

 Plockmatic Group

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morgana



BM4035/BM4050 Series with VFX feeder

www.plockmaticgroup.com

Morgana BM4035/BM4050 Series

A new kind of booklet maker that can produce **A4 landscape** or large format **297mm x 297mm books**. Includes a **corner** and **edge stapling** function as **standard**.

BM4000 Booklet Maker

The BM4000 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 A6 to A4 Landscape, or large format 297 x 297mm
- Corner stapled documents in portrait A4
- Edge stapled documents in portrait and landscape A4
- Up to 140 or 200 page booklet capacity
- Supports up to 660mm long sheets without CST or 620mm with CST
- Up to 20k per month with maximum peak volume of 40k.

Morgana BM4035/BM4050 Series

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

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



Booklet making made easy

The BM4000 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 BM4000 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 BM4000 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.

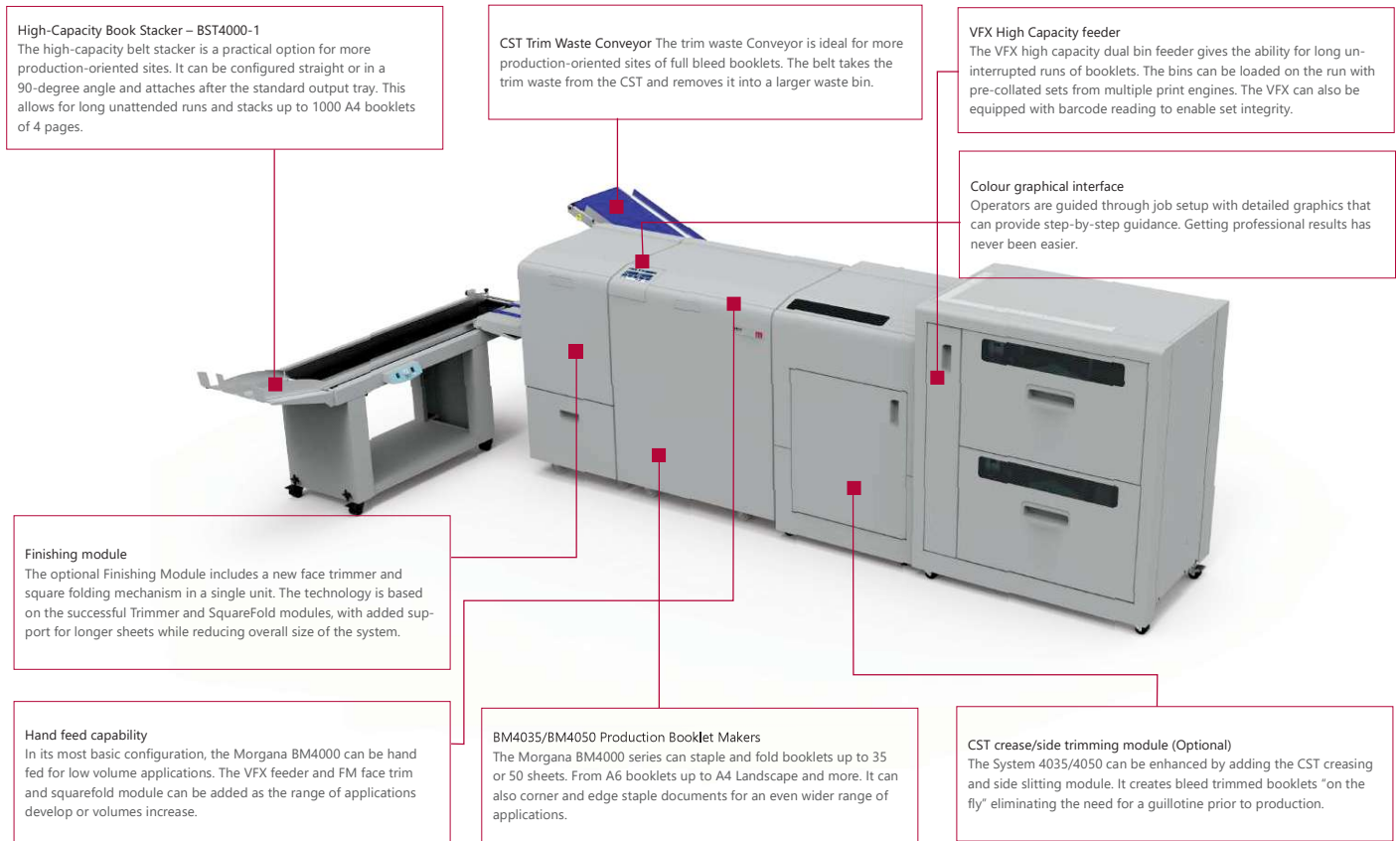
The new system architecture enables customers to produce high quality booklets from A6 to A4 landscape, and has all the key processes needed to produce corner and edge staple, folding, spine forming, and full bleed trimming, all combined in one single, easy to use system.

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 BM4000 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 BM4035) or 200 pages (50 sheets with the BM4050). The set positioning mechanism enables the operator to easily adjust the staple and fold position on the fly.

Morgana BM4035/BM4050 Series



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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 99mm long booklets in a single cut, speeding up the process to enable a wider range of trimming inline. This gives the operators booklet size flexibility without the need to handle custom sized paper.

The FM4000 includes a book stacker in its standard version. The stacker can be folded down to allow virtually unlimited stacking capacity.



Easy to use interface

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



Morgana VFX Feeder

High capacity 5400 sheet **Vacuum feeder** with **2 tray configuration** for **optimum** productivity

Key features

- 5400 sheet capacity High Capacity Vacuum Feeder
- Adaptive Fan Control automatically adjusts air flow for varying media sizes and weights, advanced double sheet detection with infrared and ultrasonic sensors
- Two tray configuration allows for loading paper during jobs and uninterrupted production
- Enhanced performance on thin media
- Enhanced performance on difficult curled media
- Feeds a wide range of today's media with little or no operator adjustment

VFX Feeder

The Morgana VFX is a two tray high capacity Vacuum Feeder, capable of efficiently feeding a wide range of paper types and weights up to 15,000 sheets per hour. It's equipped with highly automated vacuum feed technology specifically designed to handle the widest range of pre-printed media. The Automatic Tray Switching feature enables long unattended runs and enables the loading of empty trays during a run to achieve maximum productivity.

The main sections of the Morgana VFX are the two loading trays. Each tray is equipped with vacuum feed technology and two



types of double sheet detection sensors. Anti-static bars are available as an optional addition to the machine and are highly recommended for use in static environments or non-climate-controlled environments where humidity is low.

The VFX contains two vacuum paper trays. Each tray has a capacity of 2700 sheets (80 gsm plain paper) for a total machine capacity of 5400 sheets, and is capable of feeding stock up to 660mm long and 355mm wide, in this configuration with the BM4000 max supported sheet size is 320 x 660mm.

Curled media is a challenge for any feeding system. The VFX has an enhancing feeding performance, specifically designed to handle media that has curled.

APC Sensor Technology

Our new Adaptive Process Control (APC) monitors the sheet feeding, delivering an outstanding reliable feeding performance.

Thin and curled media

The VFX is equipped with completely redesigned geometry in the vacuum feed area, this gives improved performance on thinner media.

Precise separation of each sheet from the stack is essential for reliable feeding. Morgana's patented SP-sensor measures sheet separation in the "float area" and adjusts tray position and airflow. A row of multiple sensors work together with an advanced program to create a self-adjusting automatic mode that will reposition the paper stack while running. This supports reliable feeding for the widest range of media types.

Automatic Tray Switching

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



Morgana BM4035/BM4050 Series

The **barcode** kit enables **variable** page count jobs and ensures **set integrity**.

1D and 2D Barcode reader kit

The VFX can be equipped with an optional Barcode reading kit. The barcode kit enables variable page count jobs and ensures set integrity when document accuracy is critical.



The barcode option for the VFX feeder takes the NearLine workflow to a new level. With 2 readers (1 in each tray) every sheet feed is monitored and provides set integrity and feeding information to the booklet making system. Sheets could be feed from both trays and set size could vary anywhere within the booklet makers capability. This makes it an ideal solution for financial reports or similar type of documents where each booklet is personalized.

The following barcodes are supported:

1D Barcode:

Code-39

Reader can handle 10mil resolution
on BCR code

2D Barcodes:

DataMatrix

PDF417

QR code

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.



Technical Specifications

BM4035 / BM4050 Booklet making

Paper size: min	145 x 210mm ^{1*}
Paper size: max	320 x 660mm ^{1*2*} , 330 x 620mm with CST
Stapling	Easy change, low maintenance, heavy duty staple cartridges
Staples per cartridge	5000
Paper weight: min	64gsm (60gsm supported on some media) ^{1*}
Paper weight: max	300gsm (350gsm supported on some media) ^{1*}
Book thickness	Min. set thickness - 1 sheet 80gsm (when folded makes an 4 page leaflet)
	Max. set thickness - 3.5mm and 5mm (approx. 35 sheets and 50 sheets of 80gsm plain paper)
	Max. finished book thickness - 7mm and 10mm (approx 140 and 200 pages 80gsm)
Power source	100-230V 50-60Hz
Power consumption	250W

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

^{2*} Maximum sheet length is 620mm when configured with the CST module.

BM4035 / BM4050 Corner and edge stapling

Paper weight (Edge stapling):	80-120gsm
Paper weight (Corner stapling):	80gsm
Paper size (Edge stapling):	A4 Landscape or Portrait
Paper size (Corner stapling):	A4 Portrait

CST Crease Side Trimmer (Optional)

Stock weight: min	As BM4000 series
Stock weight: max	As BM4000 series
Trim: max	30mm, top & bottom - 60mm total
Trim: min	5mm, top & bottom - bypass possible

VFX Feeder (Optional)

Load capacity	5400 sheets
Stock weight	64gsm - 350gsm
Power source	100-240V +6 - 10% (50-60Hz)
Power consumption	650W
Sheet size: max	320 x 660mm with BM4000, 330 x 620mm with CST

FM Finishing Module (Optional)

Face Trim: min	1mm
Face Trim: max	210mm
Sheet count: max	50 stapled and folded sheets

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*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.

