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morgana

AutoCreaser Pro 33

The Morgana AutoCreaser Pro 33 is a fully automatic suction feeding creasing system designed for use with both conventional litho and digital printers.

The feed on the AutoCreaser Pro 33 can also be manually operated for use with heavy stock, very small or very large sheets, embossed or even irregular sheets.

The crease is programmed from the leading edge of the sheet using the controls on the front panel.

The blade and anvil are mechanically controlled over their entire length and can be adjusted to accommodate various weights of media.

IMPORTANT

The operating environment should be controlled to a temperature between 16° C and 27° C Maximum

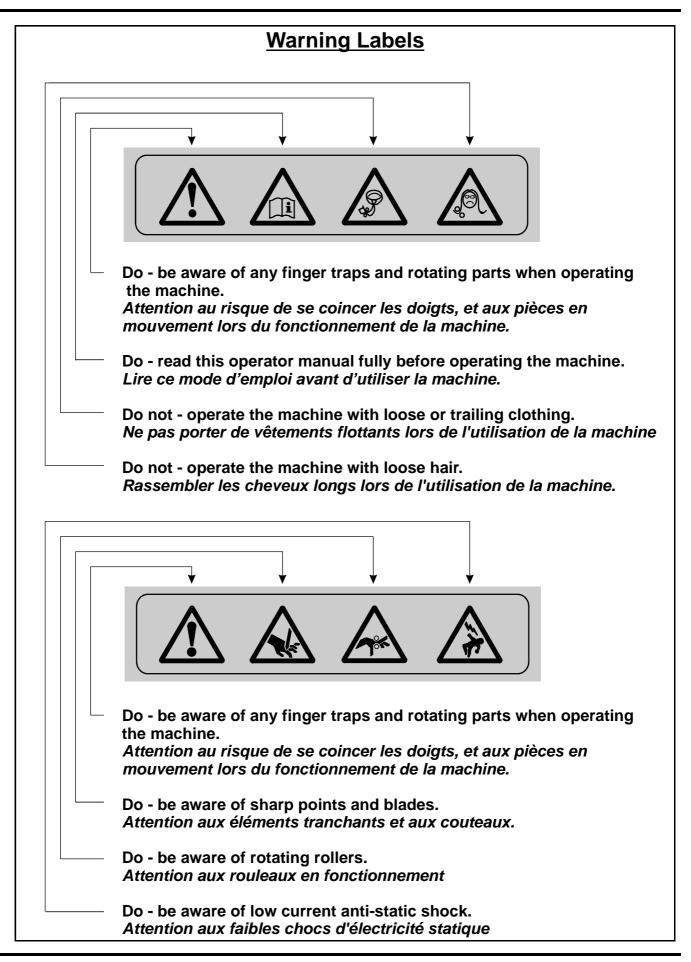
Specification

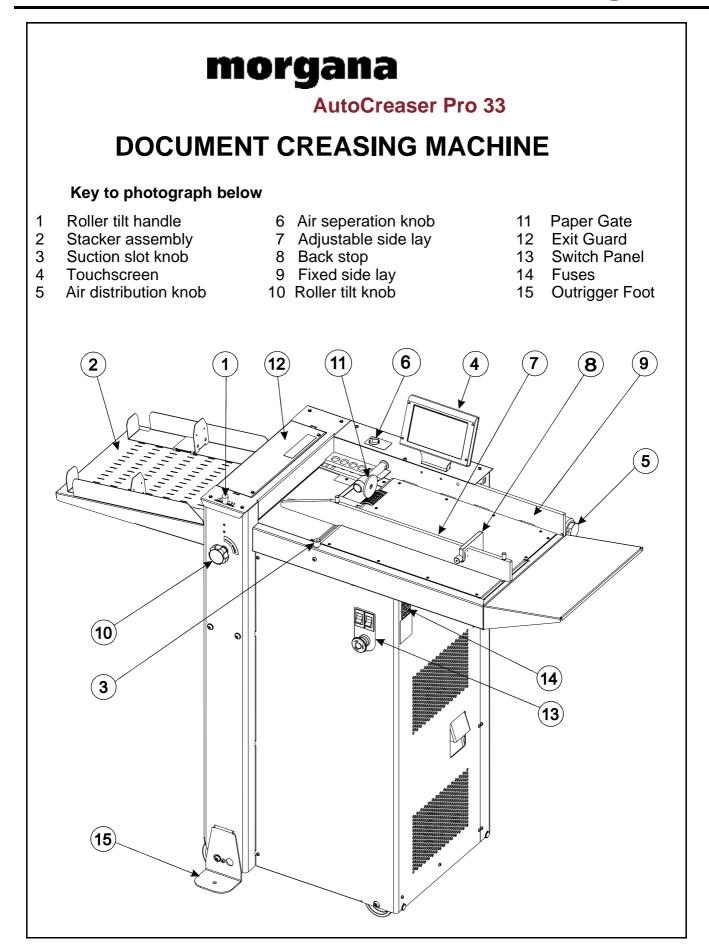
| Feeding System | Bottom suction feed |
|--|--|
| Max. Sheet Size | |
| Min. Sheet Size (in automatic mode) | |
| Max. Paper Thickness | |
| | type of fold, and substrate) |
| Max. No. Creases per Sheet | |
| Min. Distance Between Creases | |
| Max. No. Stored Programmes | |
| Min. Crease Distance from Leading Edge | |
| | |
| Min. Crease Distance from Tail Edge | |
| In Hand Feed Mode up to 2499.9mm to Last C | |
| Speed per Hour (A4 in half) | |
| Speed per Hour (A5 in half) | 11000 |
| | |
| D: | |
| Dimensions | |
| | L: (57") H: (48.2") W: (20.5") |
| Weight | L: (57") H: (48.2") W: (20.5") .121Kgs (+50Kgs packing) |
| | L: (57") H: (48.2") W: (20.5") .121Kgs (+50Kgs packing) 1 phase 230v 50Hz |
| Weight Power Requirement | L: (57") H: (48.2") W: (20.5") .121Kgs (+50Kgs packing) 1 phase 230v 50Hz 1 phase 220v 60Hz |
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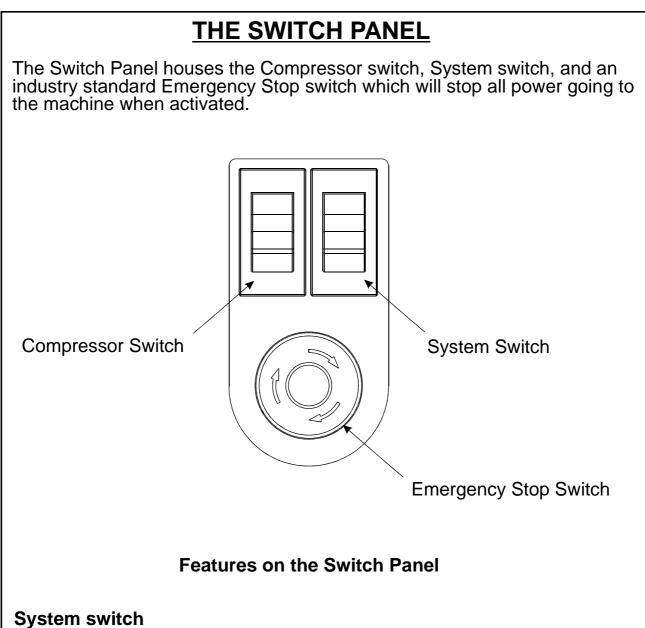
AutoCreaser Pro 33





Page 6

CREASING



When activated the system switch will operate the motors in order to begin the creasing sequence.

Compressor switch

Allows the operator to switch off the compressor unit in order to utilise the machine to manually feed sheets.





Setting the machine to operate in automatic sheet feed mode

- 1. Set the gap between the paper gate and the vacuum roller to approximately twice the thickness of the stock to be creased.
- 2. Place the stock to be creased onto the loading table against the fixed side lay.
- 3. Release the clamps on the adjustable side lay and slide up to the paper stack allowing a gap of approximately 0.5mm (1/64 inch) between the paper and the side lay.
- 4. Position the backstop and slide it up to the paper stack, also allowing a gap (as stated in the above step).
- 5. Turn the Emergency Stop button clockwise to switch the power on. After the system start up procedure the touch screen will be displayed as shown below.



IMPORTANT.

If you have not been trained to operate this machine, we strongly advise that you select the red cross icon.

We recommend that you either seek training or ask a trained operator to run the machine for you.

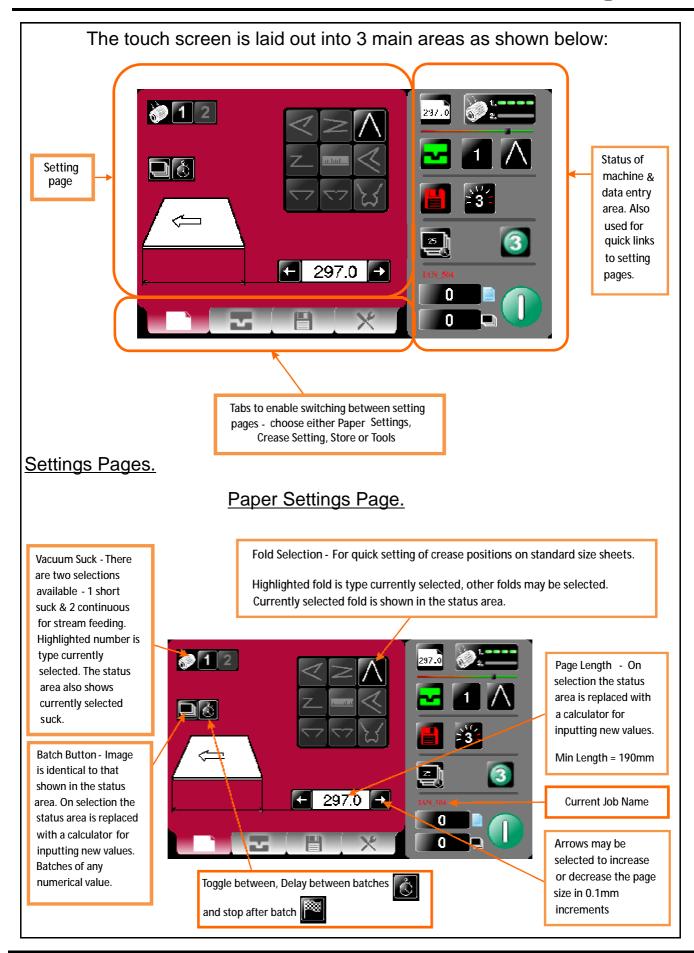
Select the green tick icon only if you have been trained to operate this machine.

If you have not been trained to operate this machine and you select the green tick icon, Morgana Systems Ltd accept no responsibility for personal injury, damage to the machine or damage to materials being processed by the machine.

WARNING:-

Wait at least 10 seconds, after making any selection on the Touchscreen panel, before switching the machine OFF. Failure to do so could result in the data storage being corrupted, and the machine not operating.

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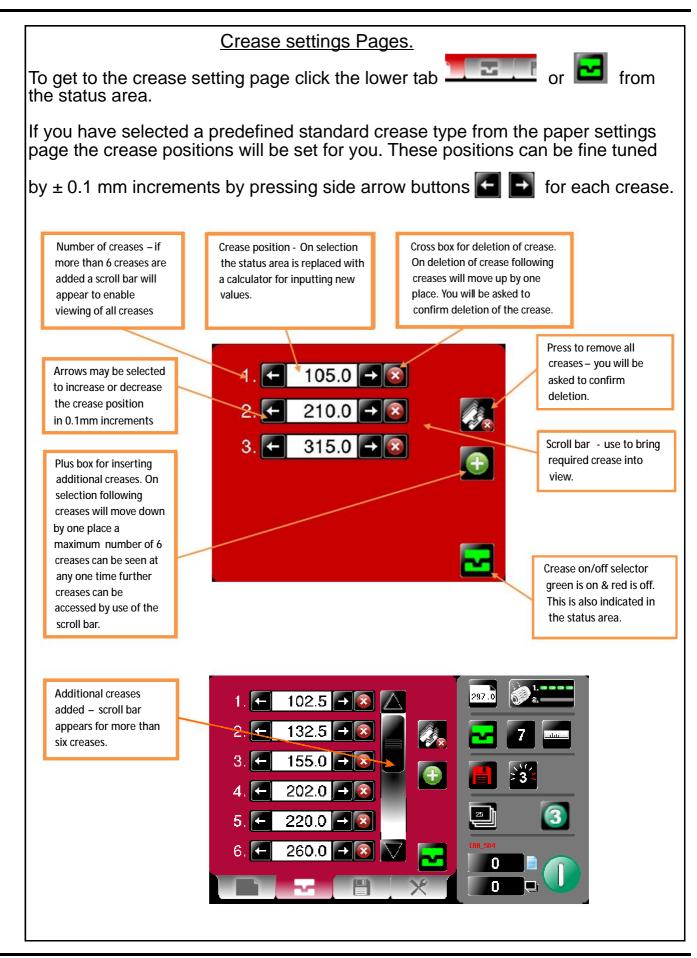


Page 10

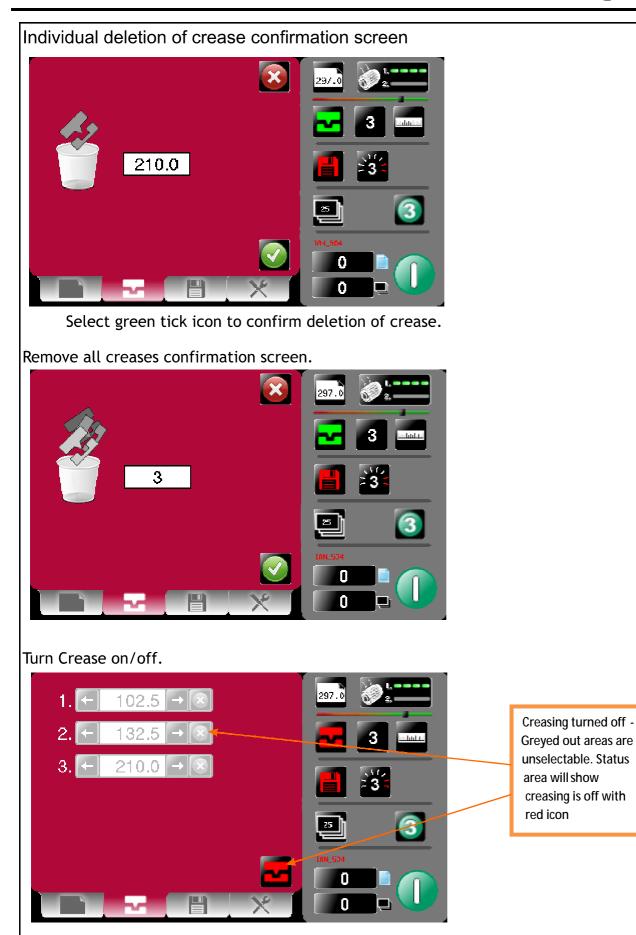
CREASING

AutoCreaser Pro 33

Quick Start Guide

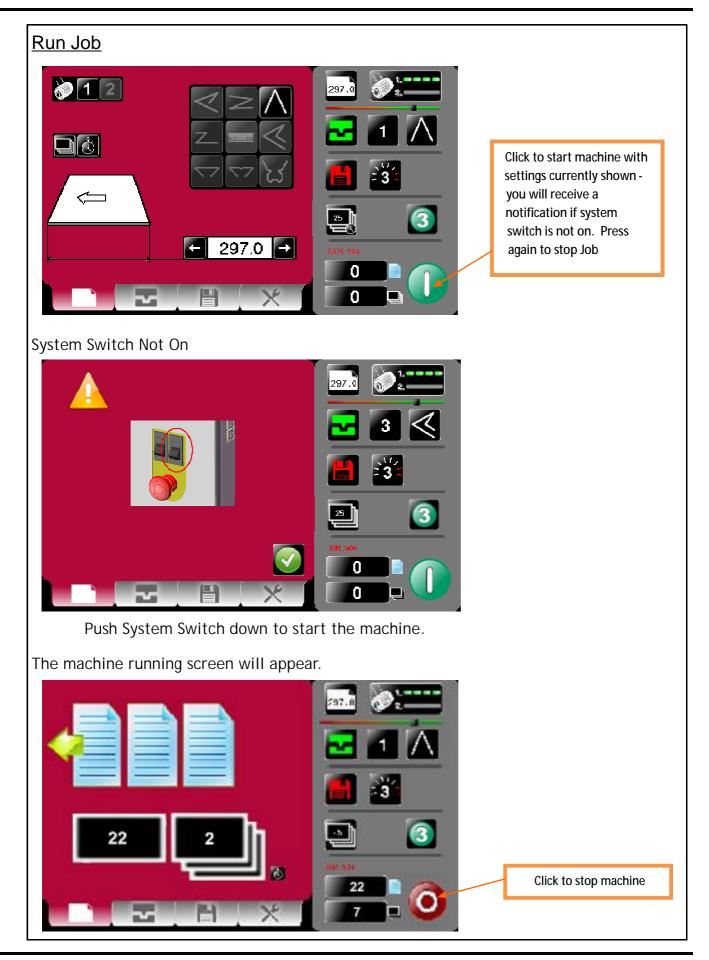


SYSTEM

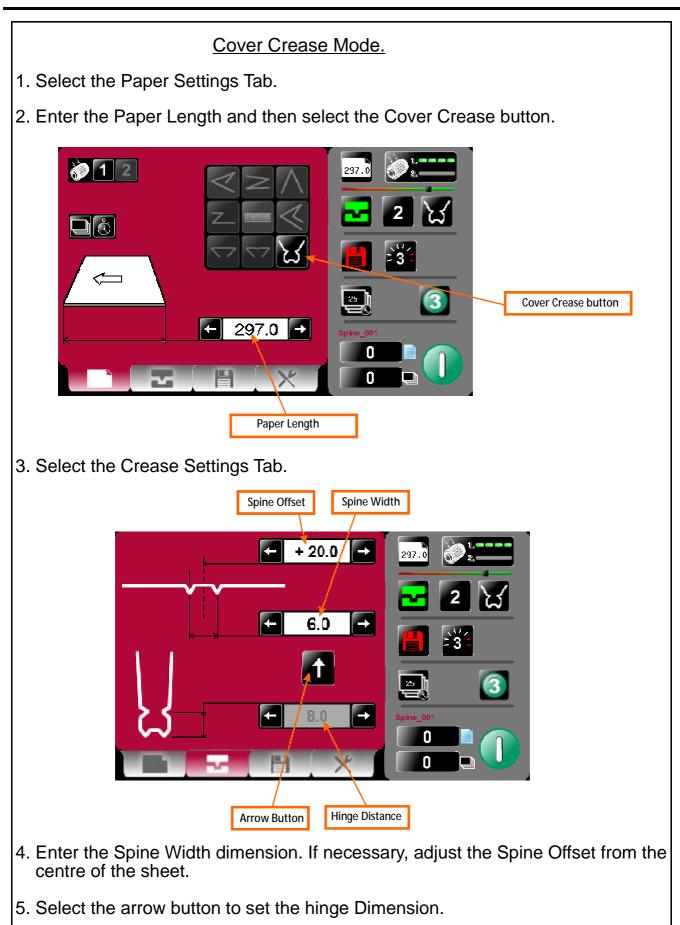


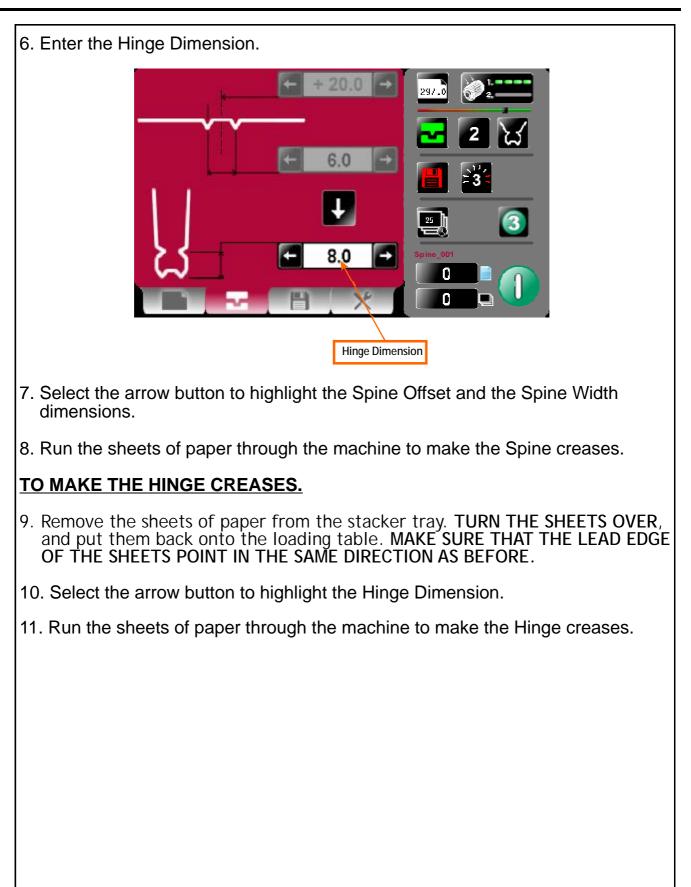
CREASING

Quick Start Guide



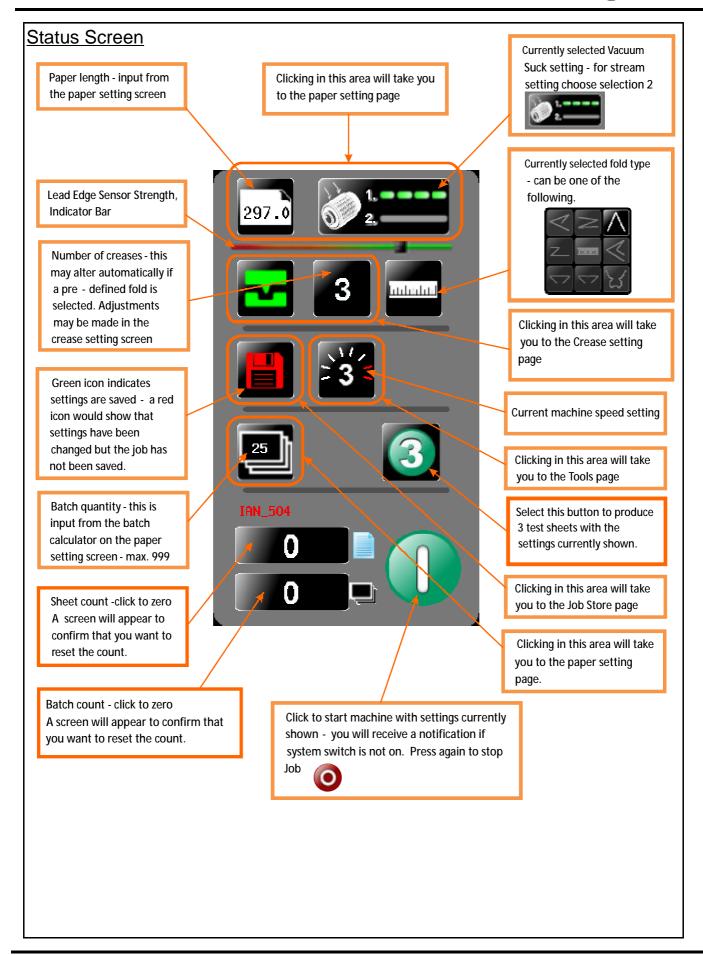
SYSTEM

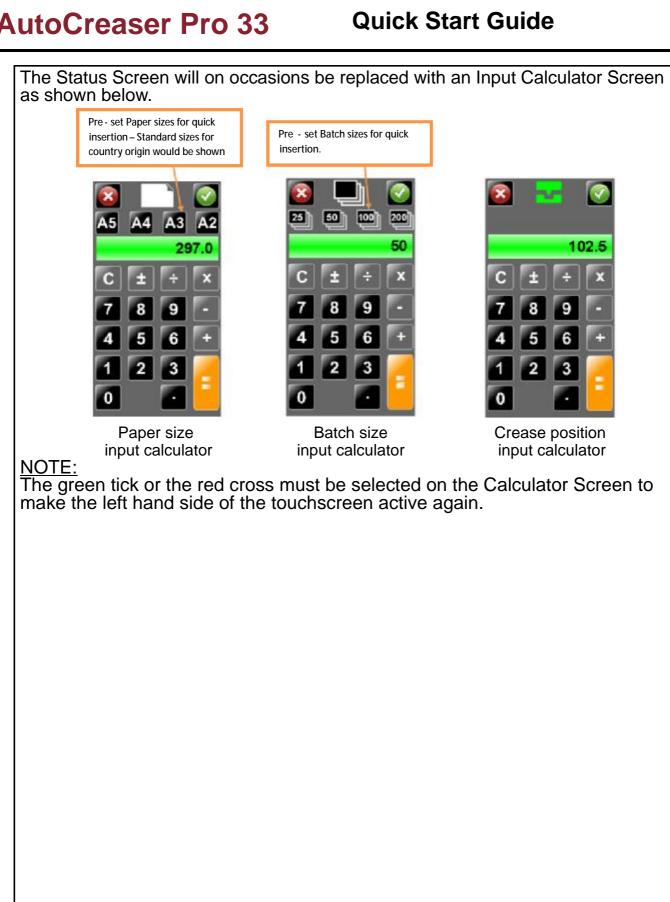




Quick Start Guide

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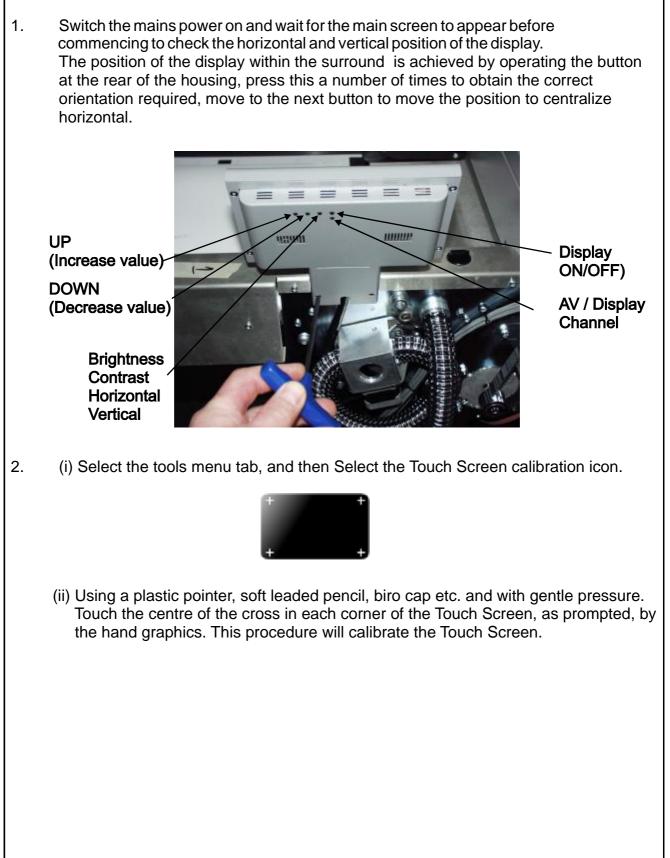
Quick Start Guide

Tools Screen Machine Speed Adjustment:-Speed setting 3 will give the fastest throughput of stock through the machine. Use speed setting 1 or 2 for troublesome stocks, or to synchronise the speed of the AutoCreaser to a Morgana Autofold Pro, when they are used together. Click on Up Arrow to put Anvil into Top Dead Centre position Inch paper in direction 1 (TDC) of arrow to clear jams 2 21 3 Inch paper in direction **Clean Lead Edge Sensor** of arrow to clear jams Î, mm_tinch **Touch Screen Calibration** Change Machine measurement Clicking this icon will settings, Imperial / Metric See Page 19 show Machine program revision & **Touch Screen** software revision. 19.0.2.15 ×1 Touch screen software et.o 0 3 version Main Processor Program version

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Touch Screen Calibration.

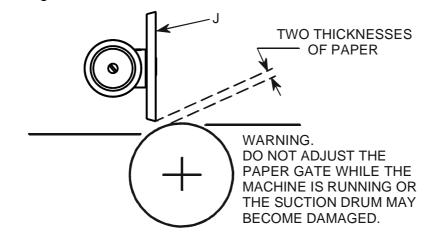


Setting the Machine

Adjusting the Paper Gate

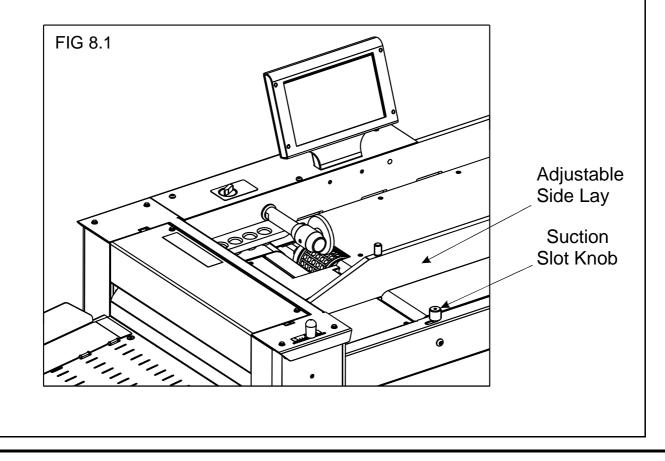
Set the height of the Paper Gate to approximately two thicknesses of paper, by turning the disc j. An excessive gap is a most likely cause of double sheet feeding. This setting is only intended as a guide, for instance, sheets with an upward curl will

require this setting to be increased.



Setting the Suction Slot

The suction slot is located inside the vacuum roller and can be adjusted by releasing and moving the suction knob horizontally in either direction to the required position. For light stocks set the knob to the left and for heavier stocks set the knob to the right.



AutoCreaser Pro 33 Operating the Autocreaser Pro 33

Setting the Adjustable Side Lay

Place the paper stack on to the loading table and slide up to the fixed side lay and paper gate. Release the clamps located at each end of the side lay and slide up towards the paper stack as demonstrated in fig 8.1. Allow a gap of approximately 0.5mm (1/64 inch) between the paper and the side lay.

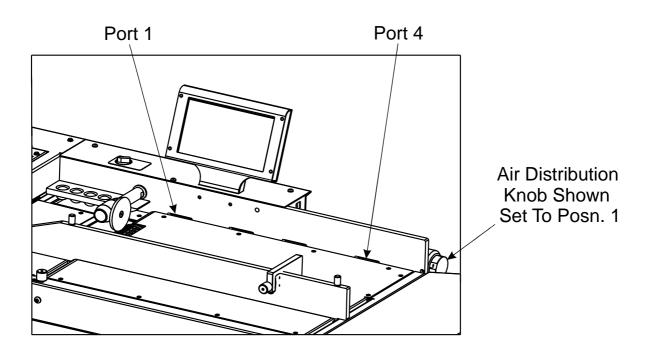
Setting the Back Stop

Position the backstop and slide up towards the paper stack allowing a gap (as specified in the above step).

Setting the Air Distribution

Depending on the length of the sheet to be creased, the air distribution knob can be rotated to various positions in order to supply air to different ports. Position 2 is recommended for most sheet sizes. However, a better result may be obtained by using the settings below or by experimentation.

- **Position** 0 For sheets longer than A3 (17") in order to supply air to the centre of the stack, ports 2 and 3 open.
 - 1 For A5 sheets or 8 inches long, ports 1 and 2 open.
 - 2 For A4 sheets or 11 inches long, ports 1 and 3 open.
 - 3 For sheets longer than A3 (17") in order to supply air evenly along the stack, ports 1 and 4 open.



Setting the Air Separation Pressure

To control the amount of air supplied to the ports, the air separation knob can be rotated clockwise to decrease the pressure or anti-clockwise to increase the pressure.

Setting the Roller Tilt Mechanism

The roller tilt mechanism has been designed to compensate for when the creasing position on the sheet is not square. This could be due to an inaccuracy in the media or if the roller tilt mechanism has been incorrectly set. The mechanism will be set to zero (square) when the machine is supplied.

To set the mechanism, unlock the roller tilt knob located below the roller tilting handle by turning anti-clockwise. Move the roller tilt handle left or right in order to compensate for any inaccuracy. When the position is set, ensure to lock the roller tilt knob before operating the machine. Repeat the above procedure until the creasing position is square.

Setting the positions of drive wheels and hubs

It is important that the drive wheels and drive hubs on the roller shafts are arranged evenly across the width of the media being creased. This is done to ensure that the media is accurately driven and supported through the rollers.

The drive wheels and hubs are fixed to the rollers by means of a grub screw. To locate this grub screw the rollers can be rotated by operating the motor manually.

DO NOT ROTATE THE DRIVE ROLLERS BY HAND.

To operate the motors manually, switch the machine 'on' at the Emergency Stop switch.

Select the Tools tab ______ that shown below.

at the bottom of the touch screen, the display will change to

- 1

i.

Inch paper in direction of arrow to clear jams

Press the system switch down and then select the right or left arrows, to rotate the rollers in short pulses.

mm-inch

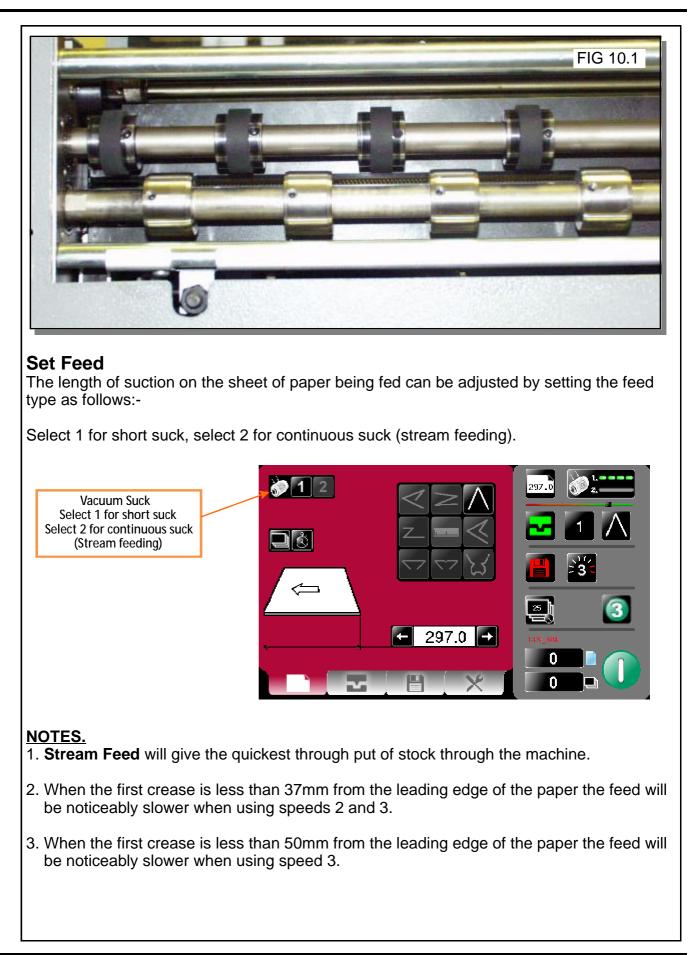
Lift the exit guard to see if the grub screws in the drive wheels and hubs can be seen. If the grub screws cannot be seen, lower the exit guard and rotate the rollers by selecting the right or left arrows. Loosen the drive wheels and hubs with a 2mm allen key. Arrange the drive wheels and hubs as shown in FIG 10.1. In order to avoid marking on some types of media ensure a gap between the drive wheels and hubs.

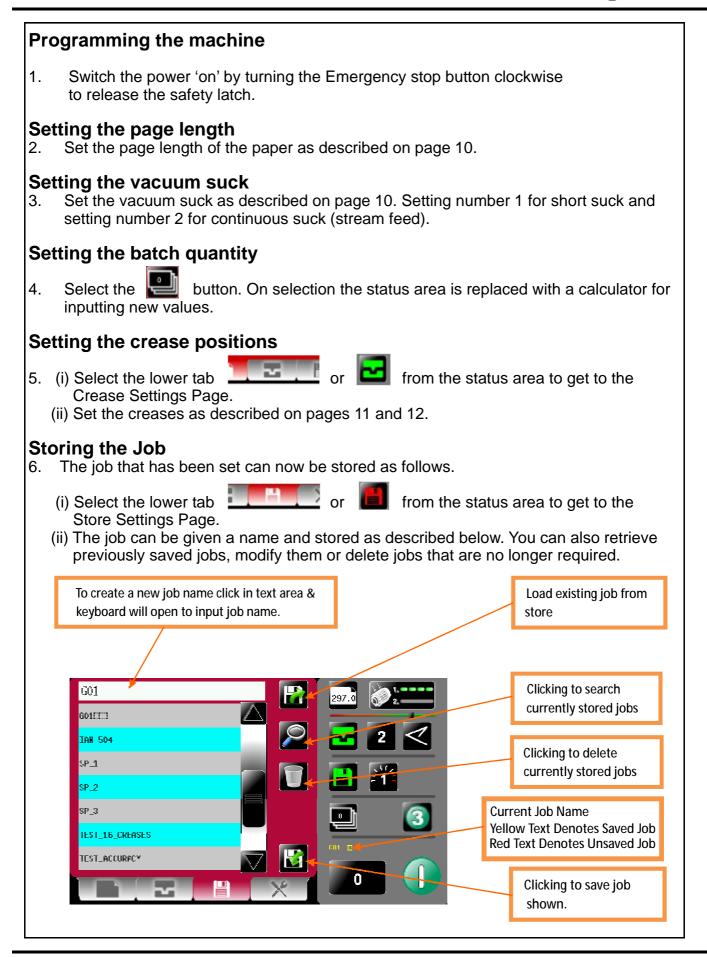
This procedure should be repeated when installing perforating blades and anvils onto the drive wheels and hubs.

Inch paper in direction

of arrow to clear jams

AutoCreaser Pro 33 Operating the Autocreaser Pro 33

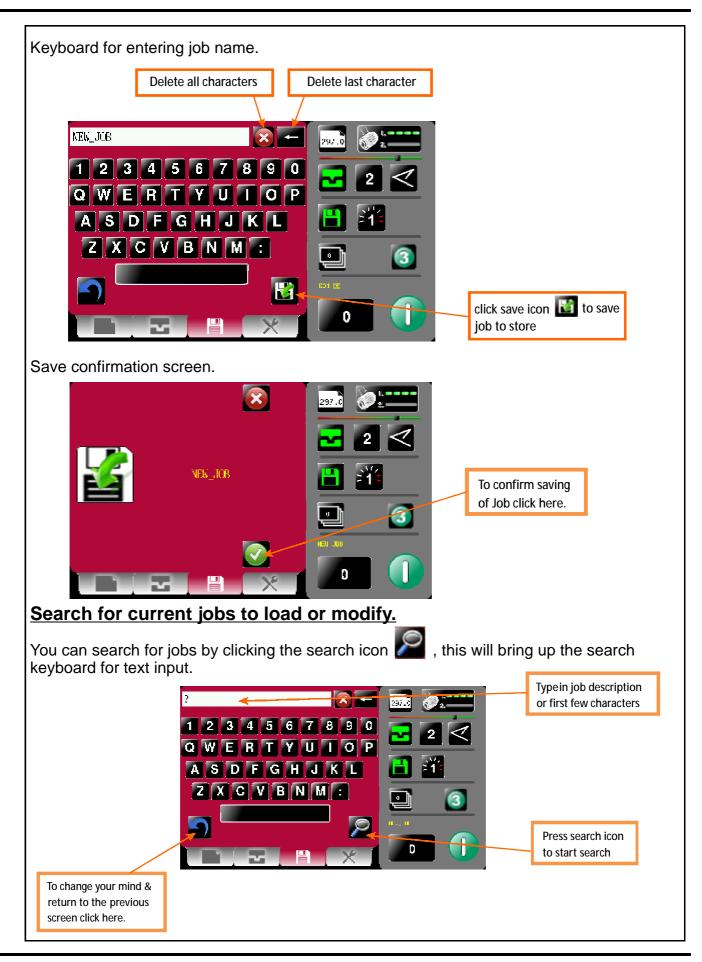




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CREASING

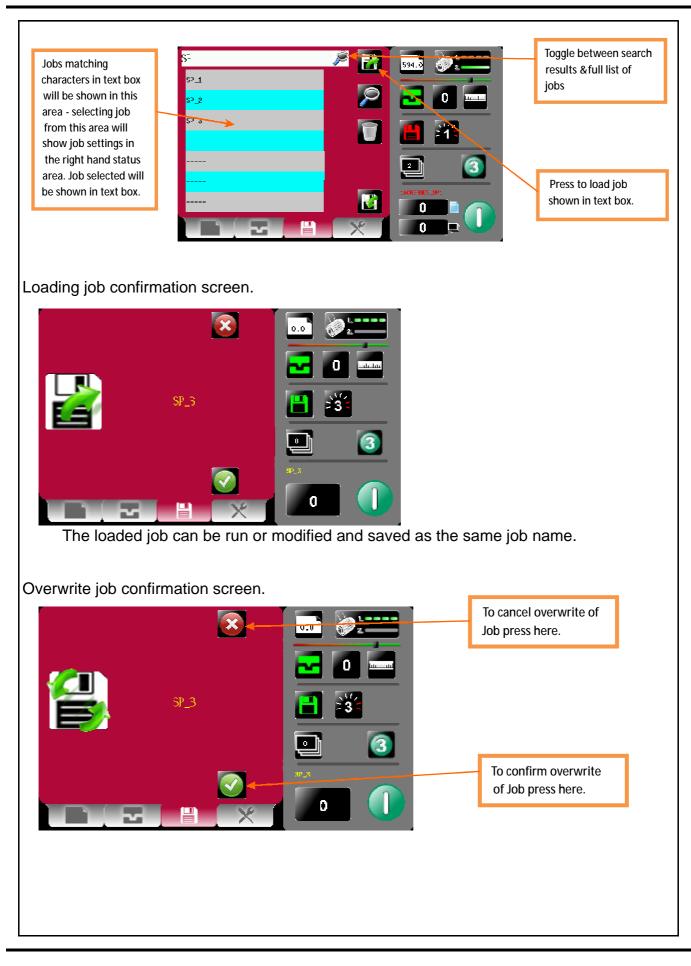
AutoCreaser Pro 33 Operating the Autocreaser Pro 33



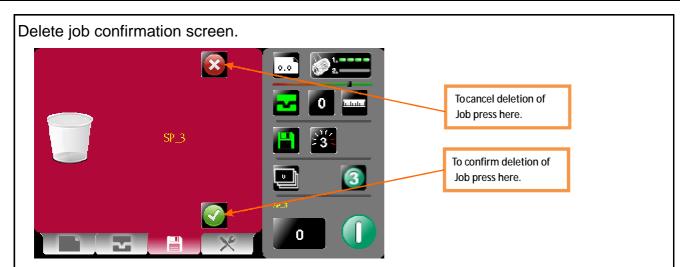
SYSTEM

Operating the Autocreaser Pro 33

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AutoCreaser Pro 33 Operating the Autocreaser Pro 33



Running the machine

Run the job as described on page 13. The machine will complete its creasing operation if a sheet has already been fed through the paper gate.

Paper jamming

In the event of a paper jam occurring whilst the machine is operating, select the Tools

tab

at the bottom of the touch screen, the display will change to that shown

below. Press the system switch down and then select the right or left arrows, to inch the paper forwards or backwards.



Setting the machine to operate in manual sheet feed mode

In order to feed heavy stock, very small or very large sheets, embossed or even irregular shaped sheets, it may be necessary to feed the sheets manually. The machine can be programmed and set up in exactly the same way as explained when operating the machine automatically. However, the paper gate must be raised to its highest position for the sheets to be fed freely. Operating the machine in manual sheet feed mode will also require the suction length to be continuous in order to accommodate various types of stock. Therefore, the feed should be set to **Stream Feed** (Vacuum Drum position 2) see page 10. The machine can now be started by activating the System switch to 'on'. Do not activate the Compressor switch.

Select the

icon on the touch screen and begin to slide the sheets individually through

the paper gate until they are driven by the drive belts.

System Switch off.

To stop feeding the sheets, select the **()** icon on the touch screen and switch the



The stacker unit on the machine is used to catch the sheets once they have been creased or perforated.

Setting the Stacker assembly

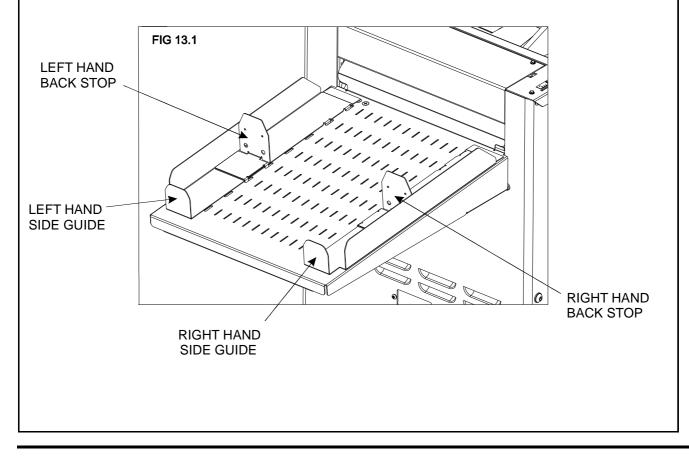
1. Assemble the stacker unit to the machine as shown in fig 13.1 below.

Important

Ensure that the stacker unit has been assembled to the machine properly. However, if it has not, the connection on the magnetic switch will be broken and the machine will not operate (see Trouble shooting pages for details).

There are two side guides on the stacker unit; a left handed (fixed) guide and a right handed (movable) guide held on by a magnetic strip. There is also a left hand extension guide. The guides will control the way in which the paper is collated by setting their positions on the stacker bed.

- 2. Place a single sheet (from the stack to be creased / perforated) on to the stacker bed against the fixed 'left hand' guide.
- 3. Position the 'right hand' side guide on to the stacker bed leaving a minimum clearance of approximately 1mm each side of the sheet.



AutoCreaser Pro 33 The Stacker Assembly

- 4. Whilst the sheet is between the two guides on the stacker bed, set the distance between the top of the sheet and the backstop flanges to approximately 5mm.
- 5. For shorter sheets, the back stop can be used (as shown in FIG 13.1) to adjust the position of the paper stack.



<u>TIPS</u>

I The magnetic back stop supplied with the machine can also be used as a tool holder as demonstrated in the photograph (left).

Once the machine is set-up, the Autocreaser Pro 33 can be used to perforate or crease.

<u>Note</u>

- 1. Perforating and creasing can be carried out simultaneously. However, if any adjustment is made to the roller tilt mechanism in order to compensate for the perforation line being 'out of square', this may effect the accuracy of the crease. If this occurs creasing and perforating must be carried out as separate operations.
- 2. By adjusting the outfeed drive tyres relative to the drive hubs it is possible to stear the sheet, (i.e. By placing the tyre on top of the hub one side of the paper will stear faster on that side).

The components and tools required to install the perforator are contained in the despatch kit supplied with the machine, they are listed below.

- 1 off Set of standard perforation '56 tooth' blades.
- 1 off Set of standard hardened anvils.
- 1 off Perforator stripper.
- 1 off 3mm bondhus wrench / allen key
- 1 off 2mm bondhus wrench / allen key



The perforator blades are split into two matching halves and are fitted to the drive wheels as shown in the photograph using the four screws supplied.

A hardened anvil is fitted to the drive hub as shown in the photograph also using the four screws supplied. Again the anvils are made from matching halves.

Important: The perforator blades are very sharp and care must be taken whilst handling. Do not mix the matching pairs of blades or anvils.

Perforating 'Spares' kits

For perforating and other types of paper, various spares kits are available which can be assembled to the machine in the same fashion. They are listed below along with a range of scoring wheels,

| Perforating blades | 56 teeth | Part Number | 1-99-41 | - | Standard stock / fine perforations. |
|--------------------|----------|-------------|---------|---|--|
| | 28 teeth | Part Number | 1-99-12 | - | Medium stock / medium perforations. |
| | 20 teeth | Part Number | 1-99-10 | - | Heavy stock / coarse perforations. |
| Anvils | Standard | Part Number | 1-99-35 | - | For all blade types |

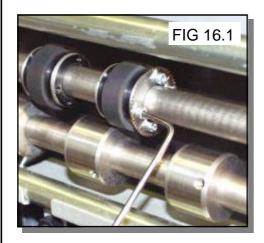
All of the blades and anvils are supplied with fixings.

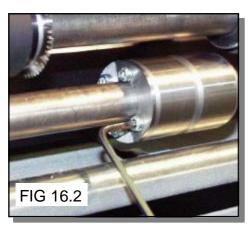
*Perforator stripper Standard Part Number 78-013

*It is recommended that for multiple perforations, a separate perforator stripper is used for every perforating blade set fitted in the creasing unit.

Setting the machine

- 1. Turn the mains supply to the machine 'off'.
- 2. Remove the stacker unit and open the exit guard.
- 3. Locate and remove the blades / anvils from the despatch kit supplied with the machine.
- 4. Using the 2mm allen key (supplied), loosen the drive wheel that is to accommodate the blades.
- 5. Slide the drive wheel away from any obstructing drive wheels or hubs in order to mount the blades.





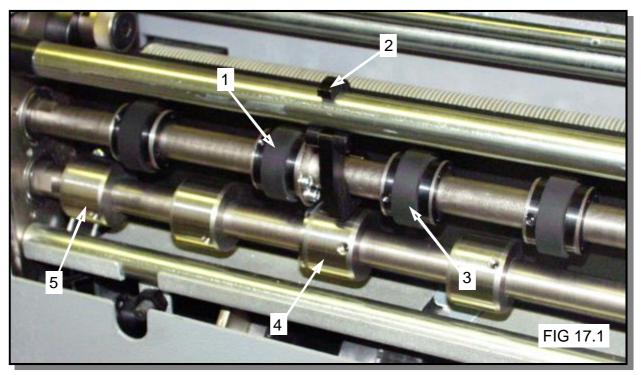
- 6. Using the 2.5mm allen key (supplied), take one of the matching pairs and mount on to the drive wheel. Do not secure the blade.
- 7. Mount the other matching pair to the drive wheel as shown (fig 16.1). Secure the blades to the wheel ensuring not to over tighten grub screw.
- 8. Mark on a single sheet the desired perforating position. Feed the sheet through the machine manually until the mark can be seen. Use this mark to assist in fixing the position of the perforating drive wheel to the roller drive shaft.
- 9. Using the 2mm allen key, loosen the drive hub nearest the perforating drive. Slide the drive hub away from any obstructing drive wheels or hubs in order to mount the anvils.
- 10. Using the 2.5mm allen key, take one of the matching pairs of anvils and mount to the drive hub. Do not secure the anvil.

SYSTEM

- 11. Mount the other anvil ensuring that they have matched on the drive hub. Secure the anvil to the hub ensuring not to over tighten grub screw as shown in fig 16.2.
- Slide the drive hub towards the perforating drive wheel until there is a clearance 12. of 0.5mm.
- 13. To prevent damage to the blades or the anvils, do not force the drive wheel against the hub.
- 14. Fix the perforator stripper adjacent to the drive wheel and blade as shown.
- 15. Operate the machine and test the perforations for form.

It is important that the drive hubs are arranged evenly across the width of the paper in order to reduce the risk of jamming.

For multiple perforations repeat the above procedure.



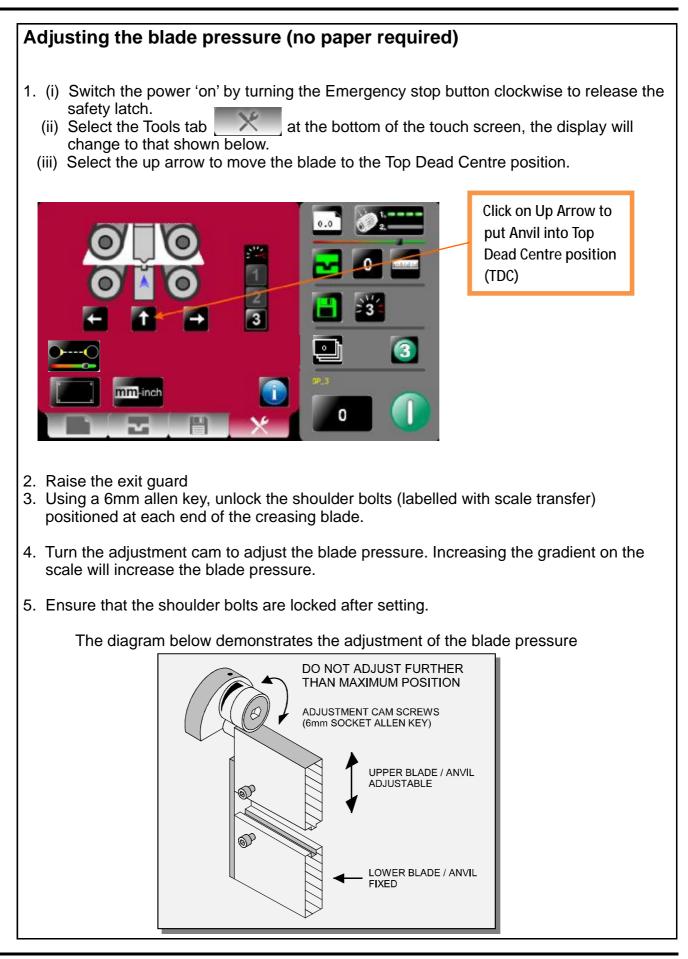
Demonstrates a typical set-up for perforating sheets. Fig 17.1

- 1 Perforating drive wheel with mounted blades
- 4 Drive hub with mounted anvils

2 - Perforator stripper 3 - Standard drive wheel

- 5 Standard drive hub
- Always remove blades and anvils once the perforating operation has been completed to avoid marking on digital or delicate media.

AutoCreaser Pro 33 The Blade Assembly

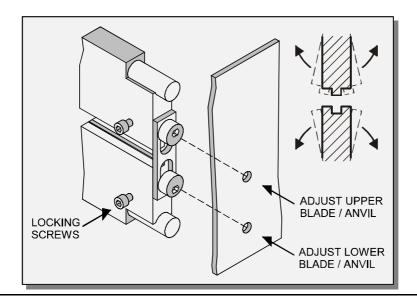


Adjusting the blade alignment

It is extremely important that the blade and anvil assembly within the creasing unit is correctly aligned. Misalignment of the blade or anvil can lead to damaged profiles and subsequently poor quality creasing so it must, therefore, be corrected immediately. If the blade set is misaligned, the media being driven will be subject to scoring or even tearing at any point along the crease line. **Please note that to avoid damage to the blade set, adjustment should only be made in small increments.** The below sketch demonstrates how the blade alignment can be carried out.

Adjustment can be made at either of the blade or anvil. The two clearance holes positioned above the roller tilt mechanism are the front alignment (one for blade, one for anvil). The two holes are repeated on the back of the machine for the back alignment.

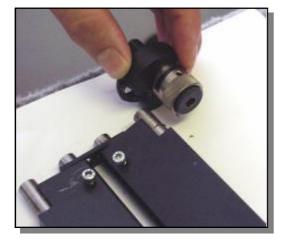
- 1. Remove the stacker unit.
- 2. Unlock and centralise the roller tilt mechanism in order to locate the heads of the front alignment screws.
- 3. Using a 3mm allen key, loosen the cap head type locking screws located on the front face at both ends of the blade /anvil as shown below.
- 4. Using a 4mm allen key, locate the two front or back alignment screws in the side frame in order to adjust the blade / anvil.
- 5. The upper screw of the two, will adjust the upper blade / anvil whereas the lower screw will adjust the lower blade / anvil both in very small increments.
- 6. In order to obtain the required position, adjust either the blade or the anvil by a small amount and then operate the machine to test the form of the crease. Repeat the exercise until centralisation is located.
- 7. Using a 3mm allen key, lock the cap head type screws (as per step 3) on both the upper and lower blade / anvil.



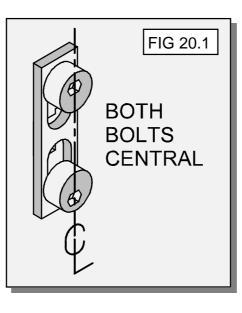
AutoCreaser Pro 33 Replacing Blade Set

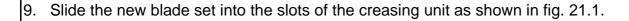
- 1. Before removing the blade assembly, ensure that the lower blade / anvil is NOT at 'top dead centre', Switch the machine off.
- 2. Remove the stacker unit and lift the exit guard.





- 3. Using a 6mm allen key, loosen the socket head screws located inside the blade adjustment cams. Remove the screws and the blade adjustment cams.
- 4. Insert the blade extractor tools (70-055-01 & 70-055-02) into the holes in the adjustment links, as shown. Push downwards on the handles of the blade extractor tools to release the blade assembly from the power links.
- 5. Slide the blade assembly out of the creasing unit and lay it on a flat surface.
- 6. Slide the adjustment links away from the dowels located in the ends of the blades / anvils as shown in the photograph (left)
- 7. Place the new blade set into position. Check that the eccentric shoulder bolts on the link plates have been positioned as shown in fig 20.1.
- 8. (Upper blade / anvil only) Slide the adjustment links onto the dowels.



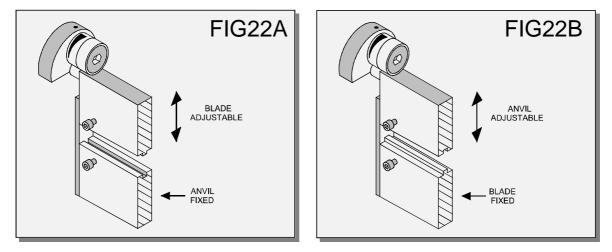




NOTE.

The blade set can be fitted with the ANVIL at the bottom or with the ANVIL at the top. The blade set is supplied from the factory with the ANVIL at the bottom as shown in FIG22A.

The blade set can be changed to have the ANVIL at the top (as shown in FIG22B), this can improve the repeatability of the fold relative to the crease for certain fold types or when using lighter stocks.



Locate the blade extractor tools into the holes in the adjustment links as shown. Pull the handles of the blade extractor tools upwards to engage the blade assembly back into the power links.

10. Set the cam graphics for both ends of the blade / anvil to their lowest point on the scale (ie. When the mark on the scale reaches the mark on cam holder) Fasten the socket head screws on the adjustment cams until they are tight.

AutoCreaser Pro 33 Replacing Blade Set

- 11. Push the exit guard down and replace the stacker assembly before operating the machine.
- 12. Switch the machine on and test the crease for form.

If the pressure and the alignment of the crease is not to a satisfactory level, see pages 33 - 35 to adjust the creasing line.

'Spares' kits

In the event of any damaged or lost components within the blade assembly, spares kits are available on request. However, components within the blade set can not be ordered separately is single blade or anvil.

The following Blade sets are supplied with the Autocreaser Pro 33 as standard.

Standard Blade set

Consisting of a standard blade and anvil, blade brushes, blade links and alignment bolts.

Part number 76 - 213 - 01

When running lighter stocks it is recommended that an **Extra Narrow Blade Set** is used, this can be purchased from Morgana Systems Ltd, **Part number 76-213-03**.

Paper crease out of square

- Check that the sheets are all square and exactly the same size before loading the stack on to the table.
- Check that the roller tilt mechanism is correctly set and locked in position.
- Check that the adjustable side lay has been correctly positioned ie. No further than 0.5mm from the paper stack.

Paper jamming

- Check that the leading edge of the paper is not being damaged by the paper gate. If this is occurring, check that the suction slot and the paper gate have been correctly set.
- Check that the first crease position is not too close to the leading edge of the paper. A minimum distance of 32mm is recommended.

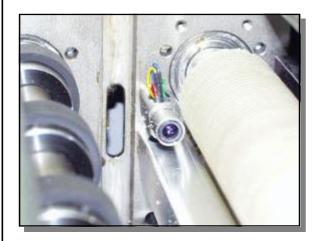
Machine will not start

- Check the power supply to the machine.
- Check that the emergency stop button has been released.
- I Check that the exit guard is down.
- I Check that the stacker unit is located correctly and has not been disconnected from the magnetic switch.
- I Check that the lower blade / anvil is connecting to the home switch (mounted below the lower blade / anvil).

Paper not feeding

- Check that the paper stack is not too high or too heavy for the feeder. The height of the paper stack should be defined by the weight and the size of the stock being creased.
- I Ensure that the adjustable side lay is not pressed against the paper stack. However, if the clearance between the adjustable side lay and the paper stack is too great, the air supply will escape instead of blowing through the paper thus making it difficult to feed.
- I Check that the clearance between the paper gate and the suction roller is not set too low.
- I On digital media, the feeding performance may be improved if the leading edge of the stack is trimmed before loading onto the Machine.

- I Check that the air distribution has been correctly set.
- I Check that the air separation has been set high enough to feed the sheets.
- For heavy stocks, very small or very large sheets, embossed or even irregular stock, it may be required to feed the sheets manually see page 25 for instructions.



Machine not counting

Open the exit and remove the blade set (see pages 35-36) to access the dual sensor post located in between the drive rollers. Using a soft brush, clean the visible sensor on the end of the post. Use the brush to clean the sensors between the post and the bottom paper guide which are not visible. Photograph (left) shows the dual sensor post containing the sensors.

Paper jammed under paper gate.

If paper gets jammed under the paper gate the vacuum drum will stop rotating, this is a safety feature. Remove the paper and re-adjust the paper gate.

Error Screens

• Sheet did not arrive.

If the machine stops and error message 01 is displayed on the touch screen, this indicates that the paper did not arrive at the end of the suck process; so the machine timed out. Press the green tick button and then press the start button.

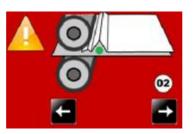


Paper Crunch

If the machine stops and error message 02 is displayed on the touch screen, this indicates that a paper jam has been detected.

Press the system switch down and then select the right or left arrows, to inch the paper forwards or backwards. See page 27 that describes how to remove paper jams. Press the green tick button and then press the start button.

This error message could also mean that the crunch sensors are faulty or need cleaning.



Double Sheet Feed

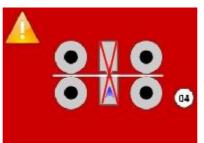
If the machine stops and error message 03 is displayed on the touch screen, this indicates that a double sheet feed has been detected. Check that the paper gate has been set correctly. Press the green tick button and then press the start button.



Error Screens (Continued)

Blade Not Home

If the machine stops and error message 04 is displayed on the touch screen, this indicates that the lower blade / anvil has not made contact with the HOME switch. i.e. blade still in top position. Switch the machine off and remove the blade set and ensure that the area is free from obstructions. Return the blade set to the creasing unit and switch the machine on. Operate the machine in the normal sequence, if the display continues to read error message 04 it is advised to contact a Service Engineer immediately.



Overlap

If the machine stops and error message 13 is displayed on the touch screen, this indicates that the 'Lead Edge Sensor' has seen a sheet subsequent to the first one as being longer. Again this could actually be a longer sheet, OR it could be a sensor problem (if it is a recurring problem). Check that the paper gate has been set correctly.



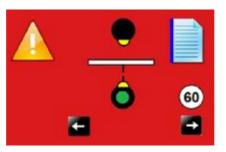
• Lead Edge Sensor Blocked

If the machine stops and error message 60 is displayed on the touch screen, this indicates that the lead edge sensor is blocked.

Press the system switch down and then select the right or left arrows, to inch the paper forwards or backwards.

Press the green tick button and then press the start button.

This error message could also mean that the lead edge sensors are faulty or need cleaning.

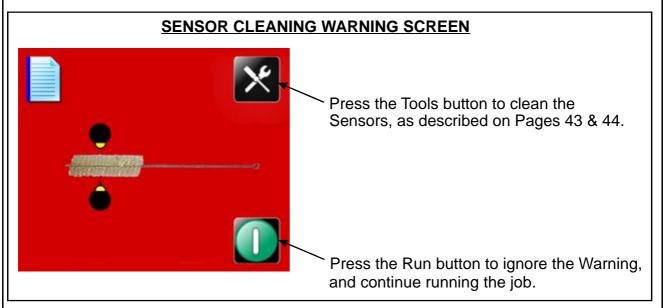




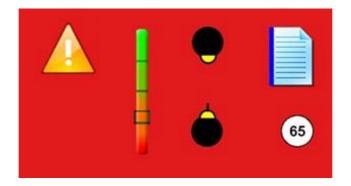
Error Screens (Continued)

• Clean Lead Edge Sensor - Warning Screens.

1. The Clean Lead Edge Sensor warning screen, shown below, will appear when the Run button is pressed and the strength of the Lead Edge Sensor Beam is at about 50% (i.e. the slider is at about the mid-point position along the Indicator Scale).

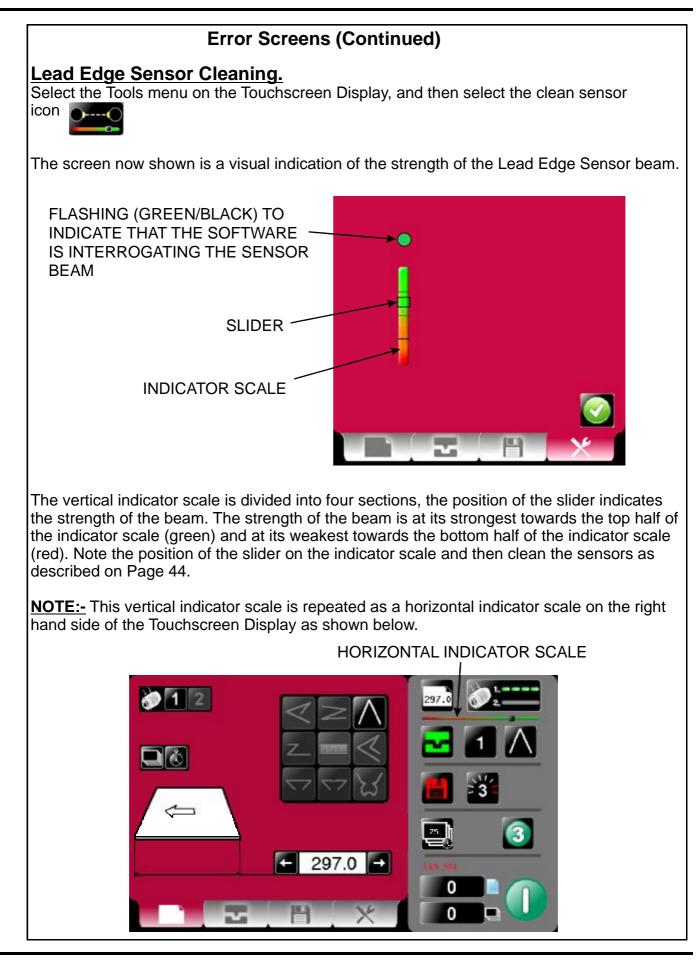


2. The Clean Sensor, Error 65 warning screen, shown below, will appear if the strength of the Lead Edge Sensor Beam is allowed to get down to about 25%. The Lead Edge Sensors should ideally be cleaned before this warning screen appears.



NOTE.

The Lead Edge Sensors can be cleaned at any time by selecting the Tools Tab at the bottom of the Touchscreen and cleaning the Sensors as described on Pages 43 & 44.

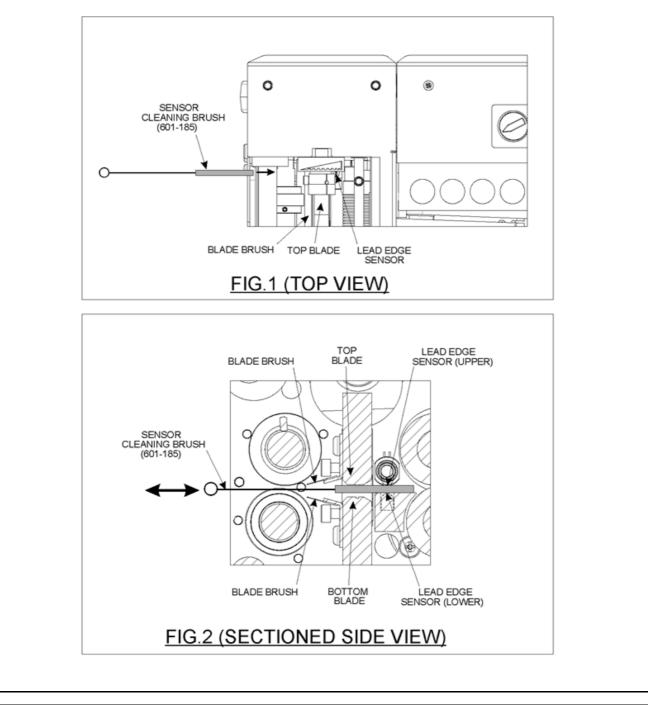


SYSTEM

Page 43

Error Screens (Continued)

To clean the lead edge sensors open the exit guard to expose the blade set. Using the Sensor Cleaning Brush (Morgana part number 601-185), supplied in the dispatch kit, insert the brush between the blade brushes and the top and bottom blades to reach the upper and lower lead edge sensors. (See FIG.1 and FIG.2 below). Move the brush backwards and forwards several times across the sensors to clean them. Note the position of the slider on the indicator scale; the slider should have moved nearer to the top of the scale, indicating that dust has been removed from the sensors. This sensor cleaning operation can be repeated again to see if the sensor beam strength can be further improved. The Sensors can also be cleaned with a can of compressed air purchased from Farnell (Farnell Part No. 166-3191), or an equivalent product.



Recommended weekly operator maintenance

- I Clean all sensors
- Clean in feed rollers and output drive hubs using the cleaning kit provided (Cleaning kit part number 90-018)
- I Remove and clean the blade assembly
- I With the blade assembly removed, clean the slots and surrounding area within the creasing unit.

Technician Maintenance

It is recommended that your machine is fully serviced at least once every six months by a factory trained Service Engineer.

| ITEM | PART NUMBER | QTY | DESCRIPTION | | |
|---------|----------------|-----|--|--|--|
| 1 | 70-170 | 1 | OPERATORS MANUAL - AUTOCREASER Pro 33 (CB) | | |
| | | | | | |
| 2 | 90-018 | 1 | ROLLER CLEANING KIT | | |
| | | | | | |
| 3 | 650-040 | 1 | POWER CORD CE UK C19 3Pin 16A 2.5Mtrs. | | |
| | | | | | |
| 4 | 617-003 | 5 | STEEL BALL - Ø20 | | |
| 5 | 78-007 | 1 | MAGNETIC BACK STOP ASSY. | | |
| 6 | 403-01-030-006 | 12 | SCREW - SOCKET CAP HEAD - M3 x 6 LG | | |
| 7 | 409-01-040-004 | 1 | SCREW - SKT. SET FLAT PT M4 x 4 LG | | |
| | | | | | |
| 8 | 620-007 | 1 | HEXAGON BALL DRIVER 2mm | | |
| 9 | 620-020 | 1 | HEXAGON BALL DRIVER 2.5mm | | |
| | | | | | |
| 10 | 620-004 | 1 | ALLEN KEY 4mm | | |
| | | | | | |
| 11 | 620-026 | 1 | BONDUS L WRENCH 4mm | | |
| 12 | 620-028 | 1 | BONDUS L WRENCH 3mm | | |
| 13 | 620-033 | 1 | BONDUS L WRENCH 6mm | | |
| | | | | | |
| 14 | 624-018 | 1 | DISPATCH BOX | | |
| | | | | | |
| 15 | 70-055-01 | 1 | BLADE EXTRACTION TOOL - OP SIDE | | |
| 16 | 70-055-02 | 1 | BLADE EXTRACTION TOOL - LAY SIDE | | |
| | | | | | |
| 17 | 08-041-02 | 1 | SLITTING ANVIL - UNDERSIZE. | | |
| 18 | 1-99-12 | 1 | SLITTER PERF BLADE 28T | | |
| | | | | | |
| 20 | 71-083-01 | 2 | OUTRIGGER FOOT | | |
| 20 | 401-02-050-008 | 2 | SCREW - PAN POZI TAPTITE - M5 X 8 LONG | | |
| <u></u> | +01-02-050-000 | 2 | | | |

WARNING

THE BLADES FOR ANVIL AND PERFORATING SETS ARE SUPPLIED AS MATCHING PAIRS AND SHOULD NOT BE MIXED OR LEFT UNPROTECTED OR SERIOUS DAMAGE MAY RESULT.

AutoCreaser Pro 33 ACCESSORIES AND OPTIONS

| ITEM | PART NUMBER | DESCRIPTION |
|------|-------------|--|
| 1 | 1-99-10 | PERFORATING BLADE SET 20T (Card) |
| 2 | 1-99-12 | PERFORATING BLADE SET 28T (Single sheets) |
| 3 | 1-99-41 | PERFORATING BLADE SET 56T (Fine perforations |
| 4 | 1-99-35 | ANVIL SET USED WITH ABOVE BLADE SETS |
| 5 | 76-213-03 | BLADE SET - EXTRA NARROW |
| 6 | 70-082-02 | ANTI-STATIC KIT |
| 7 | 94-073-02 | SIDELAY EXTENSION - NARROW SHEET |

ACCESSORIES....May be obtained from your dealer and fitted to your machine using the instructions supplied, or by reading your operators manual.

OPTIONS....

....May also be obtained and fitted by your dealer. You should not attempt to fit options as specialist tools and knowledge are required.

RECOMMENDED SPARES

morgana

| PART NUMBER | DESCRIPTION |
|-------------|---|
| 93-021 | FEED BELT |
| 609-011 | 'O' RING Ø20 |
| 94-028 | LOCK PIN ASSEMBLY - Side Lay |
| 613-365 | EMERGENCY STOP SWITCH |
| 652-011 | SWITCH - LOW CURRENT COIL - BLACK ROCKER |
| 75-500-05 | MINI ITX MOTHERBOARD - A/C PRO 33 |
| 75-455-01 | CONTROL PCB ASSEMBLY |
| 174-06-01 | SMALL STEPPER DRIVER - LOW POWER - PCB ASSY |
| 174-19-01 | RS232 ADAPTOR PCB ASSY |
| 125-21-02 | DUAL STEPPER DRIVE PCB ASSEMBLY |
| 75-06-02 | TOUCH SCREEN ASSEMBLY - 7" |
| 76-272 | PSU ASSEMBLY - ATX12V - 300W |
| 655-015 | PSU UNIT - SWITCH MODE - 24V |
| 655-016 | PSU UNIT - SWITCH MODE - 48V |
| 76-156 | BLADE POSITION SENSOR |
| 76-155 | PAPER JAM SENSOR ASSEMBLY |
| 76-154 | UPPER SENSOR ASSEMBLY |
| 76-156 | BLADE POSITION SENSOR-LEAD |
| 76-255 | LEAD - FOLD COMPENSATION SENSOR |
| 76-230-03 | LEAD - PAPER GUIDE SENSOR |
| 98-013 | ANTI-STATIC BRUSH |
| 609-022 | 'O' RING Ø32 |
| 606-035 | KNOB - Roller Tilt |
| 76-109 | POWER LINK BEARING |
| 76-213-01 | BLADE SET - Standard |
| 76-042 | DRIVE BELT - FEED BED |
| 607-017 | TIMING BELT - 120XL 037 |
| 607-042 | TIMING BELT 160XL |
| 607-048 | TIMING BELT TWIN GRIP - 200 DXL 050 |
| 608-019 | SHOULDER BOLT |
| 76-082 | PERFORATOR - DRIVE HUB ASSEMBLY |
| 175-28-01 | BUTTERFLY VALVE - STEPPER |
| 76-240 | STEPPER DRIVE MOTOR ASSEMBLY |
| 76-241 | STEPPER BLADE MOTOR ASSEMBLY |
| 75-425 | LEAD VACUUM DRUM ASSEMBLY |
| 75-530-01 | TRANSFORMER ASSEMBLY 230V TO 110V |

AutoCreaser Pro 33 RECOMMENDED SPARES

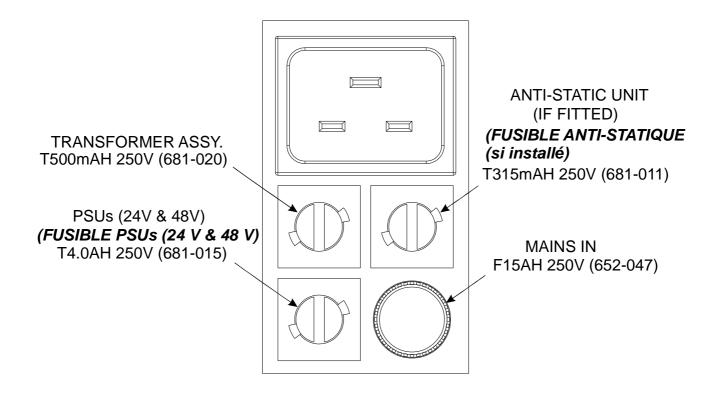
| PART NUMBER | DESCRIPTION |
|-------------|--|
| 76-083 | PERFORATOR - DRIVE WHEEL |
| 76-175-01 | INPUT ROLLER - Lower |
| 76-177-01 | INPUT ROLLER - Upper |
| 76-019-03 | OUTPUT SHAFT |
| 78-013 | PERFORATOR STRIPPER ASSEMBLY |
| 613-351 | MICRO SWITCH - Guard Circuit |
| 613-191 | MICRO SWITCH - Home Circuit |
| 78-071-01 | ACTUATOR ASSY STACKER |
| 602-085 | BEARING-DRAWN CUP NEEDLE ROLLER Ø10xØ14x10 |
| 681-020 | FUSE 500mA - Anti-surge |
| 681-011 | FUSE 315mA - Anti-surge |
| 681-015 | FUSE 4A - Anti-surge |
| 652-047 | FUSE 15A - Anti-surge |
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NOTE.....

The items listed above represent parts which are subject to wear, loss, or accidental damage, and are included for your guidance only.

Replacement of parts fitted to your machine require specialist knowledge and should therefore be entrusted to your dealer.

FUSE POSITIONS & RATINGS (POSITION ET CLASSIFICATION DES FUSIBLES)



PRODUCT RECYCLING & DISPOSAL

European Union

Disposal Information for Commercial Users



Application of this symbol on your equipment is confirmation that you must dispose of this equipment in compliance with agreed national Procedures.

In accordance with European legislation end of life electrical and electronic equipment subject to disposal must be managed within agreed procedures.

Prior to disposal please contact your local dealer or representative for end of life take back information.

Disposal Information for Domestic Users



Application of this symbol on your equipment is confirmation that you should not dispose of the equipment in the normal household waste stream.

In accordance with European legislation, end of life electrical and electronic equipment subject to disposal must be segregated from household waste.

Private households within EU Member States may return used electrical and electronic equipment to designated collection facilities free of charge. Please contact your local disposal authority for information.

In some Member States when you purchase new equipment your local retailer may be required to take back your old equipment free of charge. Please ask your retailer for information.

Other Countries

Please contact your local waste authorities and request disposal information.



REVISION HISTORY

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| Rev. | Mod No. | Mod Description | Date | Mod By |
|------|---------|---|----------|--------|
| 4 | ECO2809 | Screen shot graphics changed to show the Lead Edge Sensor Indicator | | |
| | | Bar, on all relative pages. New pages inserted to describe how to use the | 02/01/13 | BAL |
| | | Cover Crease Mode for Perfect Bound Covers. (Pages 14 & 15). New | | |
| | | pages inserted to show the Clean Lead Edge Sensor Warning Screens | | |
| | | and how to clean the Lead Edge Sensors. (Pages 42 to 44) | | |