

mitabind

single-clamp perfect binder



digibook**⁺**
technology

mitabind

single-clamp perfect binder

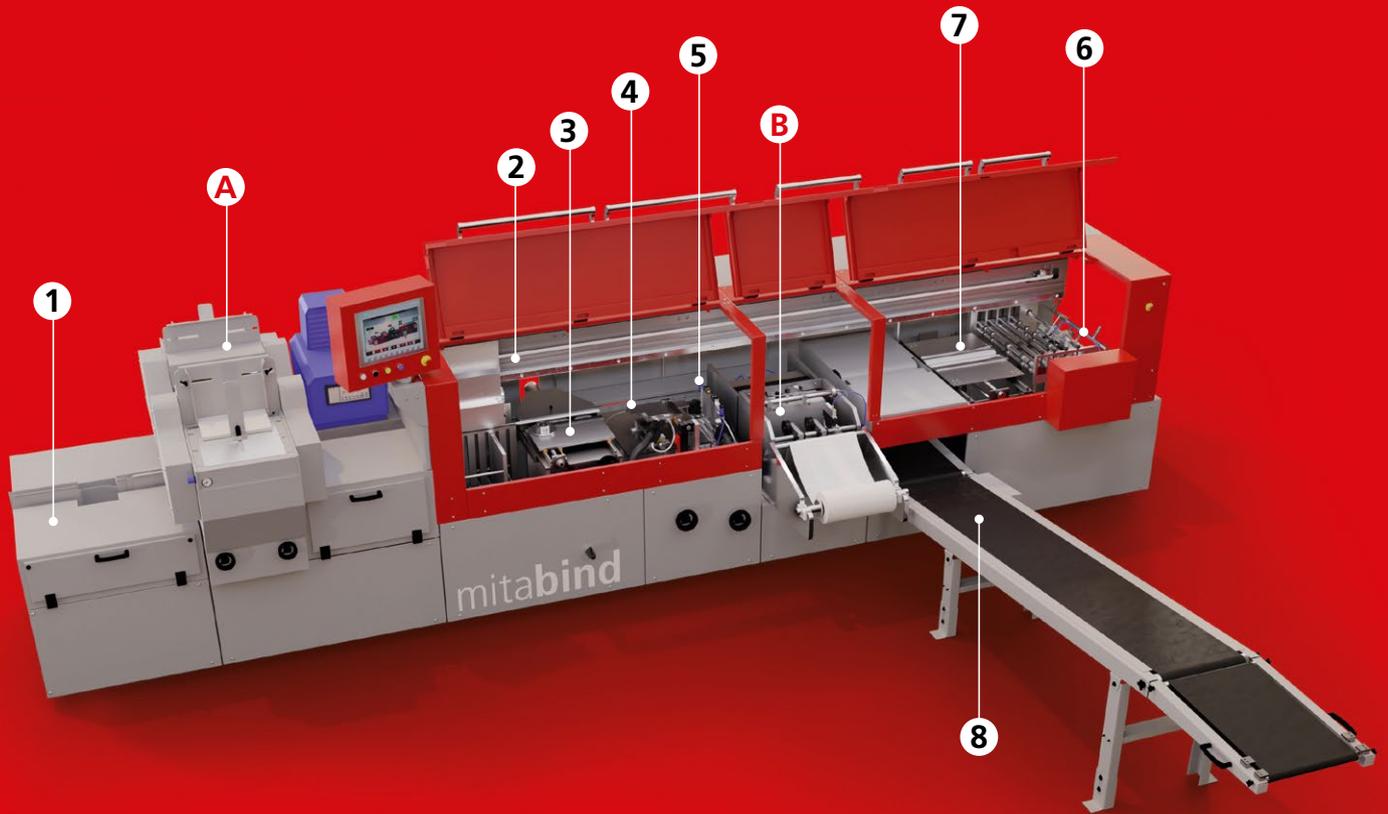
The mitabind is a fully automatic single-clamp perfect binder designed especially for the production of high-quality hardcover book blocks and softcover books in single to short-runs. Thanks to the integration of an end-sheet feeder and backlining station, yet with a high degree of automation with simple format setup times, ease of operation and comparably low complexity and space requirements, it achieves a unique position especially in the hardcover book-on-demand sector in the lower speed range (up to 300 blocks/h).

Special features

- ▶ The complete integration of the end-sheet feeder and the backlining station into the initial machine concept avoids unnecessary "handling operations" with a comparatively compact design.
- ▶ Simple operation by only one person. Inline connections possible for both upstream and downstream processes allow for workflow optimization.
- ▶ Motorized quick format adjustment via touch screen monitor and/or thickness measurement and/or barcode control. Easy retrieval of saved formats that enables automatic machine setup.
- ▶ Barcode use both for matching block/cover and for controlling the binder and subsequent downstream equipment.
- ▶ Simple machine flow due to linear design.
- ▶ Hardcover book blocks and softcover books can be produced in the same way.
- ▶ Low space requirement of approx. 5.8 m x 1.8 m (19 ft x 6 ft).

Options

- ▶ **endsheet feeder** with hotmelt side gluing
- ▶ **backlining station** with unwinding and lateral cutting
- ▶ **barcode recognition**: verification of the affiliation of cover to block
- ▶ **barcode printer** for marking the neutral book blocks
- ▶ **infeed options** with thickness measurements (manual, "star-wheel", "slide") depending on products to be processed
- ▶ **press of fold** in the channel
- ▶ **spine gluing system** "roller or nozzle" and "PUR or EVA"
- ▶ **side gluing system** "disc or nozzle"
- ▶ **glue steam extraction** and filtration



1 manual feeding

2 linear clamp transport

3 milling and notching

4 back glueing

5 side glueing

6 cover feeding

7 pressing

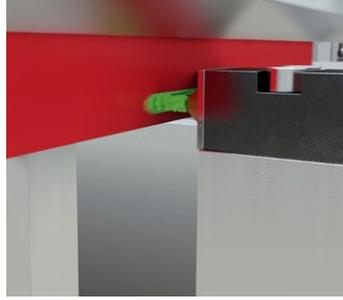
8 exit

A front- and endsheet feeder

B back lining station



roller glue unit



side glueing



back lining station



pressing



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Operation

The mita**bind** is particularly suitable for finishing digitally printed books. It can be connected to upstream units such as unwinders, format cutters, folding units and book sewing machines. The mita**bind** is set up via data input or “recipe retrieval” on the touch screen or via barcode control.

The blocks can be fed either manually or automatically. With manual loading, the book blocks are placed in the transport channel. The width of the transport channel is entered via the touch screen or measured externally. Automatic loading options enables automatic thickness detection of each individual book block and motorized adjustment of the width of the transport channel and the following units to the block thickness.

The binder can be equipped with an endsheet feeder (option). This provides the book block with a glue line on both sides. The endsheets are separated, transported to the block, positioned and pressed on. The book block is then transported to the clamp and inserted into it from below. After closing the clamp, the book block is transported horizontally over the milling and notching station, the spine gluing unit (2 application rollers + counter-rotating heated spinner roller or optional nozzle gluing unit) and the side gluing unit (optional disc or nozzle).

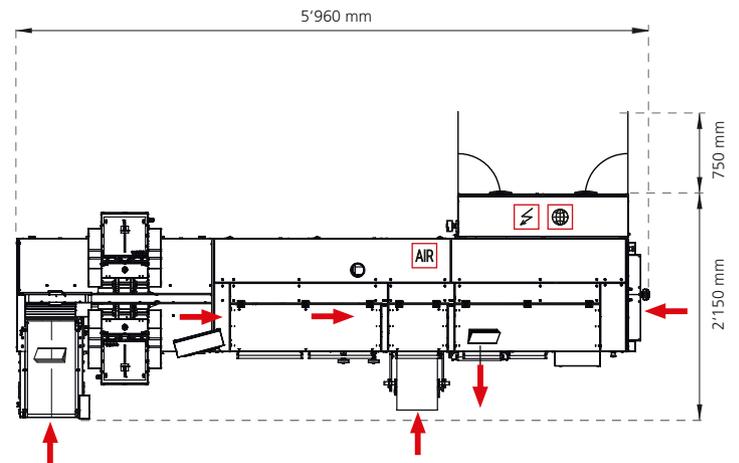
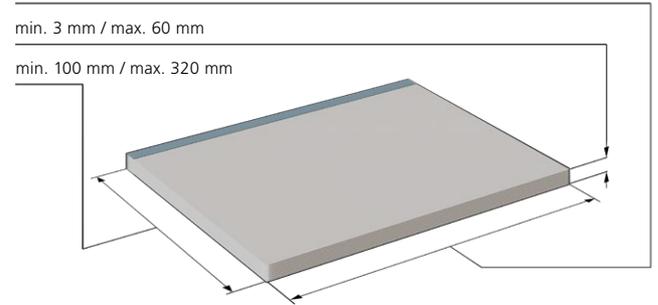
In the subsequent backlining station (option), the backlining material can be added. Alternatively, a softcover can be fed. This is separated in the cover feeder, then fourfold creased and transported to the pressing station. After the backlining material or the cover is added, the back and sides are pressed. After this, the clamp moves to the exit. The blocks leave the machine lying, spine first.

formats book block / softcover

min. 150 mm / max. 380 mm

min. 3 mm / max. 60 mm

min. 100 mm / max. 320 mm



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Technical specifications

Production speed	up to 6 books / min ^{**}) softcover production up to 5 blocks / min ^{**}) block production w. backlining	
Clamps number	1	
Block formats (width x height x thickness) ^{*)}	min. 100 mm x 150 mm x 3 mm max. 320 mm x 380 mm x 60 mm	min. 3 7/8" x 5 7/8" x 1/8" max. 12 9/16" x 14 7/8" x 2 7/8"
Paper grammage	min. 60 g/m ² – max. 170 g/m ²	
Cover formats (width x height) ^{*)}	min. 205 mm x 150 mm max. 700 mm x 380 mm	min. 8 1/16" x 5 7/8" max. 27 1/2" x 14 7/8"
Cover grammage	min. 100 g/m ² – max. 300 g/m ²	
Cover feeder pile height ^{*)}	max. 50 mm	max. 1 15/16"
Creasing	double or quadruple	
Spine preparation (milling depth) ^{*)}	min. 0 mm – max. 4 mm	min. 0" – max. 5/32"
Electrics	EVA Hotmelt, 12 kW, 400 V, 3 PNE, 50 Hz	
Air consumption	1'200 NI/min. (6 bar)	
Floor space (standard closed)	5.80 m x 1.81 m (19 ft x 6 ft)	
Weight	approx. 1'800 kg (4'000 lbs.) standard approx. 3'000 kg (6'700 lbs.) with endpaper and backlining station	

^{*)} In case of deviations between inch and mm, mm is considered binding.

^{***)} The effective performance depends on mode, format, milling depth and pressing time.

Technical specifications subject to change without notice

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