

mitacase
automatic casemaker



photobook
technology

mitacase

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The mitacase is an automatic casemaker for the cost-effective production of hardcover book cases in small quantities.

mitacase automatically produces high-quality hard cover book cases for a wide range of book products. The machine closes the gap between semi-automatic and high-speed machines used for long runs.

Special features

- ▶ Automatic feeding of side boards, spine and cover material. The operator loads the components in top loading bottom feeding hoppers, which allow for continuous feeding during operation
- ▶ Integrated glue application for animal glue. To avoid unnecessary down time the gluing system can be switched on by means of a timer. A viscometer (optional) permanently regulates the viscosity of the adhesive by means of an automatically controlled water supply
- ▶ Mechanical folding stations, which not only fold very precisely but also produce very accurate corners
- ▶ Easy operation by one operator only and motorized size change via central touch screen. Frequently produced formats can be recalled from a data storage. Repeat orders are produced with absolute precision after size change
- ▶ Extremely small floor space of only 3 m x 2.7 m required



Automatic board feeder



Operation

Board components and cover material are loaded into their respective automatic feed stations. An electronically controlled suction arm covering 4 work stations picks up the automatically fed side boards and center strip and places the three components in precise register onto the automatically fed and glue coated cover material.

Without releasing the board adhered to the cover material, the suction head transfers the laminate into the mechanical heavy-duty head and tail folding station, where the corners are simultaneously, tucked in tightly. To complete the case, the suction head places the almost finished case into the mechanical side folding station. The transfer arm then releases the finished case ready to pass the final pressing station before being placed onto the delivery table.

The suction arm goes back to pick up the board components for the next case and starts the next production cycle.

The final result consists of precise, tightly folded book cases. The machine, of very sturdy construction, is operated by one person and can produce up to 420 cases per hour.

The motorized size change is activated by the data stored in the touch screen operating panel.

Options

- ▶ **Automatic viscosity control:**
The viscosity of the glue is permanently checked by a viscometer which automatically controls the water supply
- ▶ **Double sheet detection:**
A sensor checks the thickness of the cover material. In case of a double sheet, the machine stops and the misfed sheet can be removed without damage
- ▶ **One-piece cases:**
With a modified cover feeder, it is possible to remove side guides from the spine board feeder and the inner side guides of the side boards. This allows to load cardboards covering the full size of the book cover.
- ▶ **Flexible spine:**
This option consists of a roll feed attachment with longitudinal and cross cutting. This unit is installed above the board feeder.

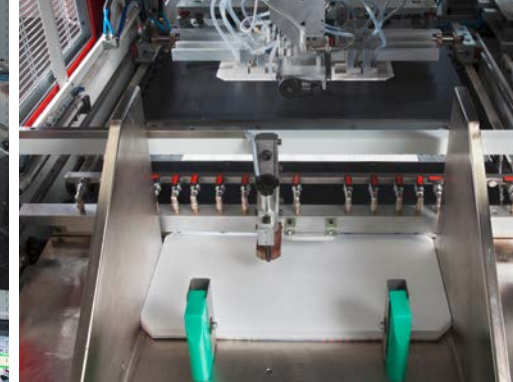
mitacase

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mitacase automatically produces unique, high-quality custom hard cases for a wide range of book products. The machine closes the gap between semi-automatic aggregates and high sophisticated complex machines for long runs.



Automatic board feeder



Automatic feeder for cover material



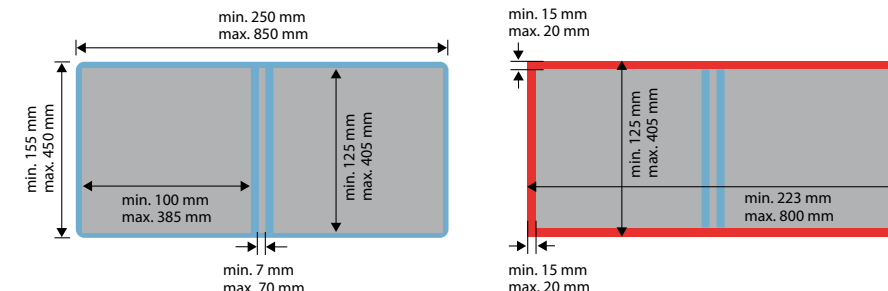
Cover transport over gluing roller to vacuum table



Operation by means of touch screen

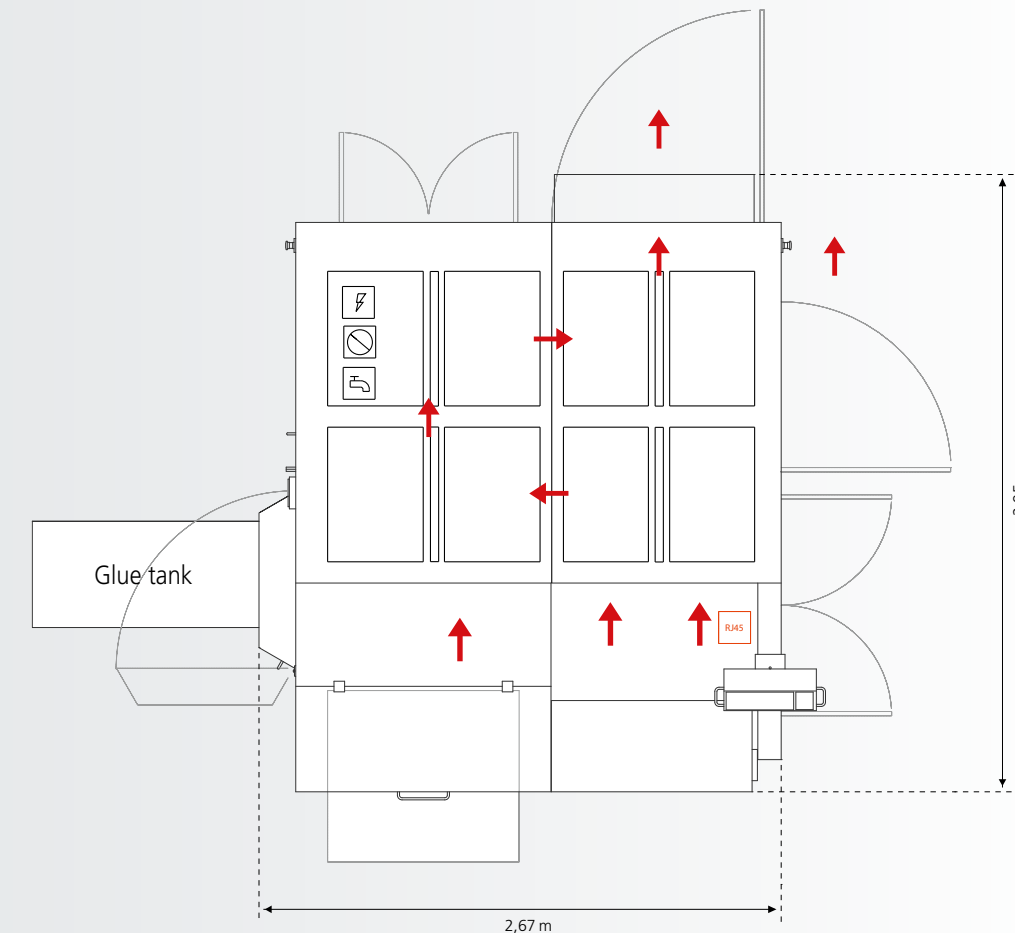
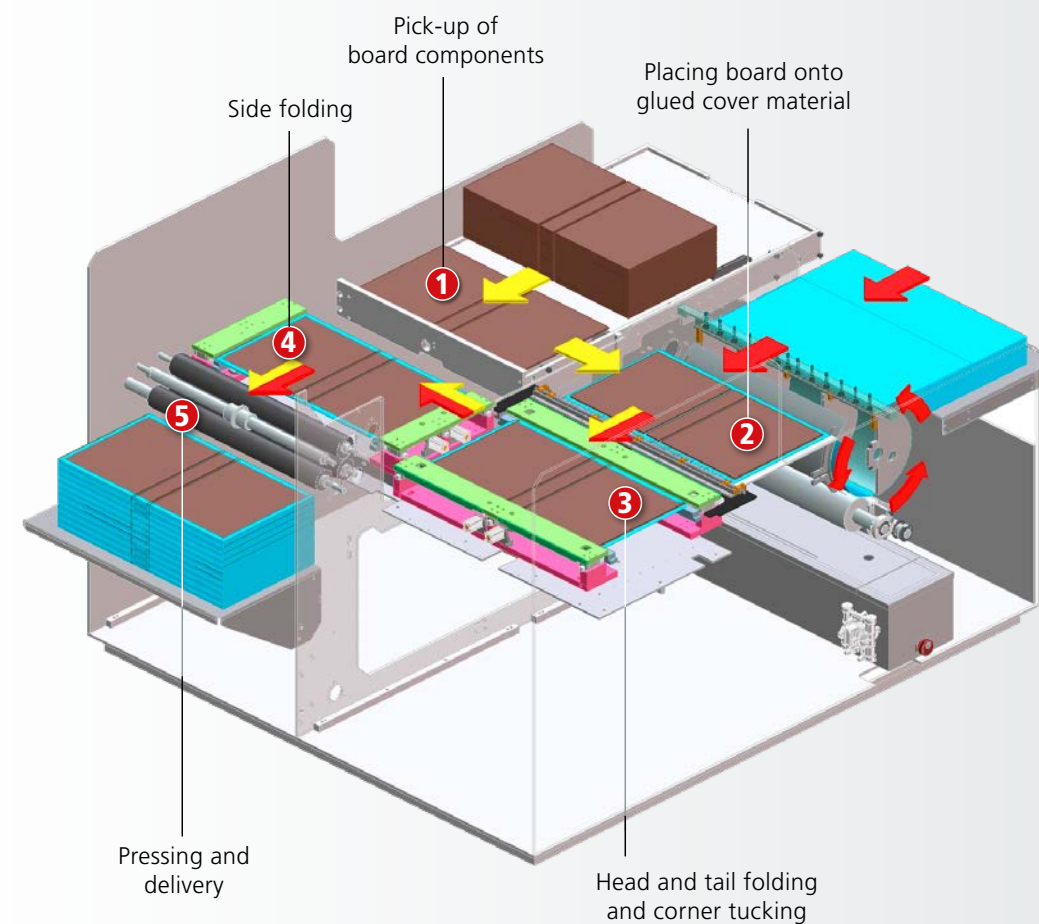


Finished cases with accurately folded corners



Special features

- ▶ Automatic feeding of quadrants, spine and cover material. The operator fills the different magazines by stacks. As the machine detracts the quadrants from below, it is possible to continue stocking even during ongoing operation
- ▶ Integrated glue application system (animal hot glue). The heated glue pot can be switched on via a timer even before the shift starts, so that unnecessary downtime is avoided. A viscometer (optional) allows the glue to be permanently adjusted to the optimum viscosity by means of a regulated water supply
- ▶ Mechanical folding stations, which not only fold very precisely over pressing plates, but also produce very accurate corners
- ▶ Easy operation by only one operator and motorized format quick adjustment via central touch screen. Storage of formats to enable reproductions with absolute precision after size change
- ▶ Extremely small footprint of only approx. 3 m x 2.7 m



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Technical specifications

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Production speed	up to 7 cycles/minute	
Finished case size (width x height)	min. 223 mm x 125 mm	max. 800 mm x 405 mm
Cover material (width x height x thickness)	min. 250 mm x 155 mm	max. 850 mm x 450 mm x 1 mm ¹⁾
Board dimensions (width x height x thickness)	min. 100 mm x 125 mm x 1 mm	max. 385 mm x 405 mm x 5 mm ²⁾
Spine (width x height x thickness)	min. 7 mm x 125 mm x 1 mm	max. 70 mm x 405 mm x 5 mm
Turn-in (up/down and side)	min. 15 mm ³⁾	max. 20 mm
Size change	1 – 5 minutes	
Electrics	12 kW (400 V, 3 PNE, 50 Hz)	
Air consumption	800 NI/min. (6 bar)	
Water consumption	1,5 Liter/h	
Floor space	2,95 m x 2,67 m (H 1,80 m)	
Weight	ca. 2.900 kg	

1) depending on the material flexibility – then note the turn-in

2) max. width of the boards leads to limitations in the spine and fold due to the max. size of the finished case

3) smaller is possible, depending on material flexibility

Technical specifications subject to change without notice

Photobook Technology PBT sagl

Via Angelo Maspoli 21

CH - 6850 Mendrisio • Switzerland

T +41 91 6467930 • F +41 91 9932250

info@photobook-technology.com

www.photobook-technology.com