MBO

KOMORI Group

Innovative Finishing Solutions

mboamerica.com | 609.267.2900 | sales@mboamerica.com

MBO's Modular Rollfed Finishing Concept

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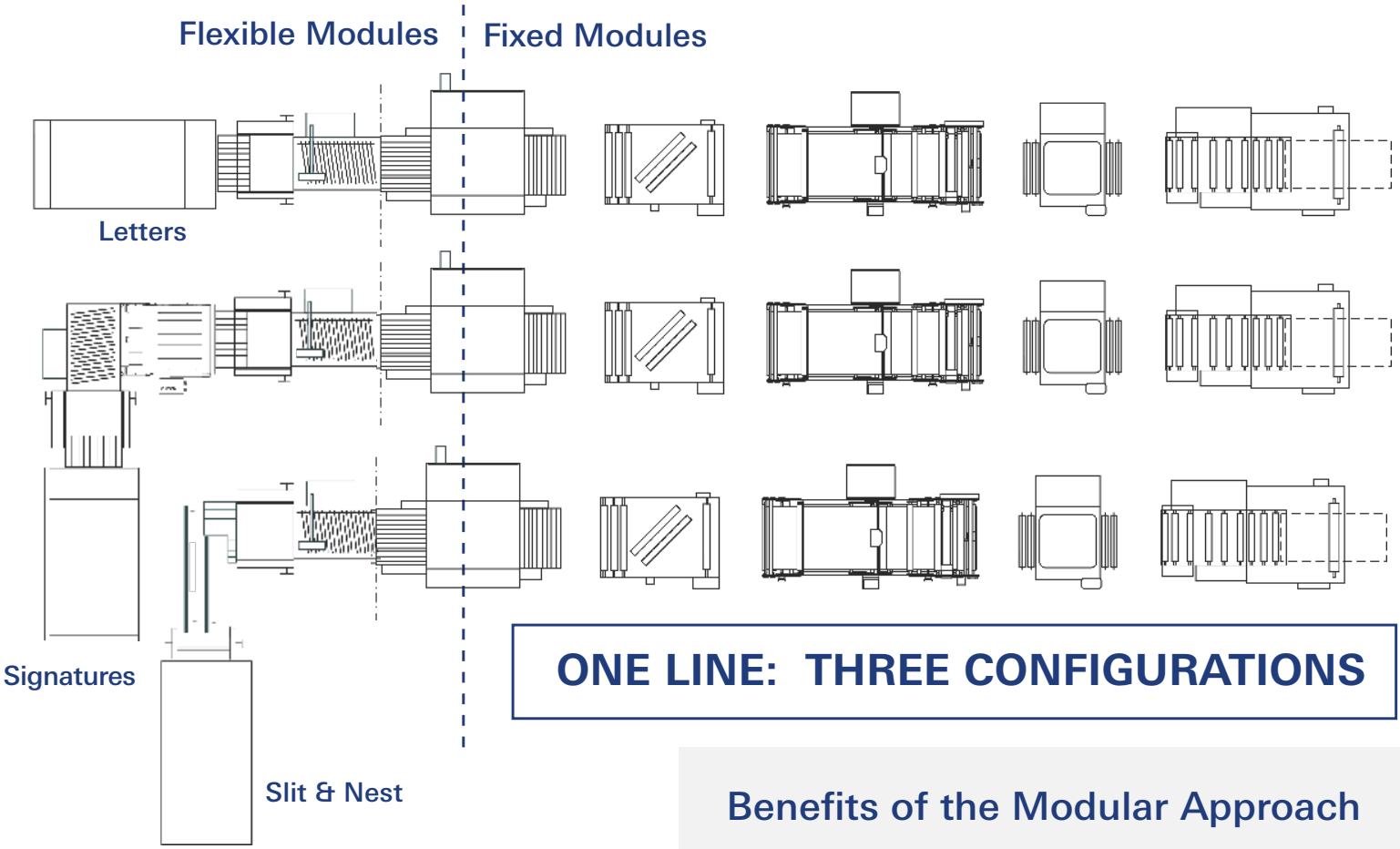

ONE LINE: THREE CONFIGURATIONS

Benefits of the Modular Approach

- Flexibility to meet various customer needs
- One-step finishing
- Mix-and-Match modules to create new products
- Many available modules including: Cutting Units, Folding Machines, Registration Tables, Plow-folding & Knife Folding Units, Glue Application Systems (Hot or Cold), Wide Range of Deliveries

"One of the best things about MBO is that it's very modular, and you can add to it at a later time when you accumulate that kind of work".

"What I like is that I know that everything communicates with it. I know I can just get it whenever I need it... MBO is not only modular, but they have so many things to offer that I know that they have a solution".

- ***Ray Hoshell & John Dahlke***
  VisoGraphic

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Explore additional features, watch videos, and request a quote.

Rollfed Letterfold/Postcard Solutions

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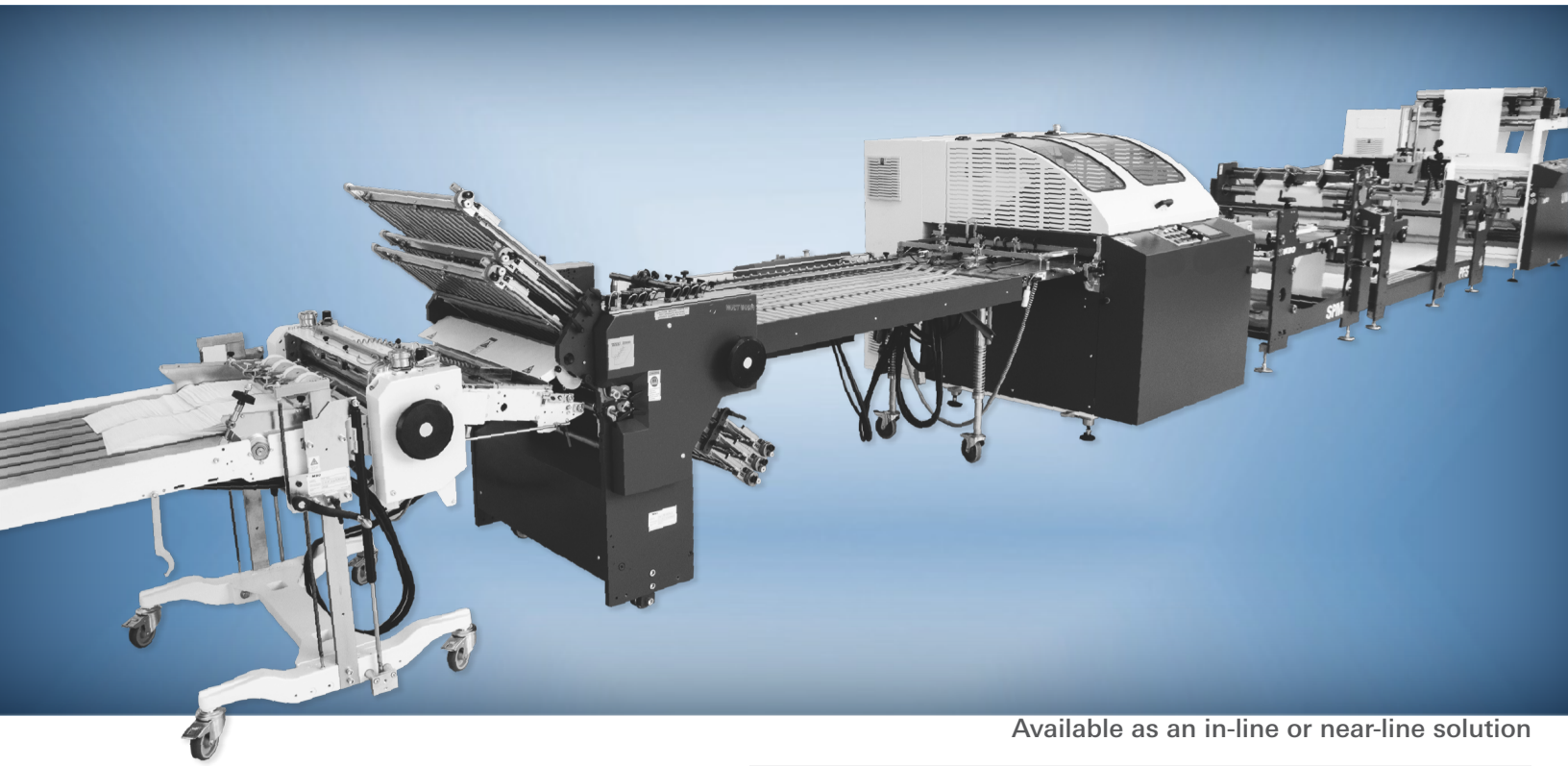

Available as an in-line or near-line solution

The Direct Mail Market

MBO's high speed letterfold system is the most popular solution for roll fed finishing in the commercial print market. The modular design concept integrates the capabilities of MBO's buckle folder technology to the web finishing market, easily adapting itself to most any format letter, or newsletter layout. With a maximum web speed of 824fpm, 4" to 80" variable cutoff, and low labor requirement, there is no better way to finish your mail piece directly from the roll.

MBO's modular design offers unmatched flexibility to grow with your business and keep pace with changing market demands. Add modules for dynamic perforating, scoring, coating, plowing, gluing, trimming, gatefolds, or split-and-merge to create highly customized, premium results. With these capabilities, MBO finishing systems help you produce mail pieces that capture attention, stand out from the competition, and drive stronger response rates.

Specifications

- Web Width Max .....23"
- Cutoff Length .....4" to 80"
- Max Web Speed 824fpm
- Interface .....Nearline or In-line
- Configuration .....Modular
- Sheet Trim .....Chip-Out, Edge Trim, Gully Cut
- Fold Plates 6/4
- Output .....2 - 4 Streams
- Embellishment .....Dynamic Perf, AQ - UV Coating
- Delivery Systems .....Shingle, Stack, Bundle

Application, environment, operator skill and substrate conditions could affect published ratings.

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Explore additional features, watch videos, and request a quote.

Rollfed Self-mailer Solutions

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Recommended for near-line solutions

Self-mailers for Marketing

MBO steps up their roll finishing portfolio with modules that cut, fold, perf, score, tip-on and glue, using up to 12-pt stock, all in one step. The key to success for production of complex products is to use a single step finishing process. MBO's modular concept shines in this niche where finishing lines can be reconfigured easily and quickly for multiple process finishing. New plug and play modules can be easily added to existing lines preserving your initial investment while still growing with the needs of your customers.

Specifications

- Web Width Max .....23"
- Cutoff Length .....4" to 80"
- Max Web Speed 500fpm
- Interface .....Nearline Recommended
- Configuration .....Modular
- Sheet Trim .....Chip-Out, Edge Trim, Gully Cut
- Fold Method .....Plow Vacuum Table
- Output .....1 - 2 Streams
- Embellishment .....Dynamic Perf, AQ - UV Coating
- Delivery Systems .....Shingle Recommended

Application, environment, operator skill and substrate conditions could affect published ratings.

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Rollfed Miniature Folding Solutions

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Miniature Folding From MBO

This solution serves a niche industry serving medical, pharmaceuticals, cosmetics, electronics and other specialty packaging, also known as product information inserts or PI's. The segment uses a wide range of stocks from 40gsm pharma paper to glossy commercial grades. The roll fed sheeting system is used as a feeding unit, able to send trimmed, perfed, scored, and cut sheets to the H+H miniature folding and finishing modules. Along with folders that can have up to 24 buckle plates and fold lengths as low as 3/4", special modules that press, glue, label, vertically stack and automatically tray the product are integrated into these solutions. The goal is to fully finish the product in one step to reduce turn time and keep labor requirements as low as possible.

Specifications

- Web Width Max .....23"
- Max Web Speed 500fpm
- Interface .....Nearline or In-line
- Configuration .....Modular
- Stock Range .....40gsm to Cover wts.
- Fold Lengths .....3/4" and up
- Buckle Fold Plates .....6 to 24
- Layout .....1 up to 4 up

Application, environment, operator skill and substrate conditions could affect published ratings.

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Explore additional features, watch videos, and request a quote.

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Rollfed Book Finishing Solutions

Saddle-stitch for Digital Print

Digital stitchers can be paired with MBO roll fed or cutsheet finishing systems to produce a variety of stitched products, directly from the roll or sheet. These systems allow for purely digital products, all conventional products and a hybrid product marrying the benefits of traditional offset and digital print, with self-covers or separate covers. With speed ratings up to 14,000 books per hour, selective folding to reduce blank pages, and dynamic perfing for page embellishment, there is no better or more productive solution available than having an MBO rollfed or cutsheet infeed on your digital stitching solution.

Specifications

- Web Width Max .....23" or 30"
- Cutoff Length .....4" to 80"
- Booklet Formats .....A4, A5, Tabloid, 8.5"x11", 5.5"x8.5"
- Interface .....Nearline
- Configuration .....Modular
- Fold Plates 6
- Booklet Build .....Signature Based
- Page Jumps .....Selectable, 4 Pages
- Output .....Single or Multiple
- Embellishment .....Dynamic Perf,
- Delivery Systems .....Shingle, Stack, Bundle

Application, environment, operator skill and substrate conditions could affect published ratings.

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MBO Unwinders and Rewinders

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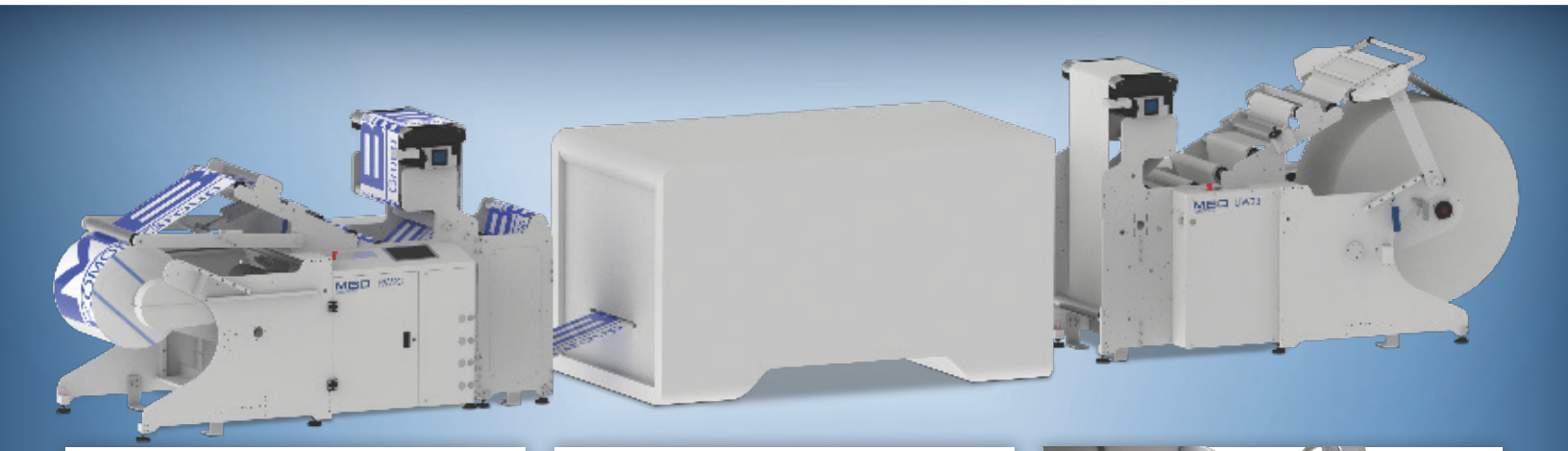
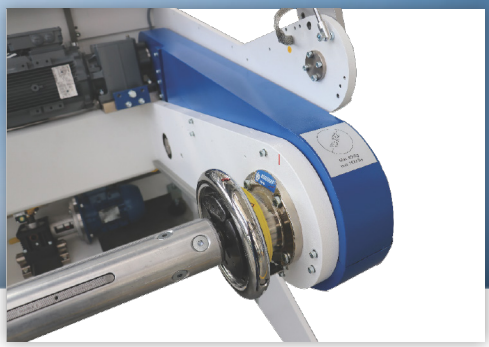


Web Guide

Splice Table



Shaft Chuck

Roll Processing from MBO

MBO concentrates on the 23" inkjet market with its UW23 and RW23. Printing and finishing is all about tension: "Control the tension well and the final result will show well." Press and finishing uptime is directly related to the quality control of unwound and rewound rolls. MBO unwinders and rewinders are designed with an isolated festoon integral to the unit, large diameter rollers to reduce curl and easy operation and web up.

Whether unwinding rolls for tight web, high speed finishing, or unwinding and rewinding on an inkjet press, MBO's UW23 and RW23 close the loop on the process.

Specifications

- Web Width Max .....23"
- Tension Method .....Tight Web, Core Driven
- Max Web Speed 824fpm
- Interface .....Nearline or In-line
- Configuration .....Modular
- Stock Range .....40gsm to 300gsm
- Roll Diameter Max .....52"
- Output .....2 - 4 Streams
- Make-ready Features .....Splice Table, QR Roll Chuck
- Sidelay .....Automatic Web Guide

Application, environment, operator skill and substrate conditions could affect published ratings.

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Explore additional features, watch videos, and request a quote.

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Embellishment Solutions
Flood Coating For Printed Webs

FC 23 Coater

Flood Coating the Web

Coating is an easy embellishment that adds value to the finished product, making them stand out from the rest. The FC 23 Coater can apply Aqueous or UV coatings using an easy to make-ready system that is completely self-contained. MBO America's long history in the commercial print space taught us that the majority of finishing lines for the direct mail and advertising markets included a coater to add value to the ad piece. Look to the FC 23 to add value to the personalized messaging provided by your Continuous-Feed Inkjet press.

Specifications

- Web Width Max .....23" or 30"
- Coating Type .....Aqueous and UV
- Application method .....Anilox Flood Coat
- Max Web Speed 500fpm
- Drying Type .....IR and UV
- Configuration .....Vertical Stand Alone
- Interface .....Type 1 Self Contained
- Location .....In-line with Press or In-line with Finishing
- Changeover .....Cassette & Sleeve
- Laydown .....Single Side or Double Side

Application, environment, operator skill and substrate conditions could affect published ratings.

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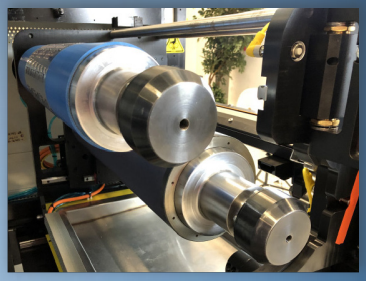
Embellishment Solutions
Spot Coating For Printed Webs

SSC 23 Coater



Quick Change Sleeves

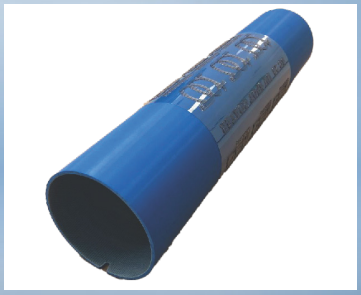


Image Cylinder Sleeve and Plate

Spot Coating the Web

Adding a tactile or visual uniquness to the finished product greatly improves the conversion rates for direct mail and advertising. The SSC 23 Spot Coater applies a registered UV coating to a select part of the image, matching the printed image and focusing the viewers curiosity. The anilox based system with flexible plates makes it easy to add additional value to any press or finishing line. Look to the SSC 23 to add value to the personalized messaging provided by your Continuous-Feed Inkjet press.

Specifications

- Web Width Max .....23"
- Coating Type .....UV
- Application method .....Anilox Coat/Plate Cylinder
- Max Web Speed 500fpm
- Drying Type .....UV
- Configuration .....Vertical Stand Alone
- Interface .....Type 1 Self Contained
- Location .....In-line with Press or In-line with Finishing
- Changeover .....Cassette & Sleeve
- Laydown .....Single Sided or Either Side

Application, environment, operator skill and substrate conditions could affect published ratings.

Scan to Learn More

Explore additional features, watch videos, and request a quote.

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Embellishment Solutions
Dynamic Perforation & Scoring

Adding Value to Finishing

The DPS60 adds perforations and score lines directly in-line, making mail pieces and marketing materials more engaging. Its compact footprint integrates easily with press and finishing systems while offering both static and dynamic patterns. With soft anvil scoring, fold cracking is reduced—especially on digitally printed products—so you deliver cleaner results without extra offline steps.

The CC23 brings high-speed rotary contour cutting to your production line, creating custom shapes that grab attention. Along with contour cutting, it can perforate, crease, and kiss-cut at full speed. By connecting seamlessly with MBO systems, it enables you to expand into unique, premium products while maintaining high productivity.

Specifications - DPS 60

- Web Width Max .....23" or 30"
- Blade Placement .....1" to 80"
- Anvil Material .....Soft
- Max Web Speed .....500fpm (subject to config.)
- Configuration .....Modular, Scalable
- Stock Range .....40 gsm to 250 gsm

Specifications - CC 23

- Max. Speed Rating 800fpm
- Web Width Range .....8" to 23"
- Stock Range .....80 gsm to 200 gsm
- High Pressure Air .....90 PSI
- Power .....480 VAC, 3 Phase, 30 AMP 60 Hz

Application, environment, operator skill and substrate conditions could affect published ratings.

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Explore additional features, watch videos, and request a quote.

ZSS 23 Splicer

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Zero Speed Automatic Splicer

The MBO ZSS 23 Horizontal Zero Speed Splicer further reduces makeready and increases up time of finishing lines. Using butt splice technology, the ZSS 23 automatically attaches a full roll to the end of an expiring roll so the press or finishing line can operate non-stop. For longer runs, rolls can be spliced into the line to keep it running, reducing the normal downtime of a manual unwinder by 10-15 minutes per roll. For example, lines finishing a 100# text weight roll (about 30,000 feet) nearly every hour at 500 fpm, gain about 20%-25% uptime using the ZSS 23. Makeready time for stock changes is greatly reduced because the roll can be prepared in advance while the current job is ending, then spliced in immediately.

Specifications

- Web Width .....10" to 23"
- Maximum Speed .....800 FPM
- Roll Diameter .....14" to 50"
- Max Roll Weight .....3,000 lbs
- Stock Range .....60 gsm to 300 gsm
- Core Diameter .....3" or optional 6"
- Power .....480 VAC, 3 Phase, 150 AMP
- High Pressure Air .....90 PSI Clean and Dry
- Connectivity .....Internet Connection Required

Application, environment, operator skill and substrate conditions could affect published ratings.

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Explore additional features, watch videos, and request a quote.

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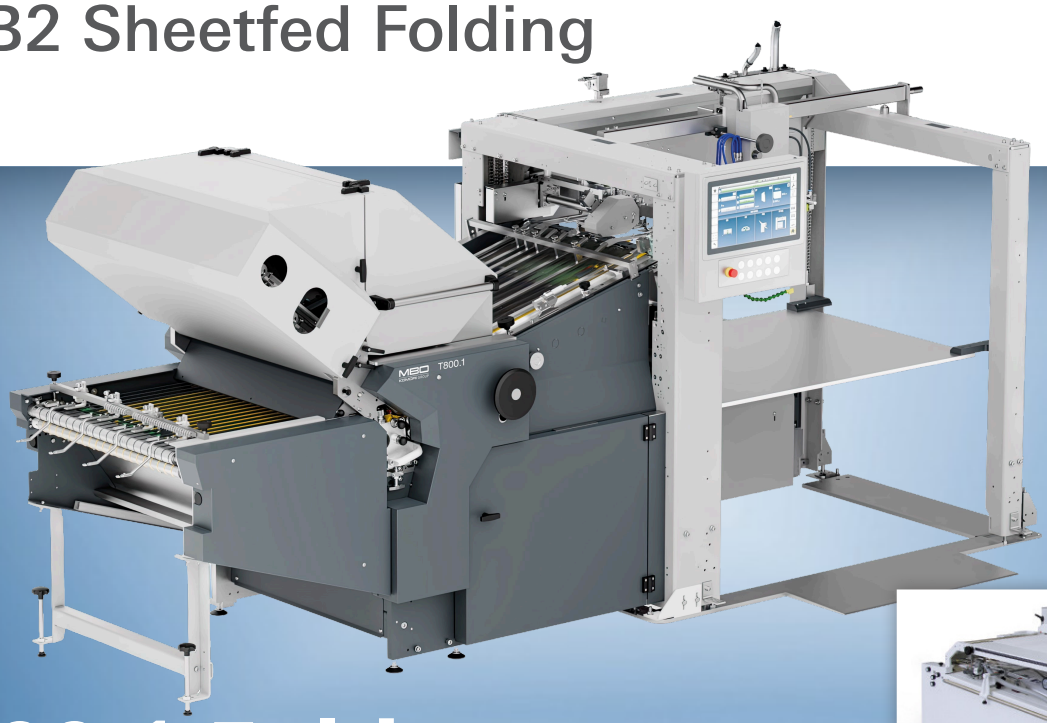
B1/B2 Sheetfed Folding



Pallet Feeder

T800.1 Folder
T50 Folder

Continuous Feeder

Premium Buckle Folder

The T800.1 is MBO's premium buckle folding machine for full size B1 and smaller sheet sizes. With a blazing 230 meter/minute maximum speed and wide range of fold pattern capabilities, it is well suited to the North American commercial print market. Common 25"x38" sheets can be processed up to 13,755 sheets/hour, and smaller sheets even faster! Even with conservative estimates, this represents a substantial increase in production rates over nearly any earlier vintage folding machine. With MBO's latest M1 controls platform using a simple graphical interface, connectivity to Datamanager 4.0, Remote Access Service and automated functions, the T800.1 provides more uptime and maximum productivity.

Pile Feeder

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B1 Signature Folding

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Premium Combi Folders

With production speeds up to 275 m/min, common 25" x 38" sheets can fold at speeds up to 16,655 sph, MBO's combi folder platform is well suited to the high-performance production of signatures, and other general commercial products. The K-Series, with a variety of models and configurations to fit any application, is packed with advanced features, yet incorporates reduced power consumption so important to preserving our environment. It focuses on the highest level of sheet control, fast make-ready, high productivity, extended uptime, low labor requirement and the best ROI possible. Even conservative estimates show new folders are able to replace earlier vintage folding machines at 2:1 ratios or more!

M1 Machine Controls

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Explore additional features, watch videos, and request a quote.

BSR 550 / BSR 750 Diecutting Solutions

Precision Die-cutting

The Bograma BSR 550 is a modular, rotary die cutting system designed for B2 (20"×29") sheets. The Bograma BSR 750, by comparison, is designed for B1 (20"×48") sheets. This versatile machine's main use is die-cutting, scoring and embossing for products in the packaging and commercial print space. Unlike flatbed die-cutters, the rotary process does not require nicks in the sheet allowing the waste to be stripped out automatically, producing a "nickless", high quality product – which eliminates the need for further stripping or blanking labor. Magnetic flexible dies can thru-cut, kiss cut, perforate, crease and emboss and are widely available. The modular nature of the machine allows for integration directly with other MBO finishing modules such as folders, gluers, web sheeters and onserters.

Specifications

- Maximum Speed .....Up to 12,000 sph
- Feeder .....Pile, Pallet, or Web
- Working Width .....max. 550 mm
- Sheet size .....min. 297x210mm
  max. 550x750mm
- Product thickness .....min. approx. 80 g/m^2
  max. approx. 0.5 mm
- Stripping Station .....Stripping elements
  with integrated rollers

Application, environment, operator skill and substrate conditions could affect published ratings.

Scan to Learn More

Explore additional features, watch videos, and request a quote.

CoBo-Stack 10i/30i Automation Solutions

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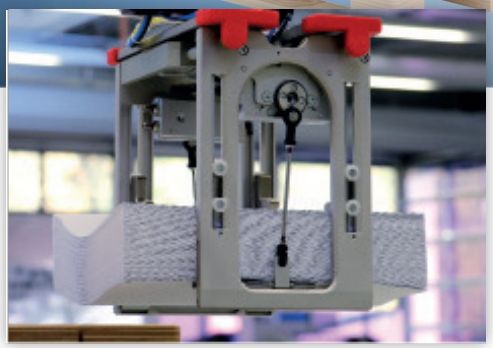

Multiple Gripper Sizes

55" Stacking Height

Two Pallet Spaces

Automated Stacking

The MBO CoBo-Stack is a completely automatic collaborative robot that automatically transports stacks of folded signatures, books and other applications to a proper pattern on a pallet, reducing the physical demands of the operator. The CoBo-Stack is autonomous, needs no breaks, and is fast to reposition and makeready. There is no need for the operator to remain directly at the production machine, giving them time to carry out administrative tasks making it possible to have 1 operator running 2 machines in a true manufacturing cell. The CoBo-Stack truly fits the new print industry, demanding high productivity with minimal labor and set up time.

Specifications

- Stack Height .....min. 2 1/4"
  max. up to 6"
- Stack Weight .....max. up to 8 kg
- Stacks per hour .....max. up to 300
- Pallet Height .....max. up to 55"
- Gripper Sizes .....4 sizes available

Application, environment, operator skill and substrate conditions could affect published ratings.

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Explore additional features, watch videos, and request a quote.

Agilox / AMR

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Agilox One

Intelligent Material Handling

The MBO AMR/AGILOX brings automation beyond the finishing line by autonomously transporting materials where they're needed, when they're needed. Using advanced sensors and intelligent navigation, it safely moves pallets and printed products throughout your facility without fixed tracks or operator intervention. By reducing manual transport, improving workplace safety, and keeping equipment continuously supplied, the MBO AMR/AGILOX helps maximize productivity while creating a smarter, more efficient print production environment.

Specifications

- Max. Lifting Weight .....1,000 kg
- Max. Lifting Height .....620 mm
- Lifting Concept .....Electric, 2-fold spindle
- Max. Station Height .....500 mm
- Max. Speed .....1.4 m/s (ca. 5 km/h)

Application, environment, operator skill and substrate conditions could affect published ratings.

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Parts Store

MBO KOMORI Group

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Services

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Installation

You can trust our MBO Certified Techs to have your machine installed quickly and running smoothly. We provide a complete package starting from unpacking the shipping containers to commissioning the equipment to run.

Maintenance

Whether you need a part replaced or your machine is completely down, our Service Team is here to help.

Training

MBO Training courses are designed to increase your operator's understanding of paper behavior, folding principles, issue troubleshooting and problem resolution.

Relocation

Our Service Team can advise you on the logistics and on the necessary requirements for the new locations.

Contact MBO Service: 800.626.8810 | service@mboamerica.com

About Us

MBO America was established in 1984 bringing MBO (Maschinenbau Binder Oppenweiler of Germany) folding equipment to the growing US market. Unmatched innovation and dedication to the highest standards of quality made MBO folding equipment an instant success from coast to coast. Now under the umbrella of its parent Komori Corporation, the MBO Group, including Herzog+Heymann, continues to be the leader in post press finishing for the North American Market. MBO America is strategically located in Marlton, NJ, just outside of Philadelphia, and offers a broad array of cutting edge, high-performance finishing solutions for offset, cutsheet and roll-fed digital, hybrid, and pharmaceutical production segments. To be more effective in the North American market, MBO America has taken on the model of a systems integrator, seeking to provide one step production systems for commercial folding, diecutting, roll-fed web finishing and specialty product systems in the direct mail and pharmaceutical markets. From intricate folds and die-cuts to niche packaging with special standards, MBO gives printers an edge over the competition with next-generation achievements.

MBO, H+H and MBO America are internationally known for superior customer and technical support, as well as top-notch consultation services. Our history of pioneering new technology provides the platform for us to serve our customers from concept, through sale and implementation. Year after year, MBO America brings new products and technology to the market that work through industry challenges. Through greater automation, faster make-ready, idle-time and downtime reduction, and overall increased productivity, MBO America ultimately increases profits for its customers.

No matter the solution, we are constantly raising the bar with every configuration in our portfolio. Our modular approach means that each of our finishing systems can be customized to fit your product needs. MBO means modularity, efficiency, productivity and flexibility.

Our Company

MBO KOMORI Group

H+H KOMORI Group

KOMORI

Our Partners

BOGRAMA next level die-cutting

SCREEN

hp

hhs Baumer Group

Canon CANON SOLUTIONS AMERICA

ascentium CAPITAL

Partners CAPITAL GROUP

IFSC

BDT PRINT MEDIA

CAPITAL ADHESIVES Building Bonds that Last

AirTrim PNEUMATIC CONVEYING SYSTEMS

palamides

LUNDBERG TECH Our waste handling keeps production going

hohner perfection in postpress

ro ROBATECH

RICOH imagine. change.

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