Plockmatic Group

morgana

BM4035e/BM4050e Series with VFX feeder

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.**

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 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 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 (80gsm)

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
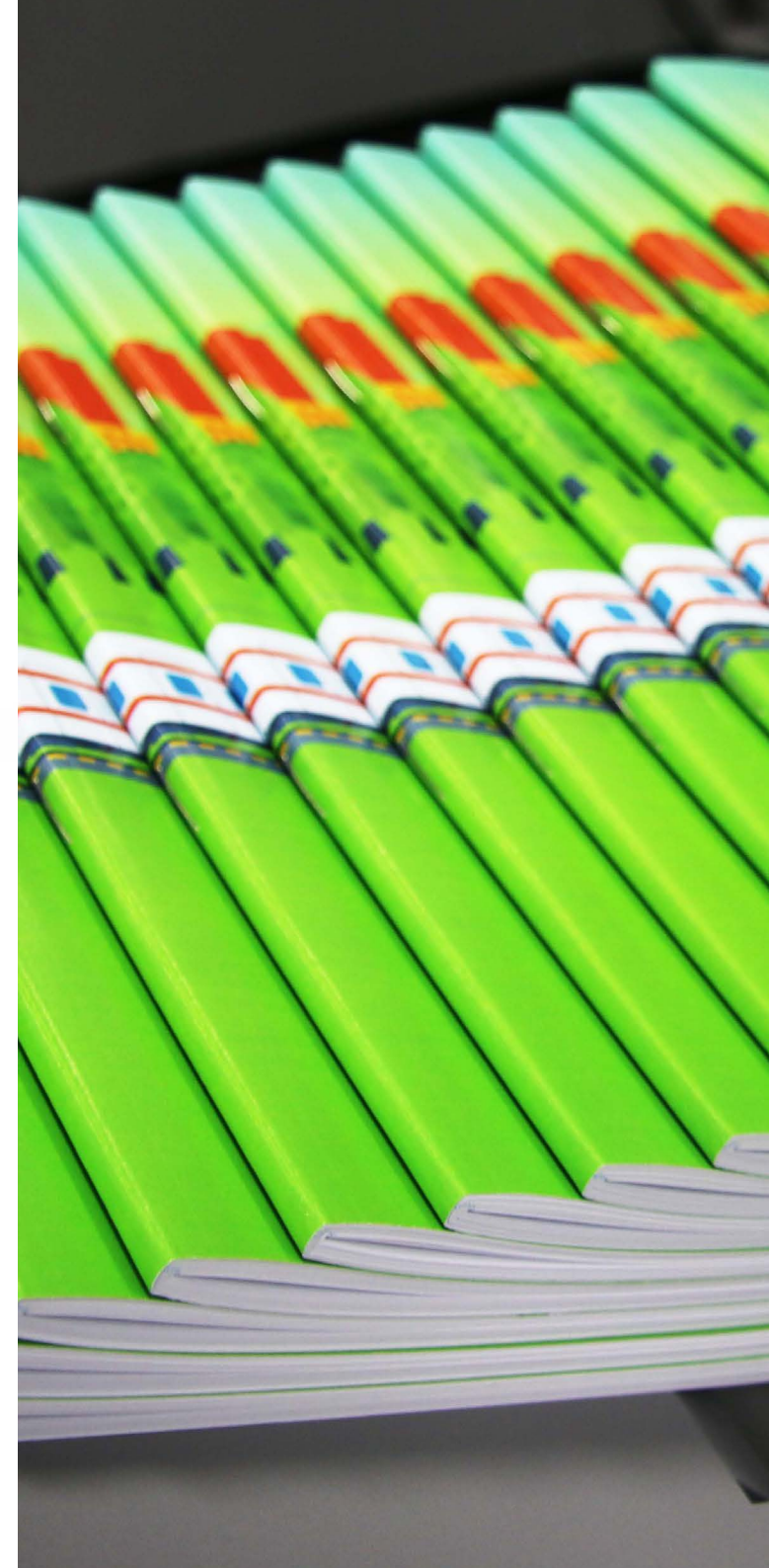quality on all booklet sizes and media types

- 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 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 BM4000e series uses the latest patented Plockmatic tech-
nologies 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 A4 booklets of 4 pages.
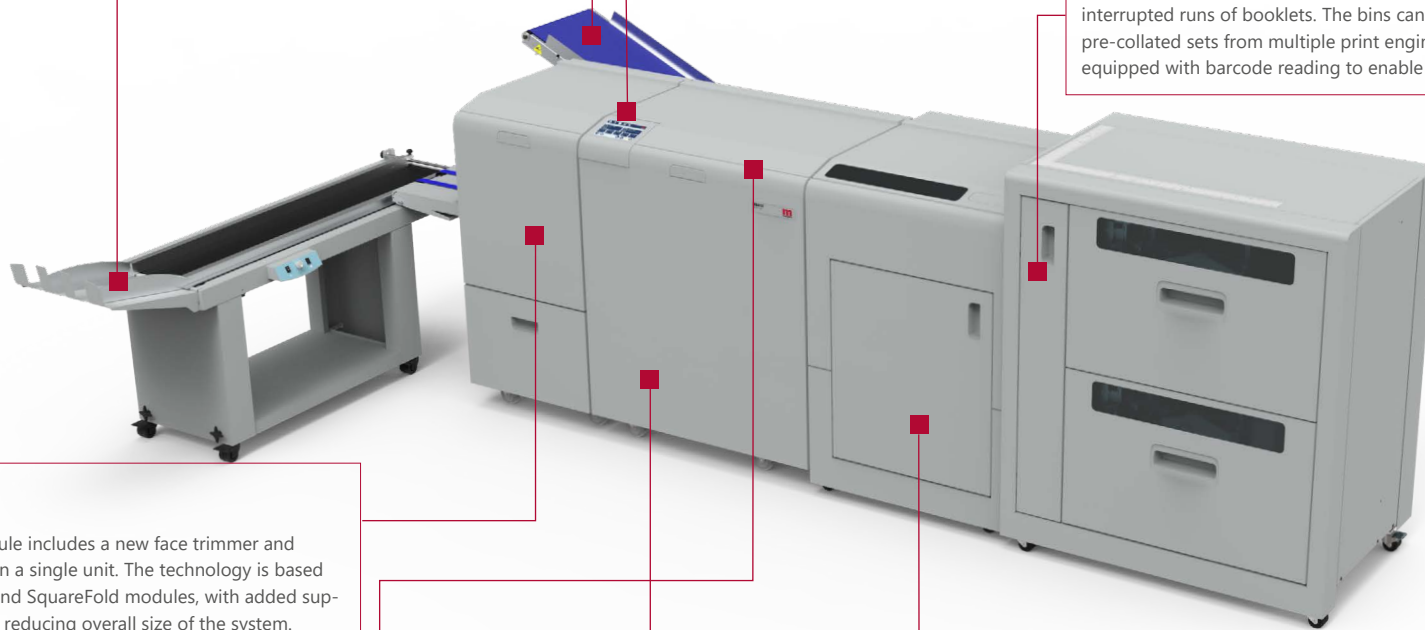
CST Trim Waste Conveyor The trim waste Conveyor is ideal for more production-oriented sites of full bleed booklets. The belt takes the trim waste from the CST and removes it into a larger waste bin.

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.

VFX High Capacity feeder
The VFX high capacity dual bin feeder gives the ability for long un-interrupted runs of booklets. The bins can 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.

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.

BM4035e/BM4050e Production Booklet Makers
The Morgana BM4000e series can staple and fold booklets up to 35 sheets (*BM4035e*) or 50 sheets (*BM4050e*). From A6 booklets up to A4 Landscape and more. It can also corner and edge staple documents for an even wider range of applications.

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.

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.
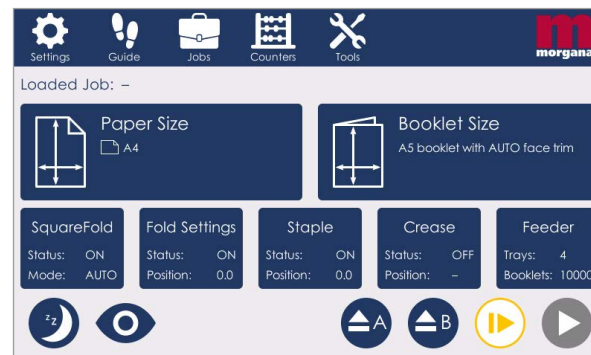
With new trimming capabilities, the new, moving knife can cuts down to 99mm long booklets in a single cut, speeding up the process to enables a wider range of trimming inline. This gives the operators booklet size flexibility without the need to handle custom sized paper.

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

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 (80gsm 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 BM4000e 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 BM4035e/BM4050e 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:

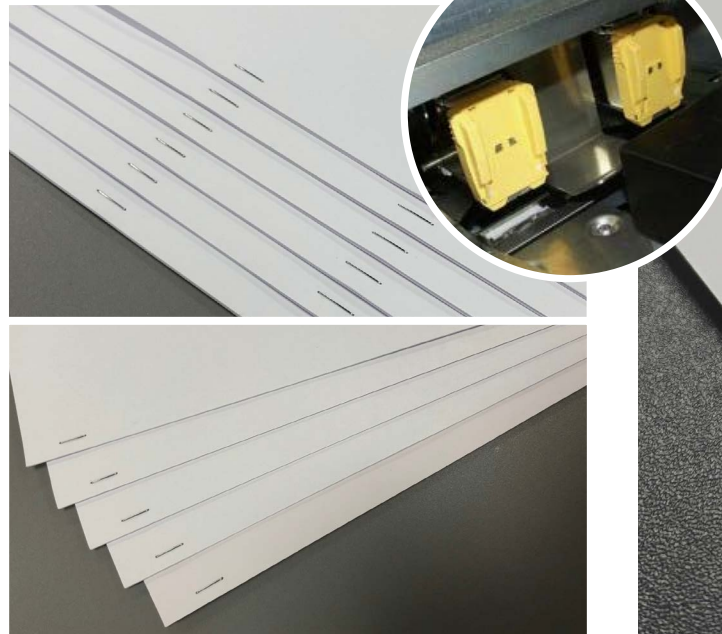| 1D Barcode:	2D Barcodes:
Code-39	DataMatrix
Reader can handle 10mil resolution on BCR code	PDF417
	QR code

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

BM4035e / BM4050e 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 a 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.

BM4035e / BM4050e Corner and edge stapling

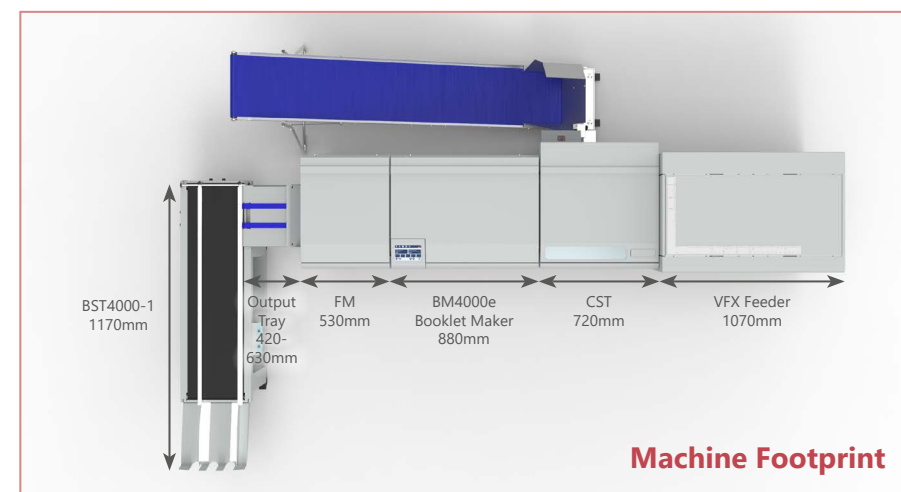|	
Paper weight (Edge stapling):	80-120gsm
Paper weight (Corner stapling):	80gsm
Paper size (Edge stapling):	A4 Landscape or Portrait
Paper size (Corner stapling):	A4 Portrait

CST Crease Side Trimmer (Optional)

Stock weight: min	As BM4000e series
Stock weight: max	As BM4000e 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

Machine Footprint

BST4000-1 1170mm | Output Tray 420-630mm | FM 530mm | BM4000e Booklet Maker 880mm | CST 720mm | VFX Feeder 1070mm

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