Pantera Perfect Binder

Compact Perfect Binder with Enormous Possibilities

MÜLLER MARTINI
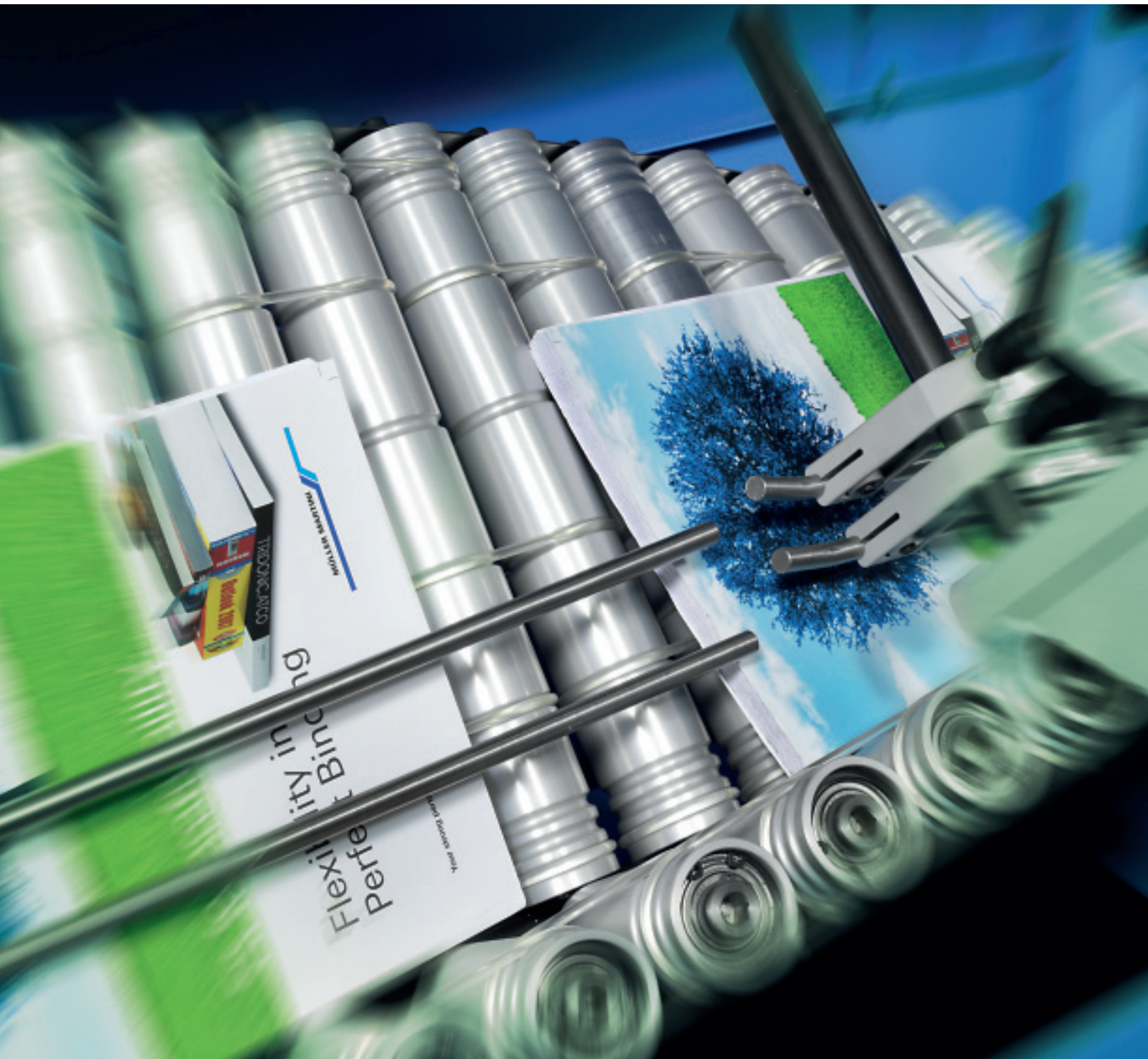
Pantera Perfect Binder
Large Range of Sizes and Flexible Binding Options

Increasingly shorter processing times, decreasing run sizes per job, rising numbers of jobs, customers' high quality expectations of the finished product and the need to switch quickly and flexibly between jobs using a wide range of binding types are the daily reality of many print finishing businesses. The Pantera perfect binder, with its compact design, not only provides a great deal of flexibility if space is tight, but also, in addition to proven hotmelt binding, enables PUR binding in the performance range of up to 4,000 cycles per hour. It also covers a wide size range, allowing it to be used for diverse jobs. The Pantera has a modular design. From the Pantera stand-alone binder with manual feed and manual delivery to an integrated system complete with gathering machine, conveyor system and three-knife trimmer, which can be configured to suit customers' needs. With the use of optional crisscross delivery, the perfect binder and the gathering machine can be operated separately for different jobs.

The Pantera can be operated easily and clearly via a touch screen. It boasts very short setup and changeover times thanks to its Automatic Make-Ready System, which ensures a high degree of automation.

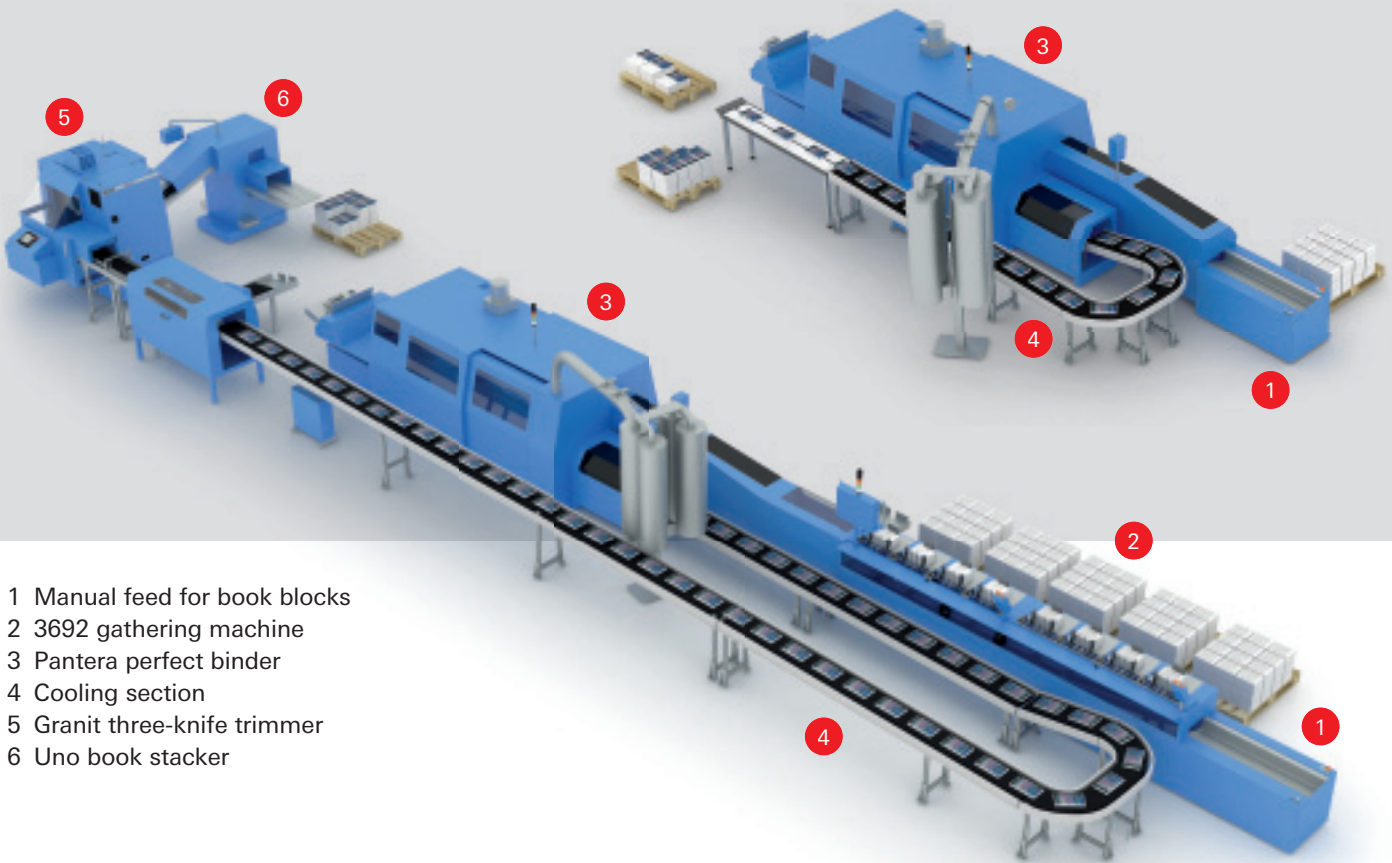**Advantages of the Pantera at a Glance:**
- ▶ Wide range of sizes
- ▶ Diverse gluing and binding methods
- ▶ Short setup and change-over times
- ▶ Easy and clear operation
- ▶ High degree of automation
- ▶ Flexible and expandable

1. Manual feed for book blocks
2. 3692 gathering machine
3. Pantera perfect binder
4. Cooling section
5. Granit three-knife trimmer
6. Uno book stacker

Finishing **4.0** ™

The Future Is Now.

Muller Martini's highly automated machines are state of the art. They come into their own in combination with smart connectivity and a seamless workflow. Finishing 4.0 means innovative solutions for the finishing of digital and offset printed products.

▶ Smart automation
▶ Connectivity of all processes
▶ Maximum variability and flexibility of run lengths, product sizes and content

Commander Control with Setup Wizard

The interactive setup wizard assists the operator in setting up the machine quickly. The settings of all stations are displayed for the given production run. A Book Data Center (BDC) is also optionally available, allowing size data to be measured and sent to the machine automatically.

Amrys Automatic Make-Ready System

Amrys reduces changeover times at the perfect binder as all settings related to book thickness are made automatically via a total of twelve servo motors. The net output of the equipment is further increased by the fact that fine adjustments can be made on the fly via the setup wizard.

The Setup Wizard Assists with the Following Tasks:

▶ Saving and loading of repeat jobs
▶ Display of production data and settings
▶ Monitoring of the glue pot and spinner temperatures.
▶ Automatic gluing length control for both spine and side gluing

3692 Gathering Machine (Optional)

The gathering machine with up to 36 feeder stations is easy to operate. The feeders can be loaded from either side. The gathering machine is equipped with Asac (automatic signature thickness measurement) and, optionally, with Asir (automatic signature image recognition).
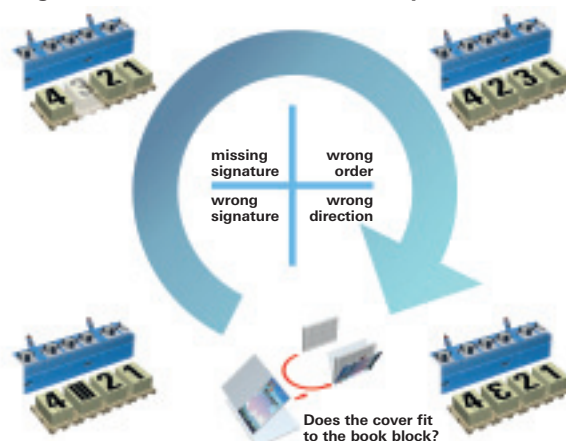
Divert Gate (Optional)

The gate, in combination with a gathering machine, automatically ejects all faulty and incomplete sets of signatures without interrupting production. This significantly increases the productivity of the entire perfect binding line.

Signature Control with the Asir System

missing signature | wrong order
wrong signature | wrong direction

Does the cover fit to the book block?

Finishing **4.0** ©

4

Reliable Transport Throughout the Entire Perfect Binder

Infeed/Book Block Feeder (Optional)
The infeed of the Pantera is equipped with a manual feed, allowing book blocks that have already been gathered or thread sewn to be fed manually. Loading can be performed as an option by using an automatic book block feeder. The subsequent, horizontal infeed in the binder is equipped with a leveling shelf that aligns the signatures parallel.
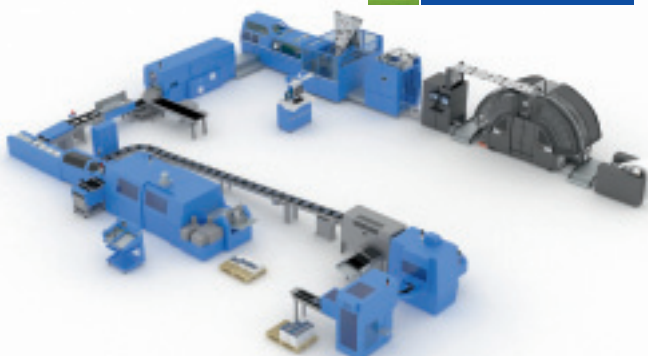
Clamps
The clamp adjusts itself automatically to each book block, ensuring even pressure for every book thickness. As a result, the Pantera is ideally suited to the processing of digitally printed and gathered book blocks.

Milling Station
The book block is reliably processed in the milling station using a chip milling head. The milling station can be quickly lowered for the processing of thread-sewn products.

Spine Preparation (Optional)
Leveling saws, slitter knives and fiber roughers can be used in the spine preparation station depending on the gluing technology (PUR or hotmelt). The paper dust is removed from the book spine using a ring brush, which ensures good adhesion.


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Use in Digital Printing
Thanks to its suitable performance range, high degree of automation and self adjusting clamps, the Pantera also lends itself to the efficient processing of short and ultra-short runs in the digital printing segment. The Pantera, for instance, can be loaded with digitally printed book blocks from the Muller Martini SigmaLine. The Connex data and process management system ensures seamless connectivity.

Diverse Gluing Options
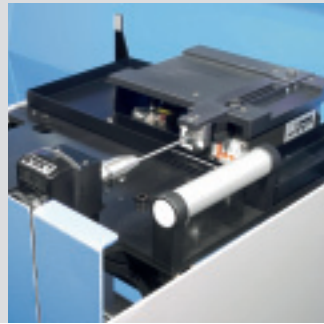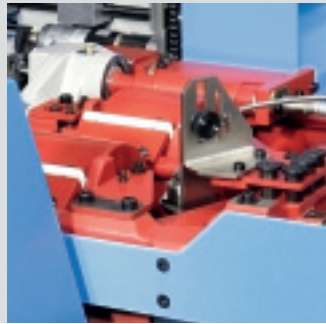
Hotmelt Spine Gluing (Optional)
The mobile spine glue station is equipped with two application rollers and a counter-rotating spinner to ensure even glue application and, as a result, good adhesion of the book. The glue application length and spot gluing can be set via the interactive set-up wizard. A freestanding premelter can be optionally used and, by means of level control in the glue pot, it ensures there is always sufficient glue and prevents production interruption.

PUR Drum Roller Spine Gluing (Optional)
The glue pot is optimized for PUR processing. High binding quality is ensured by monitoring the glue temperature and the glue level. The system is easy to operate and clean. The open glue application system is particularly easy to operate. For cleaning purposes, the glue pot can be removed easily from the trolley. Removable glue trolleys accelerate the glue change process in the event of production changeovers. The relevant melt-on-demand (MOD) PUR premelter comes as standard.

PUR Nozzle Spine Gluing (Optional)
As an alternative to the PUR glue pot, PUR adhesive can also be applied using proven Volumetric PUR Nozzle (VPN) technology. In combination with the premelter, the PUR adhesive is applied sparingly and precisely to satisfy high quality expectations. Thanks to the closed-loop system, the adhesive retains its high-quality properties for a long time.

Hotmelt Side Gluing
The length of the glue application can also be matched exactly to the cover size via the control system. As a result, the perfect binder is not contaminated with glue if the cover happens to be shorter than the content. The glue temperature monitoring and precise control of the length of the glue application ensure high-quality, neat side gluing. A premelter is optionally available here too for consistent production conditions.

Crash Station (Optional)
The crash station can be set up via the setup wizard. If there is no book in the clamp, feeding of the liner automatically stops.

Drum Cover Feeder
The drum cover feeder has a large feeder capacity. Thanks to individually adjustable suckers, all types of covers can be processed (including covers with flaps). The covers are reliably separated and fed by means of lateral blow air and separating aids. Low level stack monitoring and a refill warning are available. The cover feeder can optionally be equipped with Asir for automatic cover recognition.

Nipping Station
The precisely synchronized nipping station ensures a perfectly pressed, square book spine. The covers are positioned on the book spine extremely precisely. The nipping plates can be exchanged quickly and easily thanks to the quick-locking device.

Lay-Down Device and Conveyor System (Optional)
The products are gently placed using the lay-down device. The system can be configured for rightward or leftward book lay-down and for all glue types. The cooling section can be individually adapted to customer-specific needs.

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▶ **Digital solutions**

Outstanding Solutions Built on Strong Values

As a pioneer of the graphic arts industry, Muller Martini is a market leader whose innovative print finishing systems for the industrial

production of offset and digitally printed magazines, brochures, newspapers, softcover books

and hardcover books enjoy global recognition.

1

Long-term cost-effectiveness
Muller Martini is a market leader that retains its strong position thanks to its technological expertise, process know-how and consulting skills.

2

Ability to deliver solutions
Muller Martini provides products and services that are based on mature technology, have been thoroughly tested and that provide its customers with the greatest possible uptime.

3

Commitment
Muller Martini has outstanding staff who are committed to customer service, quality and timely deliveries. They stand out for their expertise, flexibility and sense of responsibility.

4

Customer focus
Muller Martini understands its customers' processes, takes increasing market requirements and customer needs seriously and efficiently develops practical solutions.

5

Continuity
Muller Martini has been present in the graphic arts market for over 65 years and converts its know-how into systems with high value added.

6

Quality
Muller Martini provides products and services that guarantee a high level of performance throughout the economic life-time of each piece of equipment.

Sales and Service

Muller Martini AG
Untere Brühlstrasse 13
4800 Zofingen, Switzerland
Telephone +41 (0)62 745 45 75
Fax +41 (0)62 751 55 50
info@mullermartini.com
www.mullermartini.com

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