



BM5000 Series with VFX Feeder

Morgana BM5000 Series



A new kind of Booklet Maker that can produce **landscape format books,** 2-up and more. The BM5050S, with optional **4 stitching** heads means **higher productivity and efficiency.**

Morgana BM5000 Series

Morgana BM5035 and BM5050

The Morgana BM 5000 series is the latest member of the Plockmatic Group booklet making family, engineered for mid-to-high volume customers with features exclusive to this class. This versatile system can be equipped with an optional CST and VFX Feeder.

The BM5000 series seamlessly delivers professionally finished books with a SquareFold spine. A wide range of booklets, including A4 landscape applications can be produced by processing sheets up to 620mm long.

The BM5050S, with its optional 4 stitching head configuration, lets you finish jobs that have been imposed 2 up on a sheet. This functionality offers you much higher productivity and efficiency.



BM5035 booklet maker shown with convenience feeder and ST5000 (side Trimmer unit)

Morgana BM5000 Series



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

Morgana BM5035/BM5050 BM5035S/5050S

The booklet maker is available in multiple versions to meet your exact requirement. The BM5035 and BM5050 feature two maintenance-free **staple** heads, and the BM5035s and BM5050s 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, 30 sheets only when using four stitch heads. This functionality offers you higher productivity and reduced costs per book.



Modules

VFX Feeder (Optional): 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 (Mandatory): FM5000 includes the face trimmer and SquareFold assembly in one unit. The combined unit optimises floor space and will support the larger book formats.

CST Crease side trimmer module (Optional): the Crease and Side Trim unit produces professional looking, full bleed trimmed and creased booklets in a cost-effective, compact module. *(Must be used in conjuction with a feeder)*

ST5000/Side trimming module (Optional): The ST5000 is a high end 2-side trimmer and enables a second option to achieve full bleed booklets. The ST5000 cuts the top and bottom of the book after it is stapled and folded to ensure optimal finish. *Note: The ST5000 cannot be combined with the CST 3.0*

50 Sheet upgrade kit: both models can be upgraded to a 50 sheet - 200 page platform with the addition of this kit.

Convenience feeder (Optional): 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.

Trim Waste Conveyor for CST (Optional): The trim waste Conveyor is ideal for more production-oriented sites with production of full bleed booklets. The belt takes the trim waste from the CST and dumps it in to a larger waste bin (larger waste bin not included). Fits all versions of CST.

Waste Transport for FM5000 (Optional): This option to the FM5000 module takes the trim waste from the face trimmer and lifts it up so it can be dumped in to a larger waste container or if the CST Trim Waste Conveyor is included in the configuration the trim waste will be dumped on to the belt sending ALL the trim waste (CST and FM module) to the same place.



Morgana BM5000 Series

BM5000 with CST option

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.

Hand feed capability
This standard feature allows operators to easily drop complete collated sets into the Booklet Maker.

VFX High Capacity feeder (Optional)
The VFX high capacity dual bin feeder gives the ability for long uninterrupted runs of booklets. The bins can be loaded on the run with pre-collated sets from multiple print engines.



Trim Waste Conveyor for CST: The belt takes the trim waste from the CST and dumps it in to a larger waste bin



Finishing module (Mandatory)
The Finishing module now places both SquareFold and Face Trim capabilities in one single module - and comes as standard. It adds the finishing touch with a square folded edge and printable spine. Gives booklets the professional look of a perfect bound book.

BM5035/BM5050 Production Booklet Makers
The BM5050 can staple and fold up to 50 sheets of 80 gsm, which creates booklets of up to 200 pages. The BM5035 is capable of 35 sheets creating 140 page booklets.

CST crease/side trimming module (Optional)
The System 5035/5050 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.

Staple and Stitch options
The Booklet Maker can be specified with either two staples or up to four stitching heads. This gives customers the ability to further tailor their system and finish a wider variety of booklet sizes. The system also can provide edge stitching in one or two locations for even more flexibility.

Convenience Feeder (Optional)
A new optional Convenience Feeder is available with a capacity of up to 800 sheets. It can either feed covers or function as a feeder to make a simple, compact landscape booklet maker without the need for an additional feeder module.

BM5000 with ST5000 option

ST5000/side trimming module (Optional)
The ST5000 is a high end 2-knife trimmer and enables a second option to achieve full bleed booklets. The ST5000 cuts the top and bottom of the book after it is stapled and folded to ensure optimal finish



Morgana VFX Vacuum Feeder

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



VFX Feeder

The Morgana VFX is a 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. You can achieve maximum productivity with the Automatic Tray Switching feature, this enables long unattended runs and the loading of empty trays during a run.

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, the two-tray configuration allows for loading empty trays during a run, which results in uninterrupted production. 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 BM5000 max supported sheet size is 320 x 620mm.

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.

APC Sensor Technology

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

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.

Key features

- 5400 sheet capacity High Capacity Vacuum Feeder
- Utilizes latest vacuum feed technology
- 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
- Altogether, the feeder's automated technology allows it to feed a wide range of today's media with little or no operator adjustment

Morgana VFX Vacuum Feeder - Barcode Reader

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

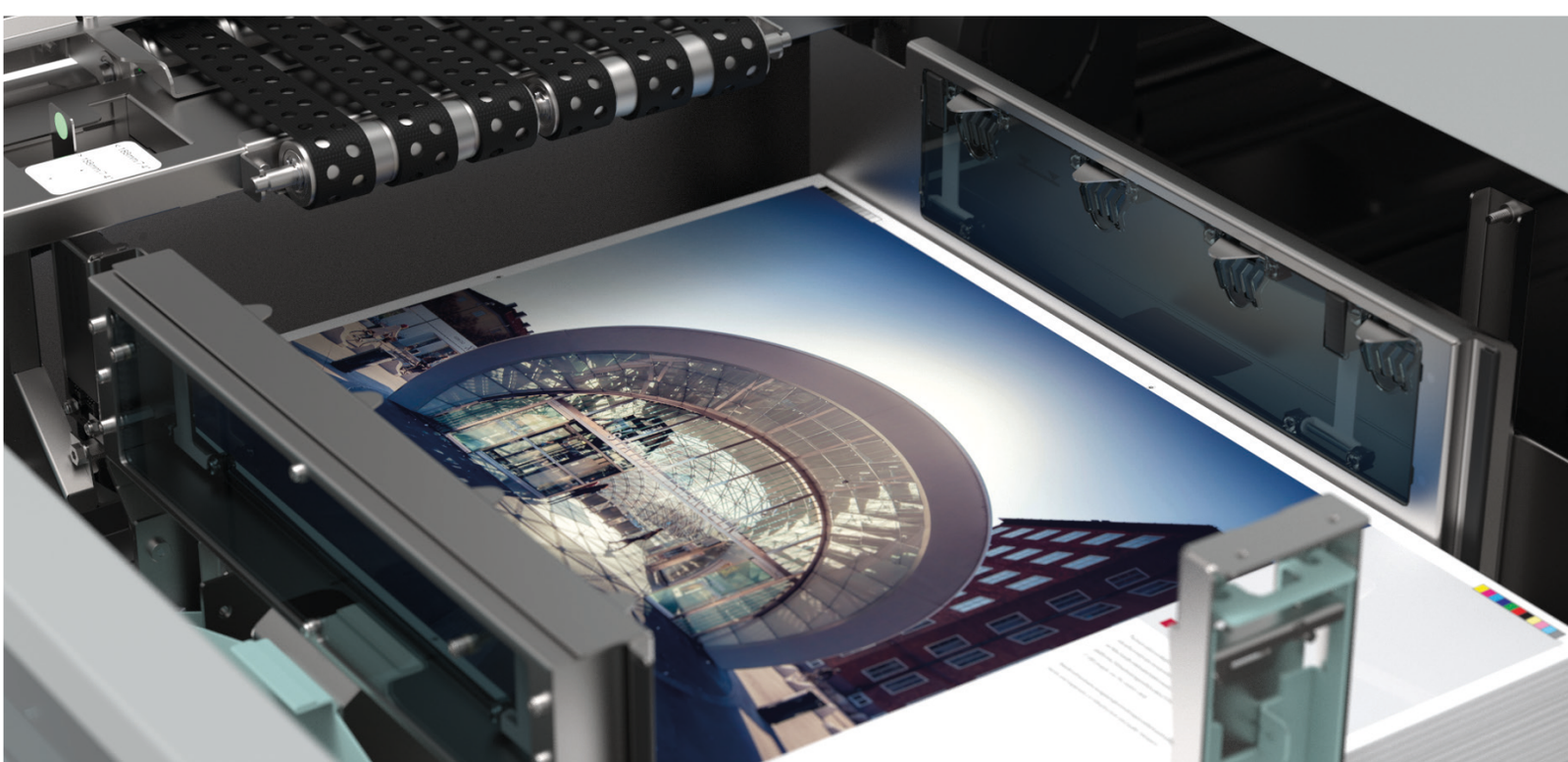
2D Barcodes:

DataMatrix

PDF417

QR code





Technical Specifications

BM5035 / BM5050	
Paper size: min	206 x 210mm (148.5 x 210mm with RCT)
Paper size: max	320 x 620mm without CST, Max: 330 x 620mm with CST
Stapling	Easy change, low maintenance, heavy duty staple cartridges
Staples per cartridge	5000

BM5035S / BM5050S	
Paper size: min	120 x 210mm, Min: 148.5 x 210mm with CST
Paper size: max	320 x 620mm without CST, Max: 330 x 620mm with CST
Stitches	2 or 4 ISP Stitch heads
Stitches per spool	Approx. 50k

BM5035 / BM5050 : BM5035S / BM5050S	
Paper weight: min	Uncoated (Min) 64 gsm, Coated (Min) 105 gsm
Paper weight: max	300gsm - *350gsm supported on selected media
Book thickness	Minimum set thickness - 1 sheet 80gsm (when folded makes an 4 page leaflet)
	Maximum finished book thickness - 10mm (approx 200 pages 80gsm)
	Maximum set thickness – 3.5mm and 5mm (approx. 35 sheets and 50 sheets of 80gsm plain paper). For paper sizes narrower than 148.5mm, max set thickness is reduced to 30 sheets 80gsm plain paper or 3.0mm
Power source	100-230V 50-60Hz

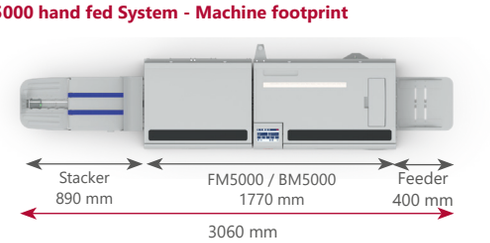
VFX Feeder (Optional)	
Load capacity	5400 sheets
Stock weight	64gsm - 350gsm
Power source	100-240V +6 - 10% (50-60Hz)
Power consumption	650W
Sheet size: max	356 x 660mm 320 x 620mm with BM5000, 330 x 620mm with CST

Convenience Feeder (Optional)	
Load capacity	Approx 800 sheets 80gsm
Stock weight	80gsm - 300gsm *350gsm supported on selected media
Power source	100-240V +6 - 10% (50-60Hz)
Power consumption	250W
Sheet size: max	320 x 620mm
Paper separation method	Air assisted

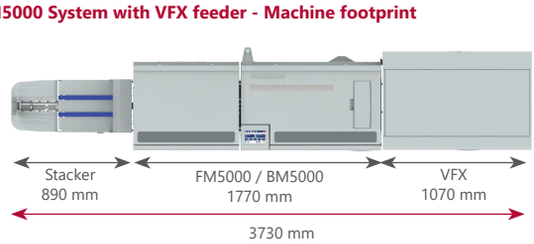
CST Crease Side Trimmer (Optional)	
Stock weight: min	As BM5000 series
Stock weight: max	As BM5000 series
Trim: max	30mm, top & bottom - 60mm total
Trim: min	5mm, top & bottom - bypass possible
Offline use	No

ST5000 (Optional)	
Smallest book size	80mm x 120mm
Stock weight	75gsm - 300gsm
Trim: max	30mm each side
Trim: min	1mm each side - Bypass possible

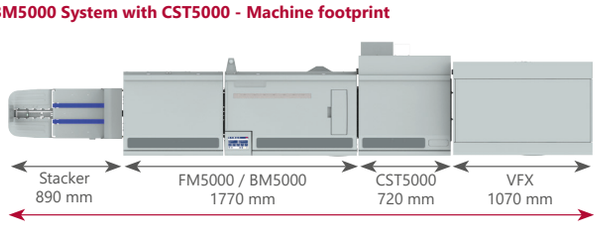
BM5000 hand fed System - Machine footprint



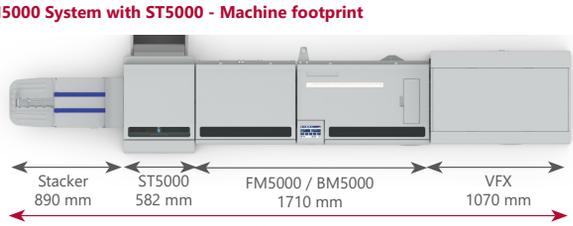
BM5000 System with VFX feeder - Machine footprint



BM5000 System with CST5000 - Machine footprint



BM5000 System with ST5000 - Machine footprint



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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.