



## Product Information

Europe | Middle East | Africa | Asia Pacific

# Plockmatic Group

 **0800 1381 882**

Morgana Systems Ltd | 9 Davy Avenue  
Knowlhill | Milton Keynes | MK5 8HJ  
**email:** [sales@morgana.co.uk](mailto:sales@morgana.co.uk) | [www.plockmaticgroup.com](http://www.plockmaticgroup.com)

# Contents

# Page number

BM3000 Series	6
BM5000 Series	7
PowerSquare™ 160/160VF	8
PowerSquare™ 224/224VF	9
SFT SquareFold Trimmer	10
AutoCreaser Series	11
DigiFold Series	12
AutoCut Pro and AutoFold Pro	13
FSN Numbering machine	14
Morgana Folding Machines	15
DigiBook 200	16
DigiBook 300XL Pro / DigiBook 450	17
RDC Rotary Die Cutter	18
Laminators	19
Reflex Mailing System	20

PUR PERFECT BINDERS // FOLDERS AND CREASERS // CARD CUTTERS // BOOKLET MAKERS // MAILING SYSTEMS









# It all starts with the application.



## Application

	<b>Solution</b>	BM3000 Booklet maker	BM5000 Booklet maker	PowerSquare™ 160	PowerSquare™ 224	DigiFold Pro Range	AutoCreaser Pro range	AutoCut Pro	AutoFold Pro	DocuFold Pro	Major Folder	Laminator 450	RDC Die Cutter	Reflex Mailing System	DigiBook PUR Binder
A4 portrait Books		■	■	■	■										
A4 landscape books			■	■	■										
A5 landscape books		■	■	■	■										
High page count book		■	■	■	■										
6pp A4 letter fold document						■	■		■	■	■				
Creased documents						■	■								
Folded documents						■	■		■	■	■				
PUR bound book															■
Business card, postcards etc.								■					■		
Laminated and foiled documents												■			
Short run packaging													■		
Die cutting													■		
Mail inserting														■	



# Morgana BM3000 Series

A **modular** design  
adaptable to your  
**offline** bookmaking  
requirements, hand fed  
or feeder ready

### BM3035 and BM3050

The new Morgana BM3035/3050 is a modular booklet making solution for those centralised reproduction departments and commercial print providers who prefer an offline solution. Produce booklets up to 140 pages with the BM3035 and 200 pages with the BM3050.

Customers can choose from a range of cost-effective options to support their applications including the new VFX feeder with optional barcode reading. The BM3000 series is packed with a host of technologies that deliver finished books with quality to match today's printing systems.

Customers are demanding more media versatility from digital print. Like all Plockmatic Group booklet makers, the Morgana BM3035/3050 is designed from the ground up to run reliably with today's coated, uncoated and textured paper stocks.



### Modules

**Booklet Maker:** the simplest configuration includes the Booklet Maker and output tray to provide a simple solution by producing hand fed sets - stapling, folding and stacking.

**VFX Feeder:** a high capacity Vacuum Feeder capable of feeding a wide range of paper types and weights with minimal operator adjustment. The VFX includes two paper trays with a combined capacity of up to 5400 sheets.

**AF602 Feeder:** Air assisted feeder

**Face Trimmer:** the addition of the trimmer removes the shingled effect on the face of the folded document and provides a clean document edge.

**SquareFold:** this unit adds a square folded spine for a professional, perfect bound look to the finished book.

**CST Crease Side Trimmer:** the optional Crease and Side Trim unit enables professional looking, full bleed trimmed and creased booklets in a cost-effective, compact module.

The system supports load-while-run for uninterrupted production and can be fitted with the AF602 or VFX Feeder.



## Morgana BM5000 Series

A new kind of Booklet Maker.  
**Landscape format books,**  
2-up and more

### Morgana BM5035/BM5050 BM5035S/5050S

The booklet maker is available in multiple versions to meet your exact requirement. The BM5050 and BM5035 feature two maintenance-free **staple** heads, and the BM5050S and BM5035S come with two or four **stitching** heads. These new systems are engineered for mid-to-high volume customers with features exclusive to this class.

The BM5000 series delivers new applications, for example A4 landscape books, by processing sheets up to 620mm long. The BM5035S/5050S, with its optional 4 stitching head configuration, lets you finish jobs that have been imposed 2 up on a sheet. This functionality offers you higher productivity and reduced costs per book.

### Modules

**New VFX Feeder:** a high capacity Vacuum Feeder capable of feeding a wide range of paper types and weights with minimal operator adjustment. The VFX includes two paper trays with a combined capacity of up to 5400 sheets. Feeding has never been so easy and reliable!

**FM5000 Finishing Module:** FM5000 includes the face trimmer and SquareFold assembly in one unit. This will support the longer sheet sizes from the booklet maker.

**CST Crease Side Trimmer Module:** the optional Crease and Side Trim unit produces professional looking, full bleed trimmed and creased booklets in a cost-effective, compact module.

**Optional Convenience Feeder:** with a capacity of up to 800 sheets, it can either feed covers or can be used as an alternative feed point, to make a simple, compact landscape booklet maker without the need for an additional feeder module.

**Stapling:** The BM5035 or BM5050 come equipped with 2 easy change, low-maintenance, heavy duty staple cartridges.

**Stitching:** The BM5035S or BM5050S stitch from wire spools. Each spool contains approx 50,000 stitches depending on the thickness of the book. The leg length of the stitch can easily be adjusted from job to job without using tools.



BM5035 equipped with CST unit  
and VFX Feeder



## Morgana PowerSquare™ 160/160VF

The **PSQ160** and **PSQ160VF** are systems that deliver booklets in **high volume**. Produce **standard** or **A4 landscape** formats



### PowerSquare™ 160 and 160VF

The PowerSquare™ 160 and 160VF deliver professionally finished SquareBack™ booklets to meet the needs of mid-to-high volume digital production printers. With an increasing number of printing systems able to handle long sheets, the production of A4 landscape booklets is critical.

The PowerSquare™ 160 and 160VF booklet makers combine optimum book quality with robust and reliable performance. All processes needed to produce high quality SquareBack booklets: stapling, folding, spine forming, and face trimming are combined in a single, compact system.

### VFX Feeder

A high capacity Vacuum Feeder capable of feeding a wide range of paper types and weights with a minimal operator adjustment. The VFX includes two paper trays with a combined capacity of up to 5400 sheets.

The system supports load-while-run for uninterrupted production.



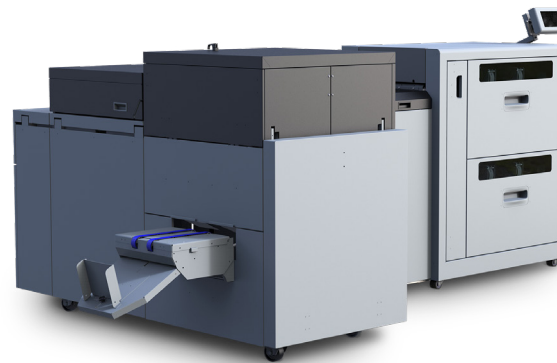


# Morgana PowerSquare™ 224/224VF

The **PSQ224** or **PSQ224VF** is the **professionals choice** for **high volume production** of **SquareBack** books up to **224 pages**

## PowerSquare™ 224 and 224VF

This unique and innovative booklet making systems is designed for high production environments. In a single machine, it combines the four processes of stitching, folding, spine forming and trimming to produce SquareBack™ books up to 224 pages. No other booklet making system offers this flexibility.



## Two Knife trimming

The optional PowerSquare™ Two-Knife Trimmer (P2T) is a compact module that completes the booklet making process by trimming the top and bottom edges of the book after it's made. This reduces workflow steps by eliminating pre or post press trimming on a guillotine. It's a professional solution for full-bleed printed work, especially important for colour printed applications.

The PowerSquare Book Stacker (PBS) delivers huge efficiency gains by allowing the PowerSquare to run, unattended, for extended periods. With a capacity of 930mm, it can run for up to an hour without operator intervention.

The PBS stacks the finished books vertically which is extremely space efficient; the compact unit requires very little additional floor space.





## Morgana SquareFold Trimmer

If you've got another booklet maker, turn your **booklets** into professionally finished square fold books with the **SFT**

### Morgana SFT

The Morgana SFT converts existing books from any booklet maker into a face trimmed, SquareBack book. It has a booklet compatibility ranging by size from A5, through A4 landscape books, up to 320mm x 320mm. It processes up to 50 sheets of 80gsm paper stock.

### Operator Assisted Three-Side Trimming

Not everyone has access or the time to use a guillotine for short run jobs. The Morgana SFT can also process booklets for bleed trimming in a hand feed operator process. Insert the finished booklets, first to trim the top, then a second time to trim the bottom.



Full bleed booklets are now an option for small CRD's and office installations.

The Morgana SFT adds two key functions – booklet square folding and trimming. The result is a professionally finished document – with the sharp SquareFold spine and trimmed front edge.





# Morgana AutoCreaser Pro 33A / Pro 50 / Pro XL

## Crease your digital stock without the cracking

Most digitally printed work will suffer some degree of toner cracking, more so on coated or heavier weight stock and particularly when work is printed over a fold. The unique creasing rule and matrix in the AutoCreaser range eliminates paper tearing and therefore cracking.

### The New AutoCreaser Pro XL

The NEW AutoCreaser Pro XL is an easy to use automatic paper creasing system, with a cost efficient vacuum top feeder with load capacity of 200mm.

Running at a maximum of 8,500 A4 sheets per hour, with no loss of accuracy, this is our most productive creaser to date. The new AutoCreaser Pro XL takes a sheet size up to **385mm x 1300mm** with the table extension, this comes as standard with this new machine. This machine is capable of up to 30 creases per sheet and has the optional benefit of a dual creasing module. This allows up and down creasing, or creasing and perforating in a single pass.

Morgana's new Adaptive Process Control (APC) monitors sheet feeding in a closed loop process, delivering outstanding performance and reliability.

The new AutoCreaser Pro XL is specifically designed to handle the widest range of media. The Feeder continuously checks the paper float zone and automatically makes adjustments on the fly. This is an industry first for a product of this class and ensures highest feed reliability.

### AutoCreaser Pro 33A

Now fitted with a NEW 'QuickBlade' creasing blade that can easily be changed in a few seconds. Built around the tried and tested AutoCreaser Pro 33, this machine will give you many years of trouble free production.

### AutoCreaser Pro 50

This option allows 500mm width creasing capability. All AutoCreasers feed 8,500 sheets of A4 per hour and take varying stock weight up to 400gsm and sheets size up to 900mm x 500mm, with perforation coming as stand.



## Morgana DigiFold Pro and DigiFold Pro 385

The **DigiFold Pro** is an automatic **creasing and folding** system that **prevents cracking on digitally printed stock**



### DigiFold Pro

The original DigiFold Pro is an automatic creasing and folding machine, designed specifically for the professional digital or litho printer who has a need to crease and fold digitally printed, heavy weight or cross grained stock. The DigiFold Pro combines our unique creasing technology with our patented flying knife folding unit to give a robust, compact solution to removing the unsightly problem of paper and toner cracking.

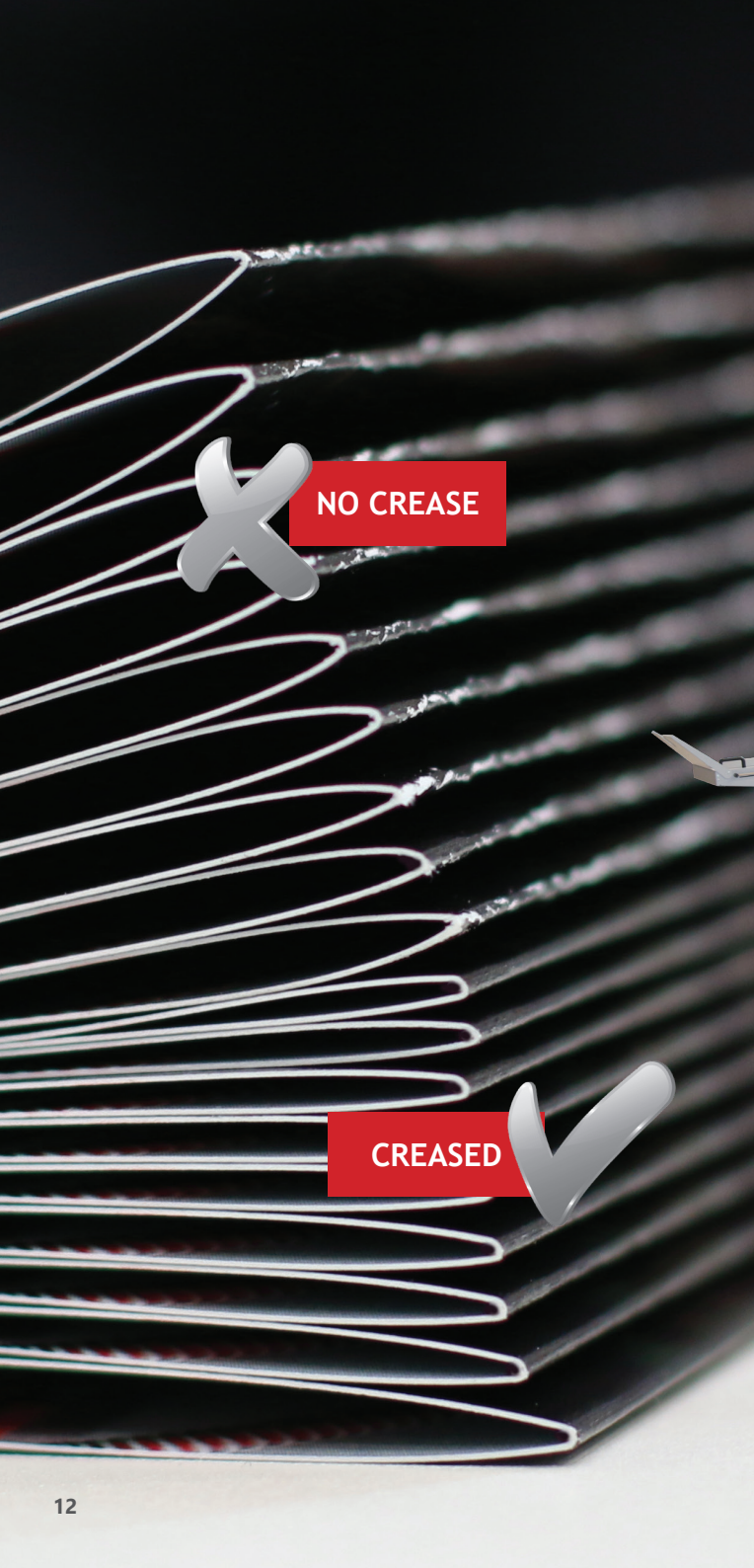
### DigiFold Pro 385

The New DigiFold Pro 385 offers further levels of automation to meet today's demanding applications. It is equipped with the very latest in technology to enable automatic set up of jobs, including setting of all feeder functions and fold roller settings, by selecting just a few simple parameters.

The deep pile feeder allows stacking of up to 450mm of paper to enable longer runs. It is equipped with a SmartStep table drop for fast loading of shorter run jobs. Paper feeding is controlled by a vacuum top feeding drum that can automatically change between a wide range of paper types and thickness.

The unique DynaCrease system places creases into the stock whilst running to an accuracy of +/- 0.01mm. This system will allow you to process up to 6000 sheets per hour.

The DigiFold Pro 385 can be used as an integrated creaser/folder performing both functions in a single pass, as a stand-alone creaser when folding is not required, or as a perforator when creasing and folding are not required. Up to five perforation wheels can be fitted across the width of the sheet.





# Morgana AutoCut Pro and Morgana AutoFold Pro

## The long sheet story...

### Morgana AutoCut Pro

Today's digital presses are more powerful than ever and so the need for finishing technology that turns this power into great applications is essential. The AutoCut Pro delivers the benefits of three functions in one – highly accurate cutting and slitting and high speed creasing in an easy to use system.

If you are looking to make the printed page stand out in new ways and if you're using a wider range of media and working with new, larger formats then the AutoCut Pro combined with Morgana's AutoFold Pro module easily turns long sheets into beautifully finished six panel brochures.

The AutoCut Pro's unique capabilities enables you to trim the lead, trail edge, top and bottom from a sheet and crease it. When you link it to the AutoFold, this gives you the ability to then fold the finished documents. When the AutoCut is linked to the AutoFold Pro it provides an even more productive finishing solution.

### Morgana AutoFold Pro

The AutoFold Pro is an automatic folding system designed specifically for the professional printer. Specially designed for folding digital stocks, it uses our patented



'Flying Knife technology', developed to prevent scuffing and marking on digital stocks. The AutoFold Pro is simply wheeled up to ANY creaser and the height of its vacuum feed conveyor adjusts to the height of the creaser.



### Link the AutoCut to the AutoFold Pro...

The Morgana AutoCut Pro and the AutoFold work together to create today's on-demand applications, such as letter and gatefold brochures.





## Morgana FSN

### High volume suction feeding numbering machine

#### FSN II Numbering machine

The FSN is a heavy duty, high volume, suction feed numbering machine featuring electronic pulsing and feeding from the bottom of the stack so that loading can be done 'on the run.' Positive control of paper from feed to delivery ensures consistent register throughout every run. The FSN takes up to 8 parallel or convex numbering heads.

This machine can also be used as a very capable perforating unit. Ideal for lighter weight stock. Optional extra perforation wheels allow up to 5 continuous perforations down the sheet. Options include micro perfering, and other multiple perfering grades.

Optional perforating wheels:  
20, 28, 56 and 96 tooth perforation wheels.

- Precision-feeding and sheet control
- Up to 8 parallel or convex heads
- High power vacuum and air pump
- Fast, simple make-ready
- Micro-porous ink roll system
- Perforates & numbers anywhere on the sheet in one pass
- Adjustable platen pressure
- 2 perforators & a scorer as standard
- Electronic sheet spacing
- Continuous operation
- Feeds carbonless sets with open & closed edge leading





# Morgana Major and Morgana DocuFold

---

**High Speed** automatic suction fed paper folders. **Fold** up to **27,000** sheets **per hour**

## Morgana DocuFold Pro

The Morgana DocuFold Pro is a fully automatic paper folding machine. Equipped with the latest SmartScreen technology, it enables an operator with minimum training to carry out a variety of folds from an icon driven touch screen. An unlimited alpha numeric memory is available to store all standard and non standard jobs. All Morgana high speed folders are supplied with a scoring and perforation module as standard.

## Morgana Major

The Morgana Major is a simple to operate suction feed folding machine designed and manufactured to handle a wide range of paper weights and types of fold. It comes as standard with a variable speed function, counting an batching counter and long sheet belt delivery.





## Morgana DigiBook 200 PUR Binder

**PUR** is the strongest, most economical and **flexible binding** adhesive available

PUR is the strongest, most flexible binding adhesive available and offers several advantages over other binding adhesives. When inks, coatings or digital print toners are present in the spine area, these can compromise the strength of typical hot melt perfect binding. PUR is resistant to this and will form a super-strong bond with all weights and finishes of a wide range of substrates, such as synthetics, recycled and bespoke materials.

The system's innovative glue application system, with no less than 7 international patents, is easy to use. Operated via a touch screen panel, programming of all the operations takes just a few seconds.

The PUR applicator is direct and hermetically sealed, without odour or toxic fume emissions, therefore does not require any extraction. It is possible to set different temperatures for the glue melting tank and the applicator, giving greater flexibility and glue life. Another feature of this applicator is it can be cleaned and sealed automatically from the touch screen allowing for minimum glue waste. This offers significant running cost savings compared to competitive technology



### DigiBook 200

The DigiBook 200 is an entry level PUR binder ideally suited to traditional and digital printers who require short runs of perfect bound books to a professional standard.

The PUR glue is applied on the book spine and on the sides by independent glue slots, each of which can be adjusted to give the best possible spine and side glue results.



## DigiBook 300 XL Pro and 450 PUR Binders

### Create unique and stunning A3 landscape books with the DigiBook 300XL Pro

#### DigiBook 300XL Pro

The DigiBook 300XL opens the door to high value, large format book production, complimenting the rise of the long sheet digital production engines. Now you can offer your customers books with a finished size of up to A3 landscape. Applications such as catalogues, photobooks can all be produced more economically and easily than ever before.

All DigiBooks have the same innovative glue application and cleaning system, with the PUR glue being applied on the book spine and on the sides by independent glue slots.



#### DigiBook 450

The DigiBook 450 is the most productive machine in the range. This innovative machine is equipped with a patented closed tank gluing system where the spine and side gluing are applied by a slot applicator, for the utmost binding quality and accuracy. It offers higher productivity, more speed, more automation, including book delivery and cover feeder.

The DigiBook 300 XL Pro and 450 are equipped with retractable milling systems, allowing for the production of sewn/folded book sections.





## Morgana RDC - Rotary Die Cutter

This revolutionary **RDC** combines speed, easy operation and quality. It's the ideal solution for your **commercial die cutting** requirements

### Morgana RDC

The RDC is the ideal machine for the production of high volumes of boxes, labels and personalized items, such as business cards, kiss-cut labels and postcards. It guarantees a professional quality and has a fast working speed. It is designed to meet the needs of today's digital print applications, including short, medium and long run custom shaped products.

The RDC has an easy to use touch screen that has various setting adjustments for fine tuning the die location to the image, as well as adjustments for waste separation, job change and job storage.



The cutting accuracy can be controlled by working from the lead edge or a printed registration mark of the sheet, adjustable side guide register ensures that accuracy is repeated every time.

Its intuitive settings enable you to produce up to 4,500 sheets/hour, enabling you to quickly meet any finishing requirement.

The RDC is supplied with automatic waste stripping and removal as standard, allowing perfect delivery of the finished items on the motorised delivery conveyor.





## Laminator 450 and Laminator Pro 450

### Add value to your laminated work by adding foil embellishment

#### Semi Automatic - Laminator 450

Designed for easy operation, the Laminator 450 is an easy to use, semi automatic laminator for sheets up to 350gsm in weight and up to 900mm in length. The machine has an integrated compressor and pneumatic system, ideal for high quality print lamination on a working width of up to 450mm. The pneumatic pressure gives the smoothest results on a wide range of stock and lamination finishes.

This revolutionary compact and efficient machine, combines speed with excellent quality output, making it the ideal solution for your in house commercial laminating requirements.

#### Automatic Laminator Pro 450

The Laminator Pro 450 has an integrated high pile feeder, for long uninterrupted runs of stocks up to 350 gsm and 450mm in width.

#### Foiling Kit

Both the 450 and the Pro 450 can be fitted with an optional foil kit for application of a wide range of foil and special finish overlays.



## Reflex mailing Systems

---

### Mid range **mail inserter** systems for short run jobs

#### Reflex Mailing Systems

This mid range inserting system is ideal for short run job. With a simple and intuitive operation system, its easy automated job change-over makes it suitable for the widest range of applications.

The user interface is both simple and intuitive to use with an easy job programming function. The stock is placed in the inserting module which then adjusts to the sheet size.

- Automation of manual inserting
- Reprints processing
- Fast turn-around times
- Control reader
- OMR, 1D & 2D
- High capacity feed bin 700 page capacity
- 180cm shingling output conveyor
- Output reading sequence verification
- ADF Integration















