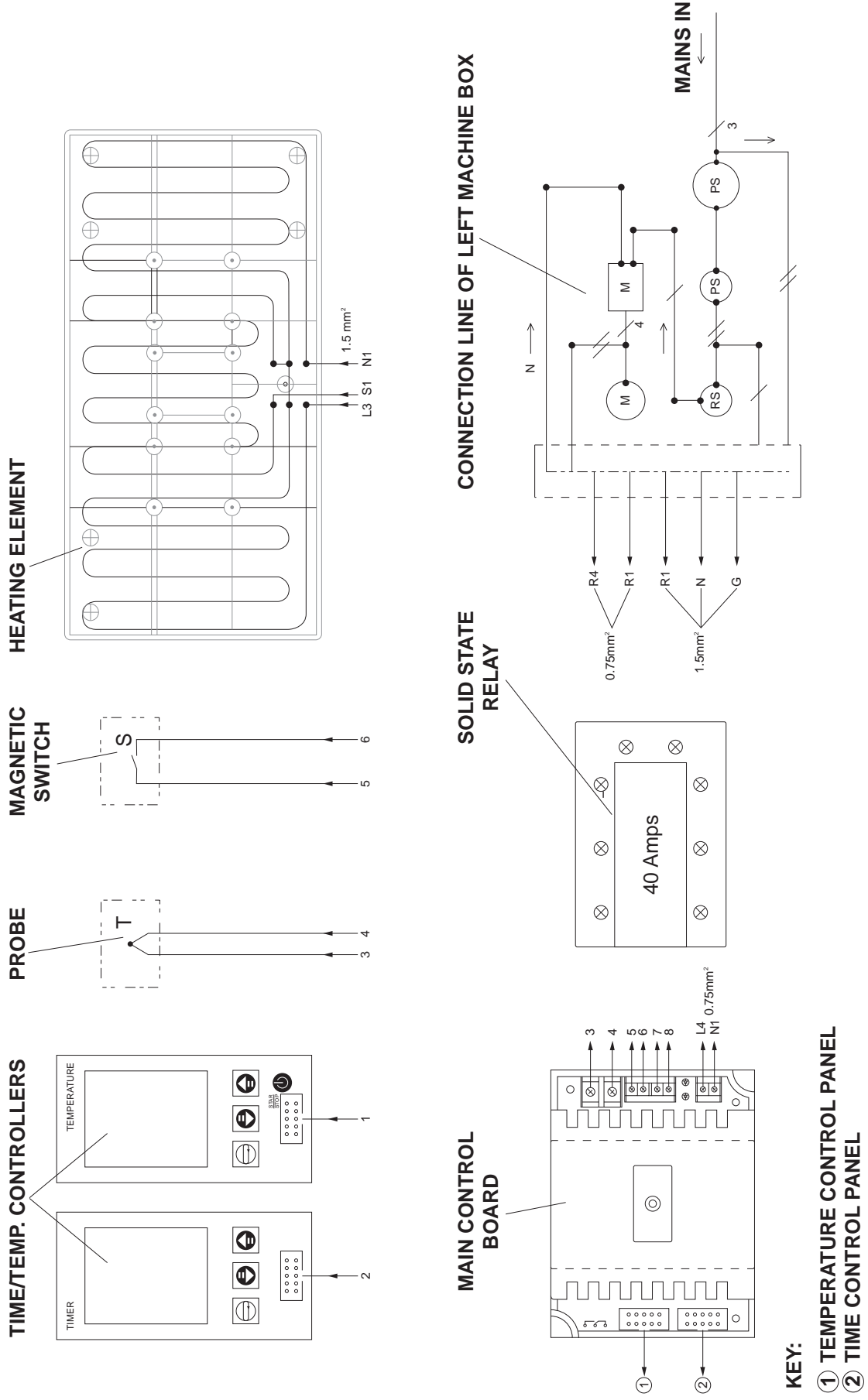
Setting Digital Counter to Zero

1. Press 'CLEAR' button and 'COR' will appear in controller window and 'COUNTER' value will flash.
2. Press 'CLEAR' button again to zero counter.

5.4 General Electrical Diagram



5.5 Detailed Electrical Diagram



KEY:
 ① TEMPERATURE CONTROL PANEL
 ② TIME CONTROL PANEL

6. Design Change

With the policy of constant improvement and/or modification to meet changing conditions, the right is reserved to change the design and/or specifications at any time without prior notification, and therefore specifications may vary and not be in accordance with this manual.

7. Guarantee (Limited Warranty)

A. Adkins & Sons Limited warrants that the press is free from defects in material and workmanship for a period of 12 months from the date of supply to the customer. The machine comes with a one-year warranty on parts and 90 days labour.

This warranty covers all parts to repair the defects, except when damage results from misuse or abuse, accident, alteration or negligence or when a machine has been improperly installed.

If a press covered by warranty should need to be returned to the factory for examination and repair, if on-site component replacement is not possible, A. Adkins & Sons Limited will make every effort to repair the customers press. The warranty will only be effective when A. Adkins & Sons Limited authorises the original purchaser to return the machine to the factory and only when the product upon examination has proven to be defective.

Should in our opinion any part of this press be defective in materials or workmanship, it will be replaced or repaired free of charge, provided that the press has been installed and operated in the correct manner and not subjected to misuse. If A. Adkins & Sons Limited authorise a replacement press, the warranty of the replacement press shall expire on the anniversary date of the original machines invoice to the customer.

In order for this warranty to be effective, no return of machine or parts may be made without prior factory authorisation. (This will exclude any travelling and/or carriage costs which will be charged at our discretion).

This is the sole warranty given by the company; there are no warranties, which extend beyond the description on the face hereof. The seller disclaims any implied warranty of merchantability and/or any implied warranty of fitness for a particular purpose; the buyer agrees that the goods are sold "as is". A. Adkins & Sons Limited does not warrant that the functions of the press will meet the customer's requirements or expectations. The entire risk as to use, quality and performance of the press lies with the customer. (No claim of any kind shall be greater than the sale price of the product or part to which the claim is made).

In no event will A. Adkins & Sons Limited be liable for any injury, loss or damage, including loss of profits, destruction of goods or any special, incidental, consequential or indirect damages arising from the use of the press or accompanying materials. This limitation will apply even if A. Adkins & Sons Limited or its authorised agent had been advised of the possibility of such damage.

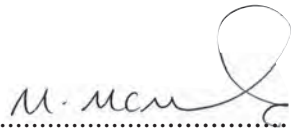
A. ADKINS & SONS LIMITED
DECLARATION OF CONFORMITY



<p>Application of Council Directives:</p> <p>Standards to which Conformity is Declared:</p>	<p>Machinery, Low Voltage. E.M.C.</p> <p><u>BS EN ISO 12100-1:2003+A1:2009</u> - Safety of machinery: Basic Technology. <u>BS EN ISO 12100-2:2003</u> - Safety of machinery: Principles of Design. <u>BS EN 60204-1:2006</u> - Safety of machinery: Electrical Equipment of Machines. <u>BS EN 60529:1992</u> - Degrees of protection provided by enclosures. <u>BS EN ISO 13850:2008</u> - Safety of machinery: Emergency Stops. <u>BS EN ISO 141211:2007</u> - Safety of machinery: Principles for Risk Assessment. <u>BS EN 55011:1998</u> - Class A Group 2 equipment - EMC Emissions. <u>BS EN ISO 61000-6-4:2007</u> - EMC Conducted Emissions. <u>BS EN ISO 61000-6-2:2005</u> - EMC Immunity.</p>
<p>Manufacturer's Name:</p>	<p><u>A. Adkins & Sons Limited</u></p>
<p>Manufacturer's Address:</p>	<p>High Cross, 18 Lancaster Road, Hinckley, Leicester, LE10 0AW, United Kingdom.</p>
<p>Type of Equipment:</p>	<p>Studio Large Format Clam Heat Press</p>
<p>Model Number:</p>	<p>.....</p>
<p>Serial Number:</p>	<p>.....</p>
<p>Year of Manufacture:</p>	<p>.....</p>

I, the undersigned, hereby declare that the equipment specified above conforms to the above directives and standards.

Place: Hinckley, United Kingdom

Signature: 

Date:

Full Name: Marie McMahon
 Position: General Manager