

ISSUE 1 MAY 2010

174-025

INTRODUCTION & SPECIFICATION		
The Morgana DigiFold Pro	PAGE	4
SAFETY Do's & Don'ts		5
THE Digifold Pro		
Labeled Photograph		7
THE SWITCH PANEL		
Detailed diagram and description Features on the switch panel		8 9
OPERATING THE DigiFold Pro Adjusting the Papergate Setting the Suction Slot Setting the Vacuum Bleed Setting the Adjustable Side Lay Setting the Back-Stop Setting the Air Distribution Setting the Air Separation Pressure Setting the Positions of the Drive Wheels and Hubs		10 10 11 11 11 11 11 12
TOUCHSCREEN OPERATION Touchscreen Layout Paper Settings Page Roller Gap Set & Tilt Mechanism Page <u>Crease Settings Pages</u> Creases in 'Set By Fold' mode Creases in 'Set By Position' mode		14 15 17 20 21
Fold Settings Pages Folds in 'Set By Fold' mode Folds in 'Set By Position-' mode Example of 'Set By Position' mode Delivery Settings Page Status Screen Running the Job Setting the machine to operate in manual sheet feed Store Pages Tools Menu	mode	23 24 26 27 29 30 31 32 35
THE BLADE ASSEMBLY Adjusting the blade pressure		37

REPLACING CREASING BLADE SETS		
Installing new blade sets Spare Blades	PAGE	38 41
PERFORATING Equipment, Spares Setting the machine Recommended Position of the Drive Wheels and Hubs		42 43 44
REMOVING PAPER JAMS		45
TROUBLE SHOOTING Paper crease out of square Crease Position Inaccuracy Paper fold out of square Paper Jamming Machine will not start Paper not feeding Cracking of the printed material along the crease Using the Correct Blade Set		47 47 47 48 48 48 48 48
ERROR SCREENS 01 Sheet did Not Arrive 02 Paper Crunch 03 Double Sheet Feed 04 Blade Not Home 05 Blade Busy 06 Blade Home Failure 1 07 Blade Home Failure 2 08 Flying Home Failure 09 Clip 1 NOT Clear 10 Clip 1 NOT Blocked 11 Clip 2 NOT Clear 12 Clip 2 NOT Blocked 13 Overlap		50 50 50 51 51 52 52 52 52 53 53
DISPATCH KIT		54
ACCESSORIES AND OPTIONS		55
RECOMMENDED SPARES	56 ·	- 57
MACHINE CALIBRATION HISTORY SHEET		58
FUSE POSITIONS & RATINGS		59
PRODUCT RECYCLING AND DISPOSAL		60

morgana DigiFold Pro

INTRODUCTION AND SPECIFICATION

Digifold Pro is a registered trade mark of Morgana systems Ltd. The unique patented creasing and folding system, makes it possible to fold most delicate stocks from 0.11mm, up to 0.4mm thick. The **DigiFold Pro** reduces the possibility of scratching, marking or cracking appearing on the substrate, as is often associated with conventional folding machine methods.

It is **IMPORTANT** to note that to prevent cracking, when using dry ink or toner based print engines, the material <u>must</u> be fully acclimatised for at least 48 hours before putting an image onto the paper.

IMPORTANT the operating environment should be controlled to a temperature between 16° C and 27° C Maximum.

Specifica	
Feeding System	
Max. Sheet Size	.700mm x 385mm (27.5" x 15") [900mm x
	385mm (35.4" x 15") with Optional
	extension table].
Min. Sheet Size	.210mm x 140mm (8.3" x 5.5") (dependant
	on stiffness of paper and type of fold).
Max. Paper Thickness	
·	type of fold, and substrate).
Min. Paper Thickness	
	type of fold, and substrate).
Max. No. Creases per Sheet	
Max. No. Folds per Sheet	
Max. No. Stored Programmes	
Min. Repeat Crease Distance	
Min. Repeat Fold Distance	
Min. Crease Distance from Leading Edge	50mm (1.96")
Min. Fold Distance from Leading Edge	
Min. Crease Distance from Tail Edge	
Min. Fold Distance from Tail Edge	
Min. Fold Length	
Speed per Hour (A4 in half)	6000 sheets
Note: The production speed varies ac	
the fold type.	
Dimensions	L: 2020mm H: 1265mm W: 680mm
	L: (79.5") H: (49.8") W: (26.8")
Weight	. 190Kgs (+50Kgs packing)
Power Requirement	1 phase 220 / 240v
*As part of our continued product improvement	plan specifications and information
published in this manual are subject to change	• •
All specifications are dependent on application	
	, type of stock, temperature, this and print
engine used.	atad and upprinted atack
Specifications quoted were measured on uncoa E & OE.	

Safety Do's & Don'ts REGLES DE SECURITE : « A FAIRE » ET « A NE PAS FAIRE » Do - read this operator manual fully before operating the machine. Lire ce mode d'emploi avant d'utiliser la machine. Do - operate with the designated AC current only. Use an exclusive outlet, as overloading may cause fire or an electric shock. Respecter l'alimentation électrique indiquée. Brancher sur une prise séparée car une surcharge peut entraîner un incendie ou un choc électrique. Do - install the power cord out of the way to avoid a tripping hazard. Installer le cordon d'alimentation de manière à ne pas pouvoir trébucher par dessus. Do - make sure that the mains inlet connector is always easily accessible. Ménager un accès libre à la prise de courant. Do not - install the machine in an unstable place such that it tilts or shakes. Ne pas installer la machine sur une surface non plane, afin d'éviter qu'elle ne penche ou ne vibre. Do not - unplug the plug or unplug the power cord from the outlet with a wet hand, this can cause an electric shock. Ne pas installer la machine sur une surface non plane, afin d'éviter qu'elle ne penche ou ne vibre. Do not - unscrew and remove any covers from the machine, as it can cause an electric shock or iniurv. Ne démonter et enlever aucun carter de la machine, par crainte de décharge électrique ou de blessure. Do not - place receptacles containing liquids on any surface. Ne pas placer de récipient contenant un liquide sur la machine. Do not - adjust any part of the machine whilst rollers are running N'effectuer aucun réglage pendant que les rouleaux fonctionnent. Do not - operate the machine with loose or trailing clothing or loose hair. Ne pas porter de vêtements flottants et rassembler les cheveux longs lors de l'utilisation de la machine. Do not - under any circumstances adjust the paper gate when the machine is switched on. En aucune circonstance, régler le séparateur de papier lorsque la machine est branchée.

morgana



DigiFold Pro



SYSTEM



Features on the Switch Panel

System switch

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 Vacuum Bleed

Situated on the front of the feed table, the Vacuum Bleed Knob is used to allow more control of the suction on the vacuum drum.

When light weight paper is being fed through the machine turn the knob clockwise to reduce the possibility of marking, or damage to the leading edge of the paper.

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 10.1. 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 1** For sheets longer than A3 (17") in order to supply air to the centre of the stack, ports 2, 3 and 4 open.
 - **2** For A5 sheets or 8 inches long, ports 1 and 2 open.
 - **3** For A4 sheets or 11 inches long, ports 1 and 3 open.
 - 4 For A3 sheets or 17 inches long, ports 1 and 4 open.
 - 5 For sheets longer than A3 (17") in order to supply air to the ends of the stack, ports 1 and 5 open.
 - For sheets longer than A3 (17") in order to supply air evenly along the stack, ports 1, 3 and 5 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 positions of drive wheels and hubs It is important that the drive wheels and drive hubs, on the roller shafts, are arranged across the width of the media being creased; this is done to ensure that the media is accurately driven and supported through the rollers. A suggested layout, when Folding, is shown below (see FIG 15.1). The suggested layout, when perfing, is different, and is shown on page 44 (see FIG 38.1).

The drive wheels and hubs are fixed to the rollers by grub screws.





morgana

TOUCHSCREEN OPERATION

1. 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.

The touch screen is laid out into 3 main areas as shown below:





Batch size Selection. × 0 1 25 h 50 h 100 200 0 0 Pre-set Batch sizes for quick х insertion. ← 0.35 → 6 297.0 🗲 ← 1 2 3 0 Paper Thickness input 8: I 4/ 15 Paper Thickness Selection. 0 0.1 0.2 0.3 0.4 0 Pre-set Paper Thickness sizes 0 for quick insertion. ← 0.35 → 6 297.0 🗲 ÷ 3 1 2 0

morgana



Setting the Roller Gaps (Gap 1, Gap 2 & Gap 3)

The roller gaps can be adjusted to suit the thickness of the material being creased or folded; and the type of fold being produced. The roller gaps may also require adjustment if cracking of the print is noticeable. (see Fig 13.1 below).



The gap settings (Gap 1, Gap 2 & Gap 3) can then be adjusted by rotating the Roller Gap Set Knobs (see FIG 10.1 on page 10).

IMPORTANT.

When setting roller gaps, you <u>must</u> first adjust the gap to a value greater than that required and then decrease the value to the required setting. (Do not set the gap, from a value lower than that required).

PROCEDURE.

- (i) Measure the thickness of the sheet using a Digital Vernier Calliper.
- (ii) Set roller GAP 1 to the vernier reading.
- (iii) Set roller GAP 2 and roller GAP 3, (for the type of fold being produced), using the GAP SET GUIDE table shown below.

	GAP SET GUIDE			
	FOLD TYPE	GAP 3	GAP 2	GAP 1
Half Fold on Knife 1 →	Half K1	2X	2X	Х
Half Fold on Knife 2	Half K2	2X	Х	Х
	Letter	3X	Х	Х
	Concertina	3X	Х	Х
	Gate	3X	Х	Х
	Closed Gate	3X	Х	Х
	Engineering	3X	Х	Х
	Double	4X	2X	Х

Example 1:- When producing a **Half K1** fold, if GAP 1 is 0.2 (X) then set GAP 2 to 0.4 (2 x X) and set GAP 3 to 0.4 (2 x X).

Example 2:- When producing a **Gate** fold, if GAP 1 is 0.3 (X) then set GAP 2 to 0.3 (X) and set GAP 3 to 0.9 (3 x X).

	FOLD TYPES	
HALF	LETTER	CONCERTINA
GATE	CLOSED GATE	ENGINEERING
DOUBLE		

Page 18

Setting the Blade Tilt Mechanism

The blade 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 blade tilt mechanism has been incorrectly set. The mechanism will be set to zero (square) when the machine is supplied. The Blade Tilt Mechanism can be adjusted if necessary by rotating the Blade Tilt Knob (see FIG10.1 on page 10).

morgana



Page 20

FOLDING



morgana





SYSTEM

morgana



Page 24

FOLDING

SET BY POSITION

IMPORTANT NOTES.

1. If the fold is too near, or on the center line of the crease; the fold will try to fold diagonally across the crease profile and pull the fold out of square to the paper.

The best fold squareness is achieved when the fold is <u>not</u> on the center line of the crease, it should be to one side of the crease center line as shown below.

Thus for a crease setting of 100 for example, the fold should be set to a figure slightly smaller or greater than 100.



2. When using **Set By Position**, all dimensions are from the leading edge of the paper as shown in the example on page 26.

morgana



Page 26

FOLDING



Setting the Delivery Conveyor System.

WARNINGS:-

- 1. The Machine will <u>not</u> start if the delivery unit is not in its up position.
- 2. If the delivery is turned off the roller will feed to the far end of the belt conveyor and park there until turned on again.
- If the delivery is turned on when using the 'Set by Fold' mode of operation; the Roller Position and Shingle Length are automatically set, relative to the paper length and type of fold selected.
- 4. When using the 'Set by Position' mode of operation; the Roller Position and Shingle Length must be adjusted manually to suit the job. (See FIG 17.1 below).
- 5. When the optimum settings for the roller position and shingle length are achieved they can be stored with the job.





SYSTEM



Page 30

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.

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.

To stop feeding the sheets, select the *icon* icon on the touch screen and switch the System Switch off.

NOTE.

If the delay between feeding sheets is excessive, the system will time out.

morgana



Page 32



SYSTEM











FOLDING


- 1. (i) Switch the power 'on' by turning the Emergency stop button clockwise to release the safety latch.
 - (ii) Select the Tools tab _____ at the bottom of the touch screen, the display will change to that shown below.
 - (iii) Select the up arrow to move the blade to the Top Dead Centre position.



- 2. Raise the exit guard
- 3. Using a 5mm allen key, unlock the socket head screws positioned at each end of the creasing blade.
- 4. Rotate the blade adjustment cams until they are just tight, and then back off slightly before tightening the socket head screws.

The diagram below demonstrates the adjustment of the blade pressure



- 1. Before removing the blade assembly, ensure that the lower blade / anvil is at 'Top Dead Centre', see page 37.
- 2. Lift the top cover.
- 3. Using a 5mm allen key, remove the two socket head screws, one each end of the Blade Set, as shown in FIG 32.1 below.



4. Remove the Sheet Guide Assembly, by pulling upwards on the two flanges, one each end, as shown in FIG 32.2 and FIG 32.3 below. Flange Sheet Guide Assembly









5. The Blade Set can now be removed from the machine using the Blade Extractor Tools shown in FIG 32.4 below.



Blade Extractor Tools

FIG 32.4

Page 38



6. Insert the Blade Extractor Tools, one at each end of the Blade Set, as shown in FIG 33.1 below.



Note The Position of The Blade Extractor Tool Under The Lip of The Blade Adjuster Assembly

FIG 33.1

7. Lever the Blade Assembly in the direction shown in FIG 33.2 to unclip and release the Blade Set.



FIG 33.2

- 8. Slide the blade assembly out of the creasing unit and lay it on a flat surface.
- 9. Slide the blade adjustment cams and the blade adjustment assemblies away from the dowels located in the ends of the blades / anvils as shown in FIG 34.1 below.



6

13. Refit the Sheet Guide Assembly

14. Close the top cover

15. Switch the machine on and test the crease for form.

The following Blade sets are supplied with the Digifold 5000P as standard.

Standard Blade set

Part number 176-213-02

Consisting of a standard blade and anvil, pre-set for your machine.

Narrow Blade set

Part number 176-213-01

Consisting of a standard blade and a narrow anvil, pre-set for your machine.

NOTE.

Blade sets are individually set for each machine at the point of manufacture. Replacement Blade sets will therefore need to be set up by a factory trained service engineer.

Do not attempt to use a Blade set from another Digifold Pro.

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

<u>Notes</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 Scoring wheel
- 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	Standa	rd Part Number 1-99-35 - For all blade types

All of the blades and anvils are supplied with fixings.

*Perforator stripper Standard Part Number 177-05-01

*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. Open the perforator assembly to get access to the drive wheels and hubs.
- 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 half of the matching pair of blades and mount on to the drive wheel. Do not secure the blade.
- Mount the other half of the blade to the drive wheel as shown (FIG 37.1). 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 half of the matching pair of anvils and mount to the drive hub. Do not secure the anvil.
- 11. Mount the other half of the anvil to the drive hub as shown (FIG 37.2). Secure the anvils to the drive hub ensuring not to over tighten the grub screws.

SYSTEM

12. Slide the drive hub towards the perforating drive wheel until there is a clearance of 0.5mm (0.020"). 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. 4 5 FIG 38.1 Fig 38.1 Demonstrates a typical set-up for perforating sheets. **1** - Perforating drive wheel with mounted blades **4** - Drive hub with mounted anvils 2 - Perforator stripper 5 - Standard drive hub 3 - Standard drive wheel Always remove blades and anvils once the perforating operation has been completed to avoid marking on digital or delicate media.



Removing Paper Jams

In the event of a paper jam occurring, whilst running the machine, follow the steps described below to allow access to remove the jammed paper.

- 1. Unlock and lower the delivery unit, open the top cover and the perforator unit; see FIG 39.1 below.
- 2. If the paper is jammed in the fold rollers; try to rotate the top fold roller, using both hands. Position the thumbs under the tie bar and spread the fingers out above the tie bar.





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 adjustable side lay has been correctly positioned ie. No further than 0.5mm (0.020") from the paper stack.
- Check that the blade tilt mechanism is correctly set.

Crease Position Inaccuracy

- Check that the crease profile has not been set too deep.
- Check that the correct Blade Set is fitted. (Standard Blade Set for material thickness of 0.25mm (0.010") and above, Narrow Blade Set for material thickness of 0.25mm (0.010") and below).

Paper fold out of square

Note:- the best fold squareness is achieved when the fold is not on the center of the crease, but to one side or the other.

- Check that the fold is to one side of the crease center line.
- Check that the roller gaps are not too tight and squashing the crease.
- Check that the roller gaps are not too large and allowing the paper to slide (especially so on glossy paper).

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 / fold position is not too close to the leading edge of the paper. A minimum distance of 50mm (1.96") is recommended.
- If jamming is occurring in the Perforator adjust the Hubs (see Pages 12 & 44).

Machine will not start

- Check the power supply to the machine.
- Check that the emergency stop button has been released.
- Check that the top cover is down.
- Check that the perforator assembly is in its closed position.
- Check that the delivery unit is in the up position, and located correctly, (the machine will not start if the delivery unit is not in its up position).
- Check that the Gearbox Release Knob is fully to the right against the Operator side frame.

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.
- 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.
- Check that the clearance between the paper gate and the suction roller is not set too low.
- On digital media, the feeding performance may be improved if the leading edge of the stack is trimmed before loading onto the Digifold.
- Check that the air distribution has been correctly set.
- 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 necessary to feed the sheets manually see page 31.

Cracking of the Printed Material along the Crease.

Cracking of the material along the crease may be caused by the following:-

- Pressure too heavy on the top blade reduce pressure.
- Cracking on one edge caused by misalignment of the anvil and blade.
- When using dry ink or toner based print engines, the material <u>must</u> be fully acclimatised for at least 48 hours before putting an image onto the paper.

smaller.

Using the Correct Blade Set.

 Two Blade sets are supplied with the machine. The Standard Blade set is suitable for material thicknesses of 0.25mm (0.010") and greater. The Narrow Blade set is suitable for material thicknesses of 0.25mm (0.010") and

 If the Standard Blade Set is used to crease and fold materials less than 0.25mm (0.010") inaccurate results can be produced.

• If the Narrow Blade Set is used to crease and fold materials greater than 0.25mm (0.010") cracking can occur. More importantly this could cause the main motor to temporarily stall. This probably won't be that noticeable until you look at the results, whereby the crease position will vary.

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 39 that describes how to remove paper jams. Press the green tick button and then press the start button.



• 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.



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.

FOLDING











- Clean all sensors.
- Clean in feed rollers and output drive hubs using the cleaning kit supplied (cleaning kit part number 90-018).
- Remove and clean the blade assembly.

Technician Maintenance

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



170-95-02

morgana

ITEM	PART NUMBER	QTY	DESCRIPTION
1	174-025	1	OPERATORS MANUAL - DigiFold Pro
2	90-018	1	ROLLER CLEANING KIT
3	650-040	1	POWER CORD C19 UK 16A 2.5m
4	170-009-01	2	BLADE REMOVAL TOOL
5	601-167	1	DIGITAL THICKNESS GAUGE
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	10 620-026		BONDUS L WRENCH 4mm
11	11 620-027		BONDUS L WRENCH 5mm
12	624-025	1	STATIONERY TUBE 330MM X 50MM
13	170-002-01	1	QUICK START CHART
14	624-018	1	DISPATCH BOX
15	1-99-35	1	SLITTING ANVIL SET
16	1-99-12	1	SLITTER PERF BLADE 28T
17	613-229	1	WRITE-ON SERIAL NO. LABEL
18	65-104	1	SPECIFICATION LABEL MSL/CE

ITEM	PART NUMBER	DESCRIPTION
1	172-022-01	LOADING TABLE EXTENSION
2	1-99-10	PERFORATING BLADE SET 20T (Card)
3	1-99-12	PERFORATING BLADE SET 28T (Single Sheets)
4	1-99-41	PERFORATING BLADE SET 56T (Fine Perforations)
5	1-99-35	ANVIL SET USED WITH ABOVE BLADE SETS
6	172-03-01	DOUBLE SHEET DETECTOR KIT
7	172-04-01	NARROW SHEET KIT
8	173-169-01	ETHERNET KIT

		12
	9	na

PART NO.	DESCRIPTION
125-21-02	Dual Stepper Driver Board
125-25-01	Small Stepper Driver - High Power
174-06-01	Small Stepper Driver - Low Power
174-01-02	Controller PCB Assembly + Chip
174-19-01	RS232 Adaptor PCB Assy.
75-472-01	Mini ITX Motherboard (Configured)
126-059-02	Link - Paper Guide
128-026-03	Delivery Belt
145-093-02	Knife Driver Pin - M8
76-261	Lead - Delivery Input Connector
173-57-01	Lead - Blade Position Sensor
173-45-01	Lead - Tilt Pot
173-46-01	Lead - Gap Set 3 Pot Lead - Gap Set 2 Pot
173-48-01	Lead - Gap Set 2 Pot
173-06-01	Power Supply - 48V
173-06-02	Power Supply - 24V
76-272	PSU Assembly - ATX12V - 300W
173-49-01	Stepper Motor - Dynacrease
76-240	Stepper Motor - Drive
76-257	Stepper Motor - Fold Knives
175-31-01	Input roller Assembly - Lower
175-31-04	Input Roller Assembly - Upper
175-042-01	Feed Belt
175-10-01	Edge Sensor Assembly
75-06-01	Touch Screen Assembly - 7"
175-11-01	Sensor Bar Assembly
175-11-02	Sensor Bar Assembly - Clip
175-11-03	Sensor Bar Assembly
175-12-01	1st Blade Assembly
175-12-02	2nd Blade Assembly
175-125-01	Connecting Link Assembly - Drive
175-125-02	Connecting Link Assembly - Knife Hubs
175-29-01	Fold Roller - 1st
175-29-02	Fold Roller - 2nd
175-29-03	Fold Roller - 3rd
175-29-04	Fold Roller - Fixed

Page 56

PART NO.	DESCRIPTION
172-05-01	Paper Gate Assembly
175-21-01	Vacuum Roller Assembly
176-02-01	Blade Adjuster Assembly
176-081-01	Worm Wheel - Gap Set
176-213-01	Dynamic Blade Set - Narrow
176-213-02	Dynamic Blade Set - Standard
177-01-01	Perforator Assembly
602-160	Plain Bush - Dynacrease Guide Block
604-100	Gas Spring - Perf. Unit
604-103	Gas Spring - Delivery
607-005	Belt - Vacuum Roller
607-045	Multi Beam Coupler
607-171	Timing Belt - Drive
607-175	Belt - Drive
607-183	Timing Belt - 190XL 062
613-023	Fuse - 3.15A - 20 x 5mm - Fast Blow Ceramic
681-011	Fuse - 315mA - 20 x 5mm Anti-surge - Ceramic
681-019	Fuse - 6.3A - 20 x 5mm - Anti-surge Ceramic
613-351	Micro Switch - Guard
613-365	Emergency Stop Switch - Double Pole
626-007	Anti-Static Sensor Bar
652-011	Switch - Low Current Coil - Black
652-043	Switch Thermal O/Load 20A Black
75-258	Anti - Static Transformer
175-28-01	Butterfly Valve - Stepper
76-262	Stepper Motor - Roller Drive
76-258	Stepper Motor - Belt Drive
76-259	Stepper Motor - Roller Position
76-266	Lead - Fold Knives Sensor
124-01-27	Lead - Delivery Roller Pot
175-072-01	Lead - Jam Detector - Emitter
175-072-02	Lead - Jam Detector - Receiver

NOTE.....

The items listed above represent parts which are subject to wear, loss, or accidental damage, and is included for your guidance only. Replacement of parts fitted to your machine require specialist knowledge and should

morgana

MACHINE CALIBRATION HISTORY

Serial Number:-

Date:-				
Total Count:-				
Vac Suck Trim				
Vac Park Trim				
Stretch				
Lead Edge Trim	1			
Follow Stretch				
Del. Roller Trim				
Knife 1 Trim				
Knife 2 Trim				
K1 Deflect Trim				
K2 Deflect Trim				
K1 Travel				
K2 Travel				
Date:-		·		
Total Count:-				
Vac Suck Trim				
Vac Park Trim				
Stretch				
Lead Edge Trim				
Follow Stretch				
Del. Roller Trim				
Knife 1 Trim				
Knife 2 Trim				
K1 Deflect Trim				
K2 Deflect Trim				
K1 Travel				
K2 Travel				
Date:-				
Total Count:-				
Vac Suck Trim				
Vac Park Trim				
Stretch				
Lead Edge Trim	1			
Follow Stretch				
Del. Roller Trim				
Knife 1 Trim				
Knife 2 Trim				
K1 Deflect Trim				
K2 Deflect Trim				
K1 Travel				
K2 Travel				
	1	1	1	

Page 58

FUSE POSITIONS & RATINGS (POSITION ET CLASSIFICATION DES FUSIBLES)



