

mitablock PRO

automatic hot melt section gluing machine



digibook⁺
technology

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The mitablock PRO is a fully automatic hot melt section gluing machine for the efficient manufacturing of lay flat book blocks. mitablock PRO is a modular production system which, due to its design, is easy for the operator to handle.

This attractive binding technic can be used for photo books, children's and promotional books. With this new technology it is possible to produce book blocks, regardless of the paper type.

Special Features

- ▶ Hot melt glue application with extrusion nozzles which apply a very thin, precise glue film
- ▶ Precise alignment of the folded sheets in order to form a perfectly square book block. This is insured by a reregistering device repositioning each sheet prior to assembling
- ▶ Computer-controlled hot melt application with the possibility to turn the nozzles off and on. Only the required area of the sheets is glued so that unnecessary glue consumption can be avoided
- ▶ Simple operation and largely motorized size change adjustment via touch screen. Storage of formats for repeat orders possible
- ▶ Only one operator needed. The pile feeder can accept up to 80 cm of printed sheets and same operator can load the feeder and take off the finished book blocks.



Operation

One-sided printed sheets are feed singly into the creasing and folding section. Consequently, the folded sheets are pressed again along the fold area in order to achieve a tight fold.

An additional feeder gives the possibility to automatically insert card boards between the section or in front or back of book block. The next step is application of hot melt by means of extruder nozzles which apply a very thin and even film of hot melt. The glued sheets are then re-registered against the fold before an oscillating vacuum table assembles the section to a perfectly registered square book block. After an initial pressing process, the finished book block exits the machine. As an option, an additional pressing station at the delivery is available.

Options

- ▶ **Extending glue application to 438 mm (standard 338 mm):**
If required, four more glue nozzles can be integrated to extend glue application. This system cannot be retrofitted on existing equipment.
- ▶ **Cardboard feeder for cardboards as well as end-sheets:**
The additional feeder behind the folding allows both, the feeding of intermediate boards (also several), as well as end-sheets or end-boards.
- ▶ **Additional block pressing unit:**
The inline pressing unit at the machine exit reduces the buildup of the book block in the spine area. Exchangeable pressing bars enable to press different shapes.
- ▶ **Web-feeding with crosscutting:**
Instead of the pile feeder there can be used a web-feeder. In this case cross cutting for the web is incorporated.

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Hot melt application by extruder nozzles



Sheet transfer after glue application



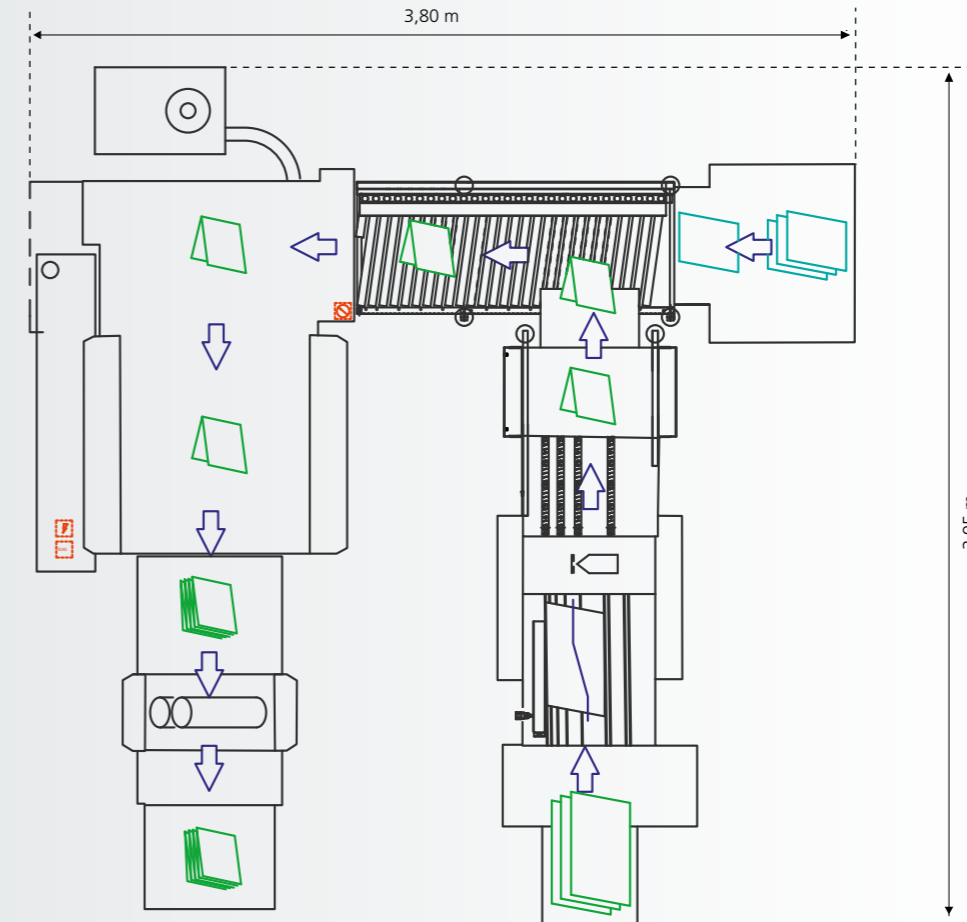
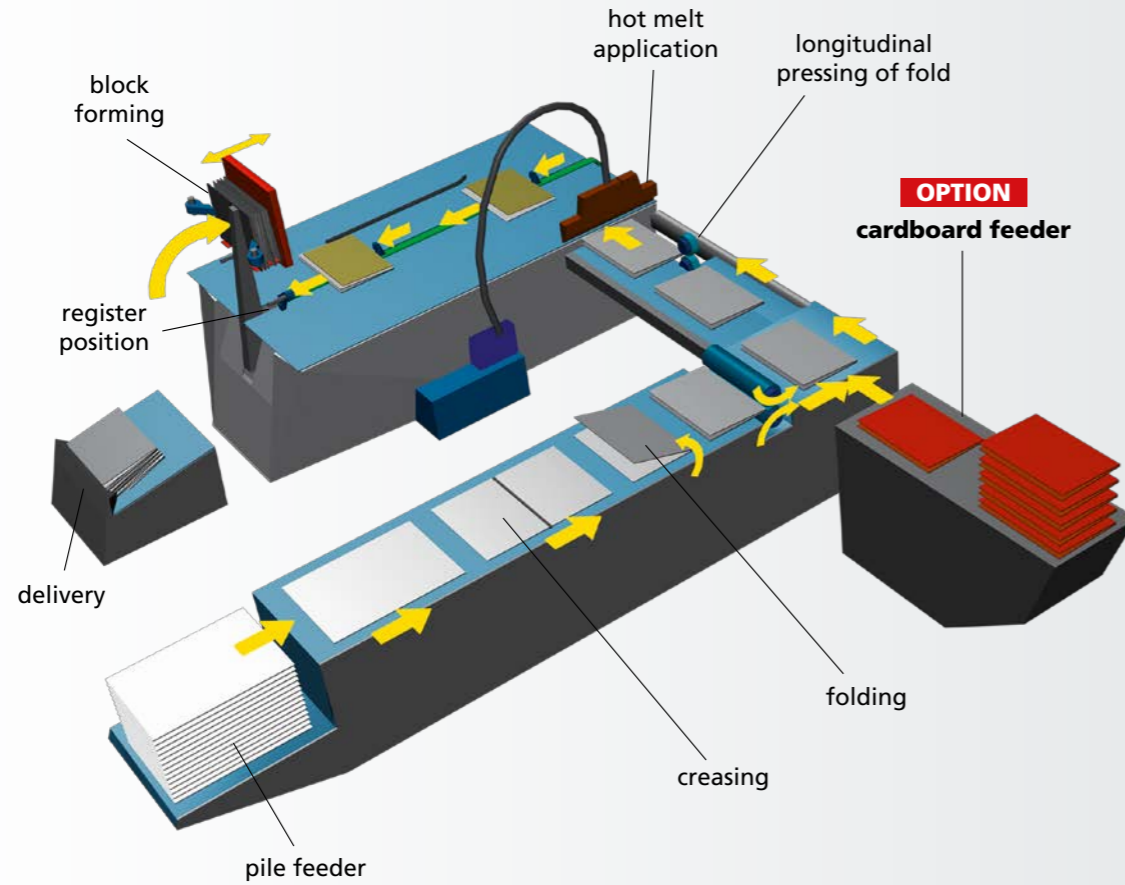
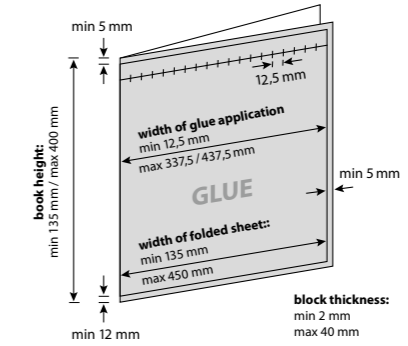
Block assembly station



Feeder for cardboard or end sheets (optional)



Finished glued book blocks



Technical specifications

Production speed	up to 1'700 sections/h-depending on size (max. mechanical speed)	
<u>Folded sheet size</u>		
Back to front	min. 135 mm (5 ½ inch)	max. 450 mm (17 ¾ inch)
Head to tail	min. 135 mm (5 ½ inch)	max. 400 mm (15 ¾ inch)
Important limitation!	Sheet width and height refer to the measurements of the machine guide – The glued area diverges from these dimensions.	
<u>Glue coverage</u>		
Back to front	in half inches increments up to 338 mm (or 438 mm) – 13 ½ inch (or 17 ½ inch)	
Height	variable up to 12 mm (½ inch) distance from head and tail	
Block thickness	min. 2 mm (5/64 inch)	max. 40 mm (1 ½ inch)
Electrics	14 kW (400 V, 3 PNE, 50 Hz)	
Air consumption	110 NI / min. (6 bar)	
Machine dimensions	ca. 3,80 m x 3,95 m	
Weight	ca. 3'500 kg	

Technical specifications subject to change without notice

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