Plockmatic Group

morgana



BM4035e/BM4050e Series with VFX+ feeder

www.plockmaticgroup.com

A new kind of booklet maker that can produce **letter landscape** or large format **12" x 12" books**. Includes a **corner** and **edge stapling** function as **standard.**

Morgana BM4035e/BM4050e Series

Now up to 80% faster!

BM4000e Booklet Maker

The BM4000e is a versatile booklet maker designed to work with low to mid volume digital production printers. It delivers booklets of exceptional quality and is able to feed long printed sheets to produce a wide variety of applications, including A4 landscape booklets, which is becoming an increasingly important expectation of customers.

Key Features

- Produce square folded booklets from half letter to letter landscape, or large format 12" x 12"
- Corner stapled documents in portrait letter
- Edge stapled documents in portrait and landscape letter
- Up to 140 or 200 page booklet capacity
- Supports up to 26" long sheets without CST or 24.4" with CST
- Up to 30k per month with maximum peak volume of 40k.

Performance kit for a faster and more capable system

The BM4035e system can be equipped the performance upgrade kit. This kit improves the system with two features:

- It increases the overall processing speed of the system
- It makes it possible to upgrade a BM4035e to a BM4050e by increasing the set processing capability from 35 to 50 sheets (20 lb. bond paper)



Morgana BM4035e/BM4050e Series

Robust and **reliable** for a range of **applications.**

Produces **landscape format books** with our **signature SquareFold** finish.



Booklet making made easy

The BM4000e series produces consistently high booklet quality on all booklet sizes and media types

- The basic configuration with hand feed capability enables users to make booklets in the offline mode
- Heavy duty staple mechanism designed for durability
- Maintenance free thanks to a patented solution that eliminates periodic service intervals
- Adjustable staple and fold position, The BM4000e series has a patented “set positioning mechanism” that allows the operator to adjust the staple position in the direction of travel, from the intuitive user interface.
- The BM4000e series is designed for demanding environments that handle an average monthly volume of 30,000 booklets/month.
- Operators can now compensate for skew caused when feeding long sheets, this can easily be adjusted in the color user interface on the fly.

The new system architecture enables customers to produce high quality booklets from half letter to letter landscape, or 8.5" x 11" and above and has all the key processes needed to produce corner and edge staple, folding, spine forming, and full bleed trimming, all combined in one single, easy to use system.

This new booklet maker offers the ability to produce the all new long sheets applications while maintaining the small and compact size.

Deliver high quality applications

The BM4000e series uses the latest patented Plockmatic technologies to deliver top quality output. The base unit folds and staples booklets and corner or edge stapled sets up to 140 pages (***35 sheets with the BM4035e***) or 200 pages (***50 sheets with the BM4050e***). The set positioning mechanism enables the operator to easily adjust the staple and fold position on the fly.



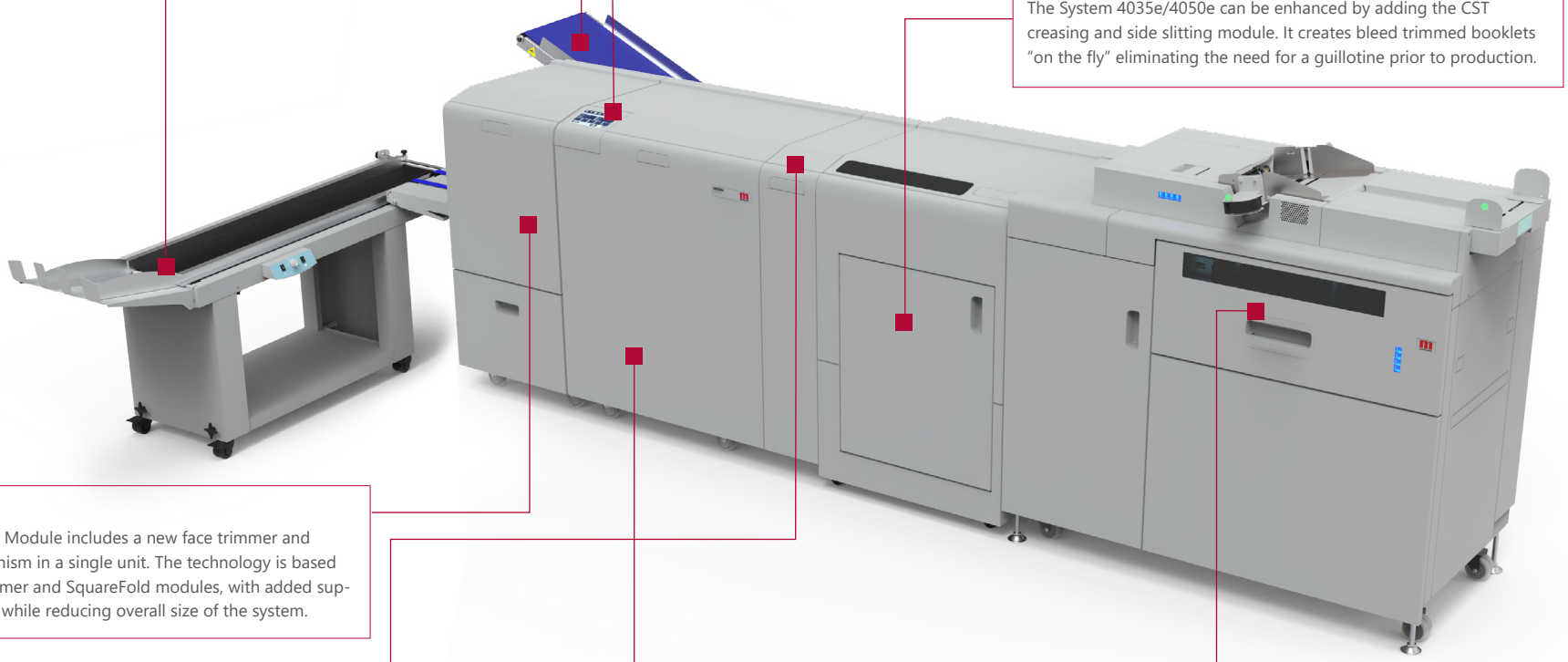
Morgana BM4035e/BM4050e Series

High-Capacity Book Stacker – BST4000-1
The high-capacity belt stacker is a practical option for more production-oriented sites. It can be configured straight or in a 90-degree angle and attaches after the standard output tray. This allows for long unattended runs and stacks up to 1000 8.5"x 11" booklets of 4 pages.

CST Trim Waste Conveyor The trim waste Conveyor is ideal for more production-oriented sites of full bleed booklets. The belt takes the trim waste from the CST and removes it into a larger waste bin.

Colour graphical interface
Operators are guided through job setup with detailed graphics that can provide step-by-step guidance. Getting professional results has never been easier.

CST crease/side trimming module (Optional)
The System 4035e/4050e can be enhanced by adding the CST creasing and side slitting module. It creates bleed trimmed booklets "on the fly" eliminating the need for a guillotine prior to production.



Finishing module
The optional Finishing Module includes a new face trimmer and square folding mechanism in a single unit. The technology is based on the successful Trimmer and SquareFold modules, with added support for longer sheets while reducing overall size of the system.

Hand feed capability
In its most basic configuration, the Morgana BM4000e can be hand fed for low volume applications. The VFX+ feeder and FM face trim and squarefold module can be added as the range of applications develop or volumes increase. The ***Hand Feed Bridge Unit*** (shown) enables hand feeding without undocking for quicker, more efficient booklet production.

BM4035e/BM4050e Production Booklet Makers
The Morgana BM4000e series can staple and fold booklets up to 35 sheets (***BM4035e***) or 50 sheets (***BM4050e***). From small booklets up to 8.5" x 11" Landscape and more. It can also corner and edge staple documents for an even wider range of applications.

VFX+ High Capacity feeder
The VFX+ high capacity feeder enables long uninterrupted runs of booklets. From a single bin to two bins and a multi-purpose tray, these versatile configurations enable bins to be loaded 'on the run' with pre-collated sets from multiple print engines. The VFX+ can also be equipped with barcode reading to enable set integrity.

Morgana BM4035e/BM4050e Series

Available as a **hand fed** device, or with the **VFX+ feeder** to meet your exact requirements



Finishing Module

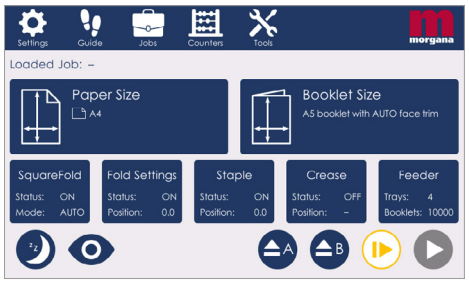
The optional finishing module includes a new face trimmer and square folding mechanism in a single unit. The technology is based on the successful trimmer and book fold modules with added support for longer sheets, while reducing the overall size of the system.

A completely new design, two-in-one square folding and face trimming features in a single compact module. High performance quality square folding functionality ensures a high-quality booklet on a wide range of media and booklet thickness.

With new trimming capabilities, the new, moving knife can cut down to 3.89" long booklets in a single cut, speeding up the process to enables a wider range of trimming inline. This gives the operators booklet size flexibility without the need to handle custom sized paper.

The FM4000e includes a book stacker in its standard version. The stacker can be folded down to allow virtually unlimited stacking capacity.

Hand Feed Bridge Unit
The optional Hand Feed Bridge Unit enables hand feeding without undocking to have a quicker and more efficient booklet production.



Easy to use interface

Simple to use 7" touchscreen graphical interface with easy job setup and adjustment of applications.

Morgana VFX+ Vacuum feeder

Key features

- Up to 3500 sheet capacity High-Capacity Vacuum Feeder (for the single unit configuration)
- Additional capacity of up to 640 sheets with the third air assisted, friction-fed pick point
- Utilizes latest technologies from Plockmatic Group vacuum and air assisted, friction-fed technology
- Adaptive Fan Control automatically adjusts air flow for varying media sizes and weights
- Advanced double sheet detection with ultrasonic sensors
- Two or three tray configuration allows for loading paper during jobs and uninterrupted production
- Enhanced performance on thin media
- Enhanced performance on difficult curled media
- Stable performance in high humidity environments
- Stable performance in high static environments
- Significantly improved overall general feeding reliability
- Automatic sheet size detection
- Improved usability
- Widened paper support
- 100% guaranteed set control with use of barcode technology

High capacity **vacuum feeder**



Morgana VFX+

The Morgana VFX+ is Plockmatic Group's next-generation vacuum feeding platform, designed to deliver improved productivity, flexibility, and ease of use. Building on the proven VFX feeder, it supports a wider range of media sizes and performs reliably in demanding environments, including high-humidity and high-static conditions.

Suitable for light to mid-volume production, the VFX+ can be configured for varied workflow requirements. Enhanced feeding technology improves mixed-media handling. Active antistatic ions added to the separation air significantly improving performance on Static media

Automatic paper size detection uses integrated sensor arrays within the vacuum trays to identify media on loading, simplifying setup and reducing operator input. Combined with intuitive controls, improved jam clearance, and reduced setup times, the VFX+ delivers efficient, reliable, and user-friendly operation.

Overall, it provides a stable, automated feeding solution designed for seamless integration with modern finishing systems.

Automatic Tray Switching

Maximum productivity for longer jobs is achieved through Automatic Tray Switching, which enables long unattended runs and the loading of empty trays during a run.

Adaptive Feed Settings

The VFX+ is equipped with a highly automated vacuum feed technology specifically designed to handle the widest range of pre-printed media.

Thin and curled media

The VFX is equipped with completely redesigned geometry in the vacuum feed area to improve performance on thinner media. Curled media is a challenge for any feeding system. The VFX has an enhancing feeding performance, specifically designed to handle media that has curled.

VFX+ – *Single tray configuration*



The single-tray configuration provides a cost-effective entry-level solution while retaining the proven performance of the VFX+ platform. The vacuum feed tray holds up to 1,750 sheets of 20lb bond and supports the full range of media sizes, delivering reliable feeding and efficient production.

VFX+ – *Two-tray configuration*



The dual-tray system supports uninterrupted production by allowing one tray to be reloaded while the other is running. Each tray holds up to 1,750 sheets of 20lb bond, providing a total capacity of 3,500 sheets. Two independent pick points make it ideal for booklet production, where covers and content often require different media types and weights.

Multi-Purpose Tray *(MPT)*



The Multi-Purpose Tray (MPT) adds a second or third feeding station to the VFX+, increasing flexibility and media capacity. It can be used as a dedicated cover feeder for booklet production or to add up to 640 sheets of 20lb bond capacity.

Its air-assisted friction-feed system reliably handles coated and uncoated stocks up to 170lb cover, ensuring consistent performance across a wide range of applications.

Barcode Reading Technology

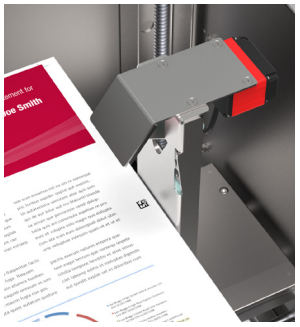
Morgana's Barcode Reading (BCR) technology uses a high-resolution camera system to read both 1D and 2D barcodes with exceptional accuracy. Unlike traditional barcode scanners, the camera-based system can capture and process greater amounts of data, improving reliability and workflow automation.

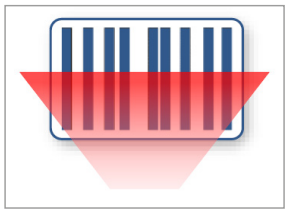
BCR is ideal for variable data booklet production, where content and page counts may differ from one booklet to the next. It also ensures complete set integrity, making it particularly valuable for applications such as insurance documents, financial statements, and personalised communications.

By integrating BCR technology into a Morgana booklet-making system, users can benefit from:

- Personalised document production using variable data 100% set integrity verification
- Greater production control and workflow automation

The result is a more efficient, accurate, and secure booklet production process.

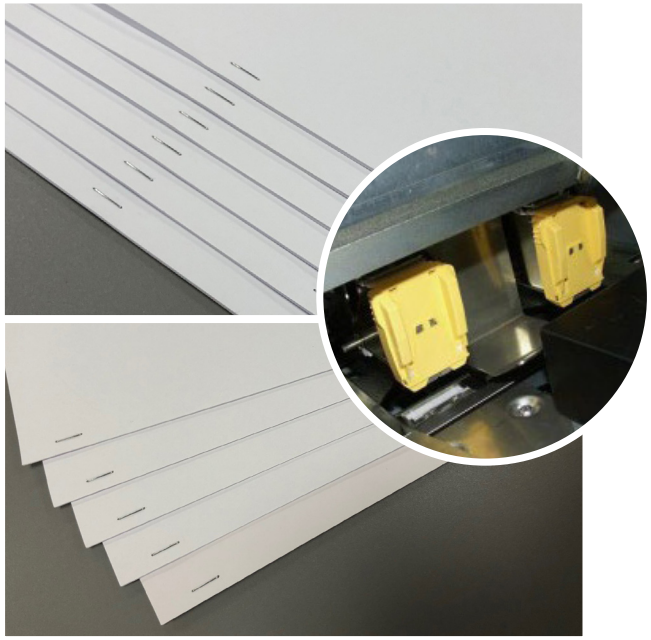




The latest **booklet making** system that includes both **corner** and **edge stapling** function as **standard.**

Corner stapling

Corner or edge stapling is the fast and easy solution for producing meeting notes, reference documents and hard copies of PowerPoint presentations etc.



The following barcodes are supported:

1D Barcode:

Code-39

Reader can handle 10mil resolution on BCR code

2D Barcodes:

DataMatrix

PDF417

QR code

Technical Specifications

BM4035e / BM4050e Booklet maker

Paper size: min	5.7" x 8.26" 1*
Paper size: max	12.6" x 26" 1*2*, 13" x 24.4" with CST
Stapling	Easy change, low maintenance, heavy duty staple cartridges
Staples per cartridge	5000
Paper weight: min	16 lb. bond (15.5 lb. supported on some media)1*
Paper weight: max	82 lb. (130 lb. supported on some media)1*
Book thickness	Min. set thickness - 1 sheet 20 lb. bond paper (when folded makes a 4 page leaflet)
	Max. set thickness – 0.137" and 0.196" (approx. 35 sheets and 50 sheets of 20 lb. bond paper)
	Max. finished book thickness - 0.27" and 0.39" (approx 140 and 200 pages of 20 lb. bond paper)
Power source	100-230V 50-60Hz
Power consumption	100W - 400W

1* Paper specification for booklet making only. Refer to full specification for Corner and Edge stapling specification.

2* Maximum sheet length is 24.4" when configured with the CST module.

BM4035e / BM4050e Corner and edge stapling

Paper weight (Edge stapling):	20-32 lb. bond paper
Paper weight (Corner stapling):	20 lb. bond paper
Paper size (Edge stapling):	8.5" x 11" Landscape or Portrait
Paper size (Corner stapling):	8.5" x 11"

CST Crease Side Trimmer (Optional)

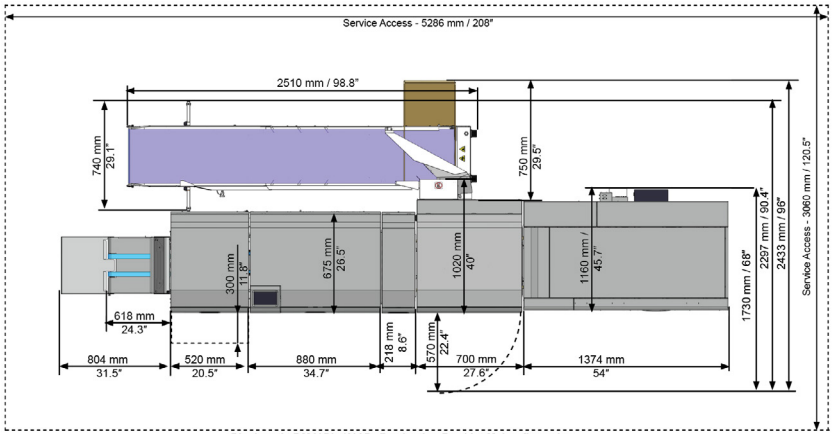
Stock weight: min	As BM4000e series
Stock weight: max	As BM4000e series
Trim: max	1.18", top & bottom - 2.36" total
Trim: min	0.196", top & bottom - bypass possible

VFX+ Feeder (Optional)

Load capacity*	1,750 - 3,500 + 650 sheets (MPT Multi purpose tray) *dependent on configuration
Stock weight	16lb bond - 130lb cover (170lb cover in MPT)
Power source	100-240V +6 - 10% (50-60Hz)
Power consumption	400W - 1200W
Sheet size: max	12.6" x 26" with BM4000e, 13" x 24.4" with CST

FM Finishing Module (Optional)

Face Trim: min	0.039"
Face Trim: max	8.26"
Sheet count: max	50 stapled and folded sheets



Plockmatic BM4050e/4035e Production Booklet Maker floor plan

Machine Footprint

Plockmatic Group | **www.plockmaticgroup.com**

*Disclaimer As part of our continued product improvement plan, specifications and information published here are subject to change without notice. All specifications are dependent on application, type of stock, temperature, RH and print engine used. Specifications quoted were measured on uncoated and unprinted stock. E & OE.