Plockmatic Group

morgana

BM5000 Series with VFX Feeder

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 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 11 x 8.5" landscape applications can be produced by processing sheets up to 24.5" 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 equipped with CST unit and VFX Feeder

BM5050S, with optional **4 stitching** heads means **higher productivity and efficiency**

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 systems are engineered for mid-to-high volume customers with features exclusive to this class.

The BM5000 series delivers new applications, for example 11" landscape books, by processing sheets up to 24.5" 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

New VFX Feeder: a high capacity Vacuum Feeder capable of feeding a wide range of paper types with minimal operator adjustment, it includes two paper trays with a combined capacity of up to 5400 sheets.

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 (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.

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.

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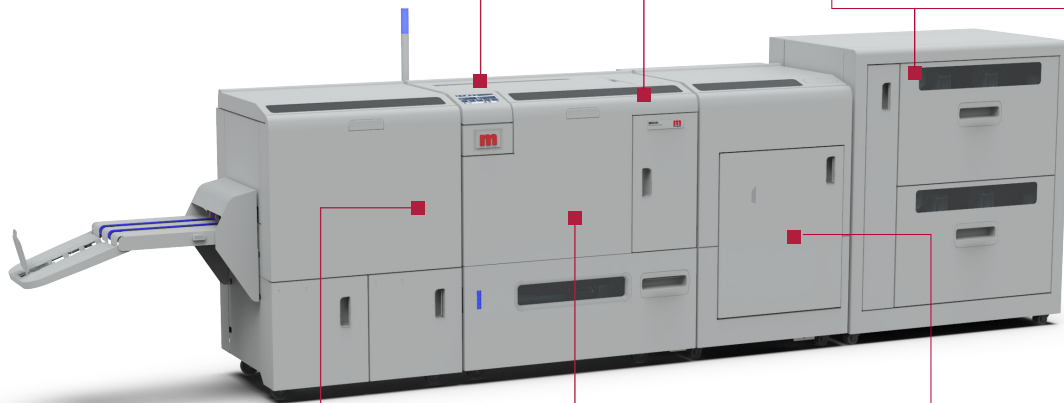
Finishing module
The Finishing module now places both Square-Fold and Face Trim capabilities in one single module - and comes as standard. It adds the finishing touch with a square folded edge and printable spine. Gives booklets the professional look of a perfect bound book.

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.

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.

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.

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 (20lb bond paper) for a total machine capacity of 5400 sheets, and is capable of feeding stock up to 26'' long and 14'' wide, in this configuration with the BM5000 max supported sheet size is 12.6'' x 24.4''.

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.

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.

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.

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

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	PDF417
on BCR code	QR code
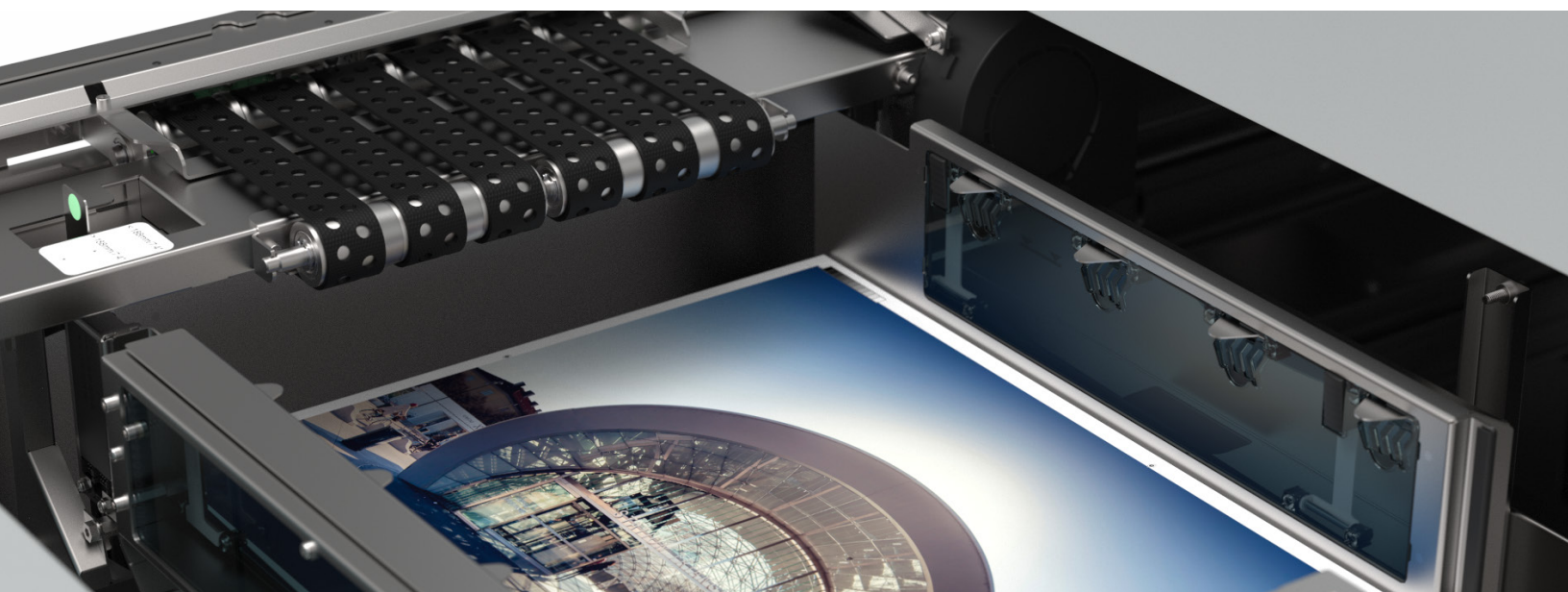
Technical Specifications

BM5035 / BM5050

Paper size: min	8.1" x 8.27"
Paper size: max	12.6" x 24.4"
Stapling	Easy change, low maintenance, heavy duty staple cartridges
Staples per cartridge	5000

BM5035S / BM5050S

Paper size: min	4.72" x 8.3"
Paper size: max	12.6" x 24.4"
Stitches	2 or 4 ISP Stitch heads
Stitches per spool	Approx. 50k

BM5035 / BM5050 : BM5035S / BM5050S

Paper weight: min	18 lb Bond to 110 lb Cover dependent on paper type and quality
Paper weight: max	110lb cover *130lb supported on selected media
Book thickness	Minimum set thickness - 1 sheet 20 lb Bond (when folded makes a 4 page leaflet)
	Maximum finished book thickness - 0.39" (approx 200 pages 20 lb Bond)
	Maximum set thickness – 0.137" and 0.197" (approx. 35 sheets and 50 sheets of 20 lb Bond plain paper)
Power source	100-230V 50-60Hz
Power consumption	250W

VFX Feeder (Optional)

Load capacity	5400 sheets
Stock weight	16lb bond - 130lb cover
Power source	100-240V +6 - 10% (50-60Hz)
Power consumption	650W
Sheet size: max	14 x 26" 12.5" x 24.5" with BM5000, 13"x 24.5" with CST

Convenience Feeder (Optional)

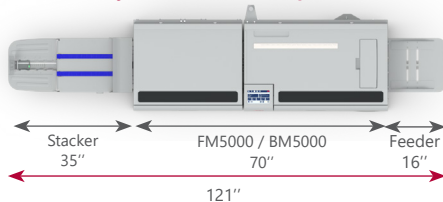|	
Load capacity	Approx 800 sheets 20lb bond
Stock weight	16lb bond - 110lb cover *130lb cover supported on selected media
Power source	100-240V +6 - 10% (50-60Hz)
Power consumption	250W
Sheet size: max	12.6' x 24.4"
Paper separation method	Air assisted

CST Crease Side Trimmer (Optional)

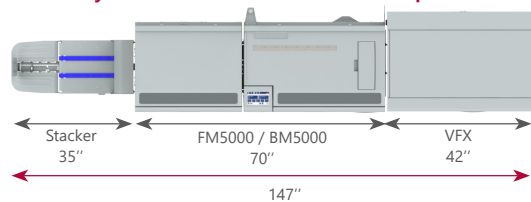|	
Stock weight: min	As BM5000 series
Stock weight: max	As BM5000 series
Trim: max	1.18", top & bottom - 2.36 total
Trim: min	0.20", top & bottom - bypass possible
Power Source	From BM3035/3050

ST5000 (Optional)

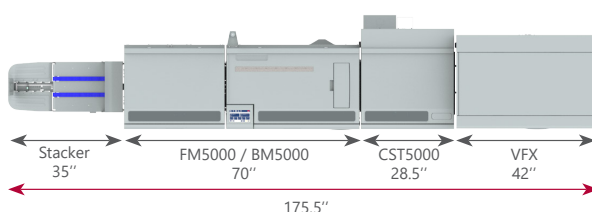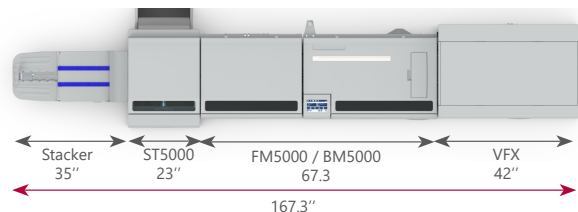|	
Smallest book size	3.5" x 4.73"
Stock weight	18lb bond - 110lb cover
Trim: max	1.18" each side
Trim: min	0.039" each side, bypass also possible

BM5000 hand fed System - Machine footprint

Stacker 35" | FM5000 / BM5000 70" | Feeder 16"
121"

BM5000 System with VFX feeder - Machine footprint

Stacker 35" | FM5000 / BM5000 70" | VFX 42"
147"

BM5000 System with CST5000 - Machine footprint

Stacker 35" | FM5000 / BM5000 70" | CST5000 28.5" | VFX 42"
175.5"

BM5000 System with ST5000 - Machine footprint

Stacker 35" | ST5000 23" | FM5000 / BM5000 67.3 | VFX 42"
167.3"

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