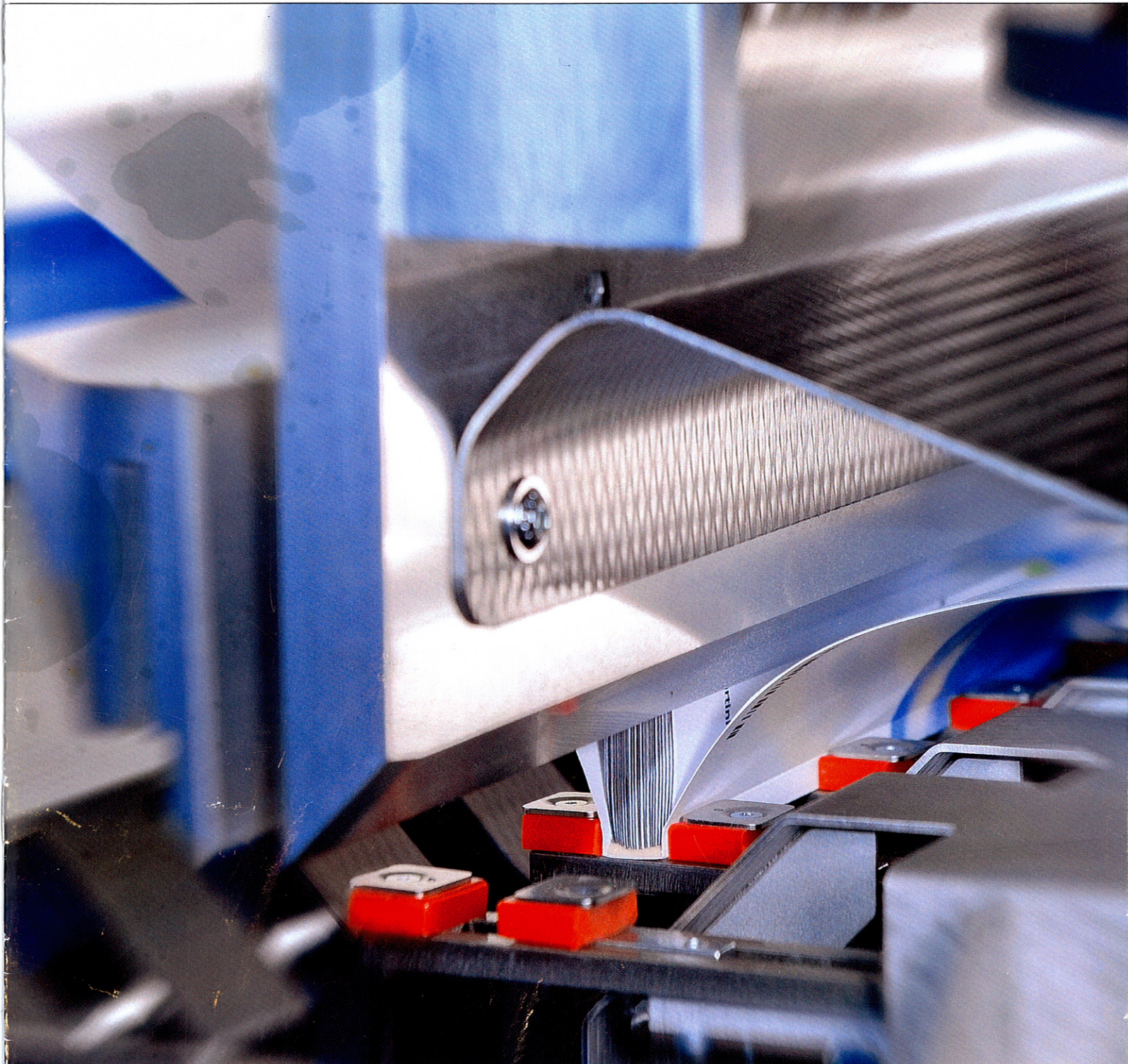


Vareo Perfect Binder

The Compact All-Rounder for Maximum Binding Quality



Vareo Perfect Binder

The Quick Way to Get High-Quality Books

The Vareo is the ideal perfect binder for print finishing specialists and printing plants that use conventional printing modes or are engaged in digital printing. The three-clamp perfect binder with a mechanical performance of up to 1350 cycles per hour provides maximum flexibility. Whether for medium or short runs, right down to runs of one copy, the Vareo is an all-rounder for high-quality results, regardless of whether brochures are produced using offset or digital printing.

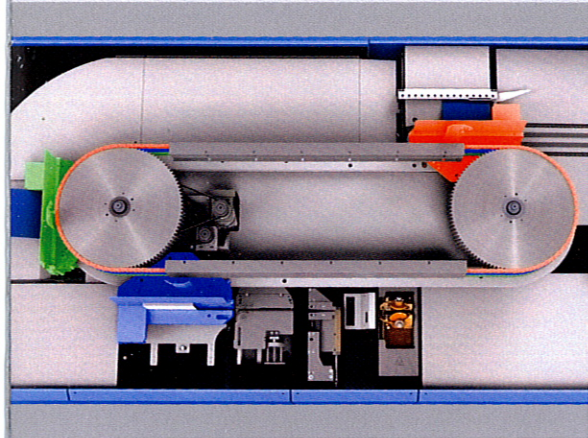
The flexible equipment of the Vareo enables diverse applications. Photo books, personalized catalogs and high-quality brochures can be produced cost-effectively thanks to short setup and production times, which are indispensable for ultra-short and one-copy runs. That makes it possible to produce high-quality books within a short time, with the very first book being sellable. In addition, the Vareo has a modular design, which means that the machine can be easily extended and adapted to meet future production requirements.



Advantages of the Vareo Perfect Binder

- ▶ Individual drives for optimal motion
- ▶ Use of hotmelt and PUR
- ▶ Modular design with numerous extension options
- ▶ Integrated station to measure size and book thickness
- ▶ Automatic book block feeding
- ▶ Barcode matching of content and cover
- ▶ Glue application monitoring for PUR nozzle
- ▶ Crash Station

Fully Automated, Featuring an Innovative Drive System



Innovative Drive System

As a first, each clamp of the Vareo is equipped with its own servo motor and is individually driven. As such, the perfect binder combines the advantages of discontinuous drive, i.e. maximum nipping time, with the greater output of a system with continuous drive. The nipping time of the cover, for instance, can be individually adjusted to the product. Each processing step takes place exactly at the time required for optimal product quality and can be individually adjusted to the product. That provides first-class binding quality together with consistent production output – unique in this performance class.

Central Setup Wizard

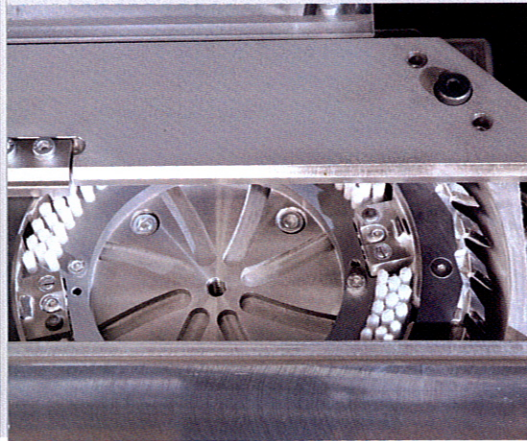
The setup wizard leads the operator step by step through the process of setting up a new job on the central touch screen. The control system provides assistance when making fine adjustments by displaying the desired changes straight on the screen as a preview animation. That enables the operator to check whether the intended effect will be achieved, even before a new book is actually bound. These fine adjustments can be saved for repeat jobs and accessed again. The vibrating unit, which can likewise be set using the touch screen, aligns the book block precisely, before the clamps close.

Optional Book Thickness Measuring System

A particular advantage of the Vareo is the optional book thickness measuring system. It enables efficient single-book production, without any production waste. The book thickness measuring system supports the operator in different ways depending on the type of production.

- ▶ Job changes: the book thickness is entered automatically and all relevant work steps are set accordingly.
- ▶ Single-book mode: during production, the measured book thickness is adjusted entirely automatically from clamp to clamp, enabling the products to be processed continuously without any empty cycles.
- ▶ Batch mode: during production, the book thickness is checked and it is ensured that the book block is complete, in particular to compensate for variations in paper thickness in digital printing.

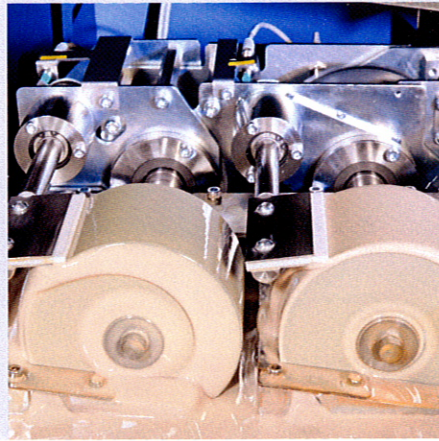
The Quick Way to Achieve High Product Quality



Spine preparation

The high-performance milling tool combines milling, roughening, notching and brushing and can process book thicknesses of up to 60 millimeters. The milling depth can be entered automatically on the touch screen. Digitally printed loose-leaf stacks are also conveyed reliably and stably. The milling station can be lowered for thread-sewn or thread-sealed products.

Height-adjustable notching tools increase the contact area for the glue, which improves the durability of the binding. The roughening tools, which are also height-adjustable, effectively expose the paper fibers and ensure the perfect holding force of the various pages. Paper dust and milling residues are brushed off and optimally suctioned off. A separate chip extraction system adjusted to the given ambient conditions is available specifically for digital printing plants.

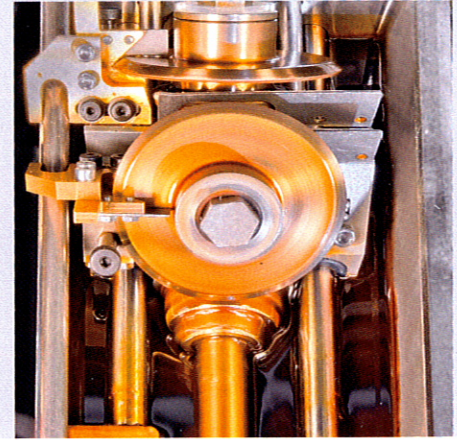


EVA Hotmelt Spine Gluing

To ensure the even application of the glue, the system is equipped with two application rollers for book spine gluing and a height-adjustable, heated counter-rotating spinner. The glue film length and the glue temperature can be controlled via the central touch-screen. Fine adjustments to the glue thickness, e.g. doctor blade opening width and roller height settings can also be entered precisely and be reproduced for repeat jobs.

PUR Roller Spine Gluing

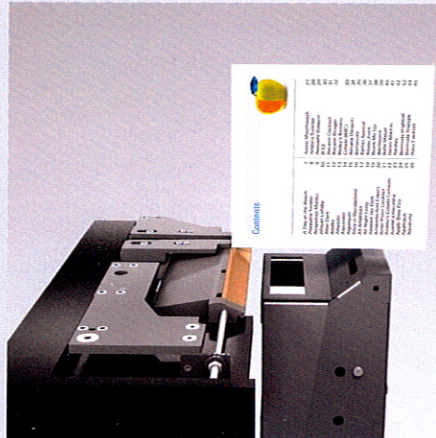
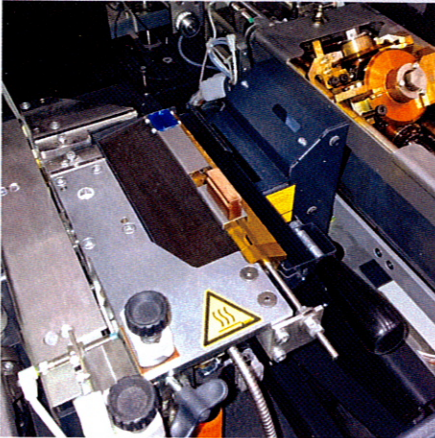
The PUR system is a cost-effective option for companies entering high-quality PUR binding. The system is equipped with two application rollers and a heated counter-rotating spinner to ensure even PUR glue application. The PUR system is used especially for materials that are difficult to process. The fine adjustments for the glue thickness and the glue film quantity can also be entered and controlled via the touch-screen.



Side Gluing

The front and back of the book blocks are glued using large application discs by means of side gluing (EVA hotmelt). The front side-gluing disc adjusts automatically to the measured block thickness during setup. In addition, motorized correction of the side position of either application disc can be made independently of the other disc, in order to glue mushrooming book spines.

Perfect Binding of Consistently High Quality



PUR Nozzle Spine Gluing

The Vareo from Muller Martini provides a fully integrated PUR nozzle application system that is controlled directly on the touch screen. The parameters relevant to the glue film are entered during the setup process and the necessary glue quantity is automatically calculated and delivered in the volume needed. That means the system is independent of the viscosity, temperature and pressure of the glue, and delivers the same glue quantity precisely and in a reproducible manner. Such unique, complete integration provides the operator with optimal process reliability.

The complete nozzle system can be adjusted manually to the book block via the correction system, which is also unique, thereby allowing an even glue film to be applied to the whole book spine.

Glue Application Monitoring for the Book Spine (Optional)

The glue application monitoring system of the Vareo, consisting of a laser and photo sensor, enables monitoring of both the glue film thickness and complete glue application over the whole width and length of the book spine – in real time and for each single copy. The measured layer thicknesses are either displayed as a two-dimensional cross section or as a three-dimensional profile on the touch-screen. That ensures that within a run all brochures are produced within an individually defined tolerance limit, which is essential for perfect binding of consistently high quality.

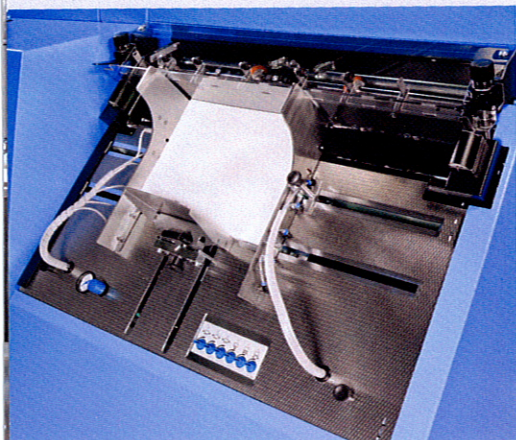
Optional Pre-Melter

The appropriate pre-melter is contained as standard for the PUR roller or PUR nozzle system. It can be positioned inside or outside the machine as preferred. If it is placed outside the machine, there is space, for example, for an integrated crash station. In addition, production does not need to be interrupted during the melting of a new PUR candle. Productivity can be increased by means of an optional pre-melter for hotmelt gluing systems too. Additional glue vapor extraction ensures clean air and fewer impurities in the perfect binder.

Exchangeable Glue Application Systems

The glue application systems are installed in the machine as standard. There is also, however, the option of mounting the systems to a trolley so that they can easily be exchanged. The trolley system can be added later for all application systems.

Complete Products Guaranteed



Vertical Cover Feeder with Scoring Station

The cover feeder can be fed continuously and ergonomically during production. Consistently high scoring quality is achieved by using independently driven shafts and independently adjustable scoring depth on both sides. The vacuum required for cover separation can be controlled individually. The pile guides adjust automatically to the given cover format. The self-calibrating misfeed control and double sheet control is included as standard. Scoring tools for gatefolded brochures are also available as an option.

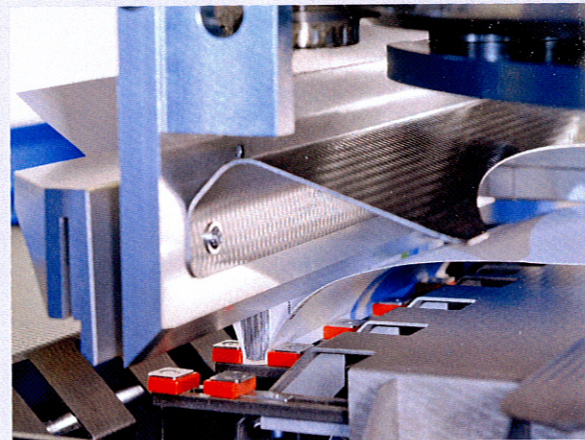
Gauzing station (optional)

A gauzing station can be integrated for the production of layflat books or book blocks for hardcover production. Integrated gauzing monitoring ensures the quality of the gauze stripe on the book spine.



Nipping station

The duration and pressure of the nipping can be set for the given product precisely at the touch-screen. Thanks to the innovative unit drives of the clamps, the maximum possible nipping time is used in order to obtain a pressed, angular book spine. The cover thickness and glue layer thickness are automatically taken into account.



Lift Delivery with Grippers

The book is transferred gently from the clamp to the delivery thanks to integrated grippers with adjustable pressure force. As a result, even challenging brochures, consisting of a thick cover and thin paper for the content, for example, are transferred reliably to the belt delivery. The Vareo always delivers the brochures with the front page facing upwards to ensure that any possible damage to the most important page is avoided.

Barcode Recognition (Optional)

The Vareo can be equipped with an integrated barcode recognition system to ensure that the content and cover match. The cover barcode is checked before scoring, which means that a misfed cover can be reused, instead of becoming production waste.

Integrated Barcode Printer (Optional)

For hardcover print finishing, an integrated ink-jet printer can print

an additional barcode on the bound book block, which can be checked during the subsequent casing-in.

Size Calibration Station (Optional)

A size calibration station is available for even shorter setup times and avoidance of operating errors. It allows measuring book block sizes, cover sizes and scoring positions. The input data are automatically transferred to the control system.

High Level of Investment Protection Thanks to Modular Design

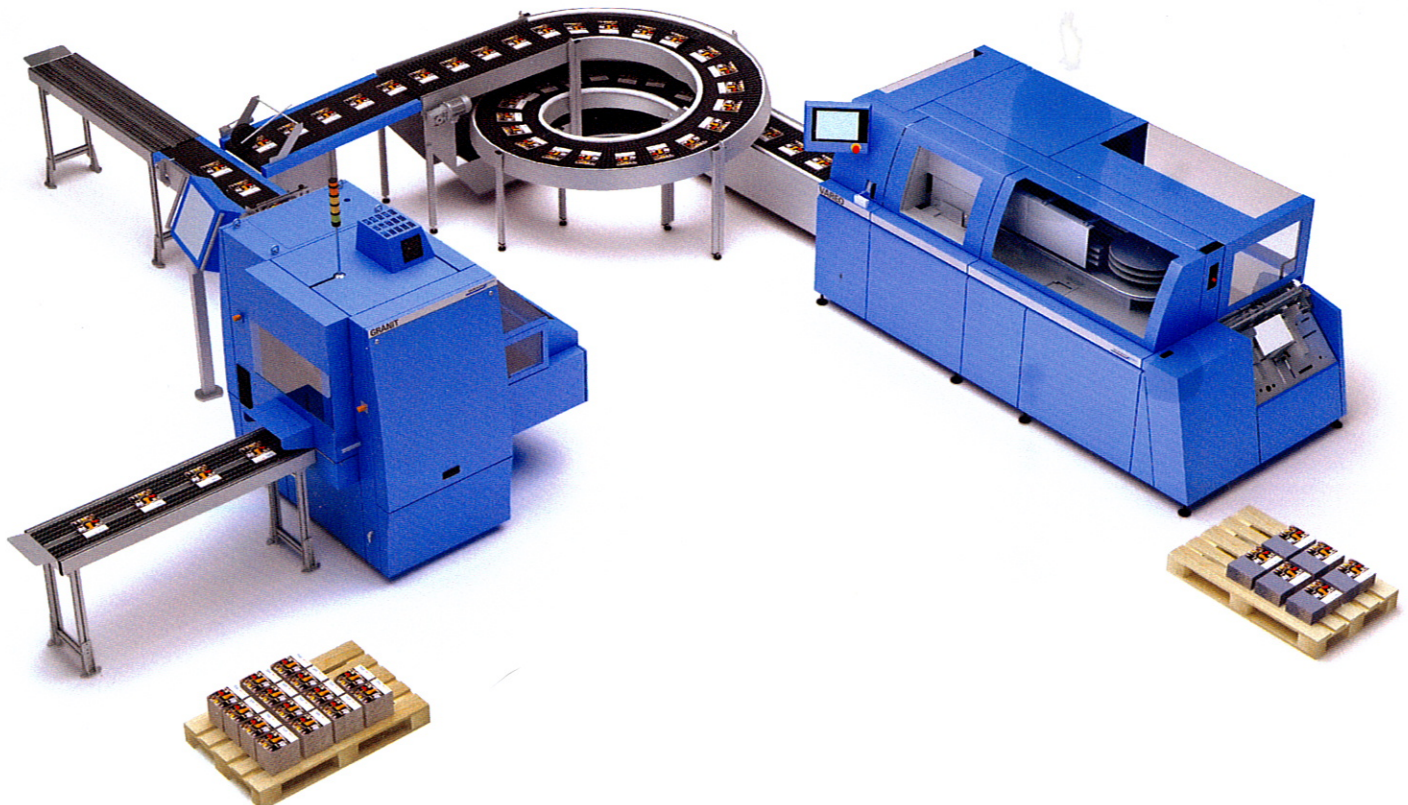
Efficient In-Line Production

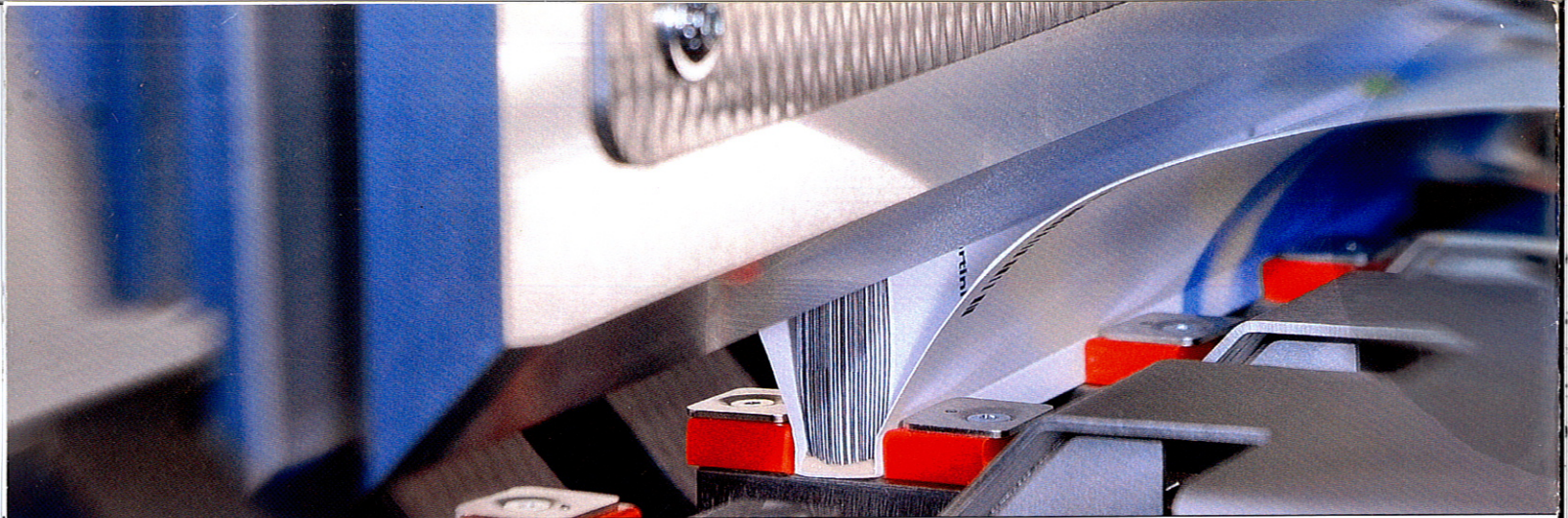
Thanks to its modular design, a customer-specific cooling section and a three-knife trimmer can be added to the Vareo to turn it into an integrated production line. That enables the cost-effective production of perfect bound brochures even in the ultra-short run segment.

Automatic Book Block Feed (Optional)

The automatic feeding of book blocks increases the productivity of the whole perfect binder and eases the work of the operator. The manual feed remains freely accessible and can still be used. The automatic book block feed comes with a book thickness measuring

system as standard and an optional barcode camera to ensure that the content and cover match. The book block feed enables connecting the Vareo directly to digital printing presses. The finished signature stacks or loose-leaf stacks are then transferred directly to the clamps of the perfect binder.





Press Delivery Systems

Efficient and reliable solutions are required for press delivery systems to convey and cut signatures, form and palletize bundles or stacks and create rolls. This is the ideal connection between press and print finishing.

Saddle Stitching Systems

A full range of stitchers, inserting, film wrapping and packing systems in a range of performance categories automates the print finishing process. Modern systems produce products of top-class quality and with high added value.

Softcover Production

Perfect binding lines in all performance categories produce a wide range of spine-glued products, such as brochures, magazines, catalogs and paperbacks, in perfect quality and at the highest speeds.

Hardcover Production

Whether connected inline to production systems or operating as stand-alone systems, the hardcover systems complete all the processing steps to create books from folded signatures with hardcovers and protective jackets.

Newspaper Mailroom Systems

Efficient and flexible mailroom systems transport and process newspapers straight off the press fully automatically, from the printing press via the insertion process and stacking to the loading dock.

Digital Solutions

The more efficient digital printing systems become, the more challenging the finishing process will be. Muller Martini develops innovative digital printing solutions that yield new growth opportunities for the graphic design industry – for stitching as well as softcover and hardcover production.

^{MM}Services

Muller Martini's global service portfolio ensures productivity, quality and added value and offers reliable investment protection for production systems. With ^{MM}Services operating costs and investment costs are optimized.

This leaflet may include components that are not part of the standard equipment and are available as options only. In some cases, protective covers have been removed in photographs, in order to provide a more detailed view of the equipment. Subject to design and equipment changes.

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