

mita**book**

horizontal casing-in without a wing



photobook
technology

mitabook

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mitabook Hardcover Casing-In Line

A fully-automatic, hardcover, casing-in machine, specially designed to economically produce hardcover photo books and children's books in small quantities. The machine fills the gap between semi-automatic binding equipment and sophisticated hardcover production lines for high volume production.

Special Features

- ▶ The book block does not have to be split in the center prior to being placed onto a wing. By not using a wing, scratch marks on the delicately printed inside image are avoided
- ▶ Operation requires one person only to feed book blocks and cases and to take off the completed books with the joints formed
- ▶ Extremely small floor space required: 2 x 2.6 m
- ▶ Simple to operate and rapid fully-automatic motorized size change via touch screen
- ▶ Use of state-of-the-art software and adhesive technology
- ▶ Gluing station does not need to be cleaned, even after interrupted use



Operation

Book cases and book blocks are placed into their respective automatic feed hoppers. The book block and the appropriate case are fed simultaneously into the casing-in section. Prior to entering the operational part of the machine, bar code sensors check if the two components match. The book block remains in a holding station, placed above the case transport race way and lies horizontally, unopened and being perfectly aligned, waiting for the case.

A pair of register fingers pushes the case, with the spine perpendicular to its direction of travel under the novel MELT JET gluing station, which will perfectly coat the area where both end sheets are glued to the case with hot melt. The joint area is also covered with hot melt.

The case pusher transports the perfectly-aligned case towards the book block, waiting at an upper-level position. The same pusher, which transports both components, provides the exact amount of space for the alignment of the book block with its case and places the book block onto the rear of the case. In this way the block-to-case alignment is absolutely perfect. Consequently, the upper case portion is folded over and aligned with the pusher of the bottom case portion.

After an initial pressing, the book is cased-in and changes its direction of travel by 90° through the joint-forming and rotary-pressing station. The hotmelt, previously applied into the joint area of the case makes it possible to form a perfectly shaped joint with-out heat, with the added advantage of reinforcement of the book.

The finished book is delivered back to the operator to be taken off or collected in a counter stacker.

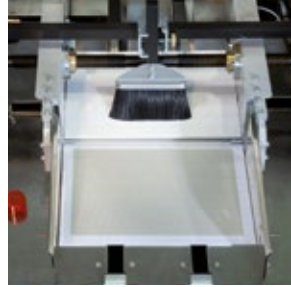
Throughout operation the components are checked electronically for precise and proper positioning in order to avoid spoilage.



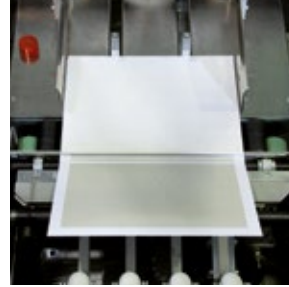
Barcode sensors check if components match



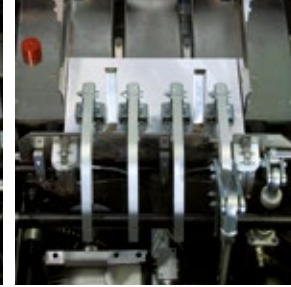
MELT JET Hotmelt glue coverage



Alignment of book block and case in perfect register



Folding of cover over book block



Closing and initial pressing of the cased-in book, prior to joint-forming

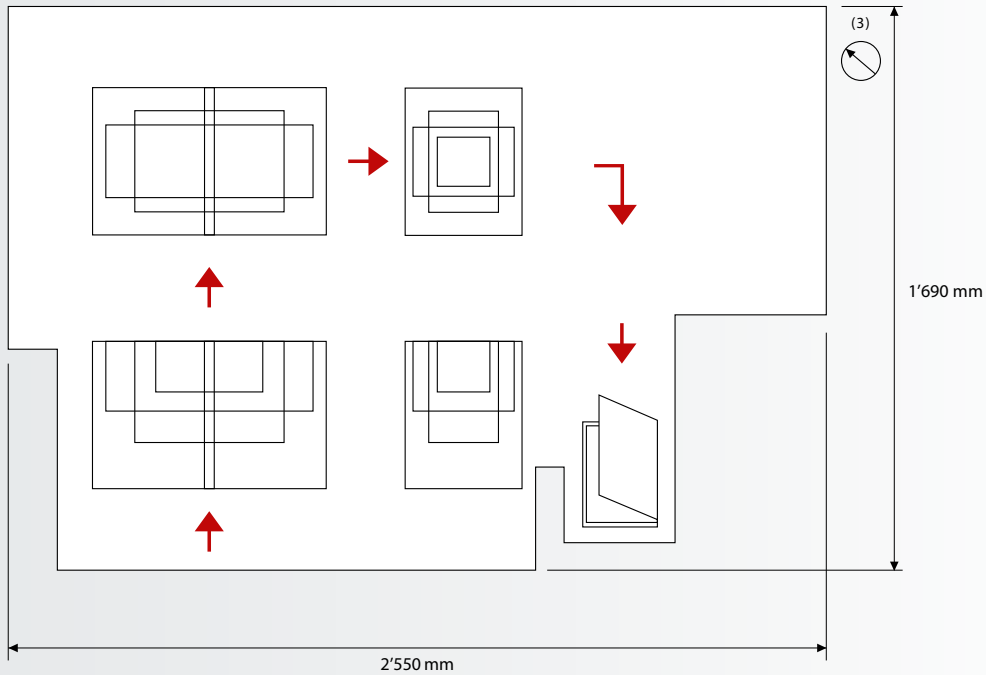
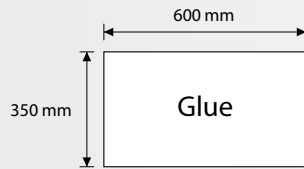
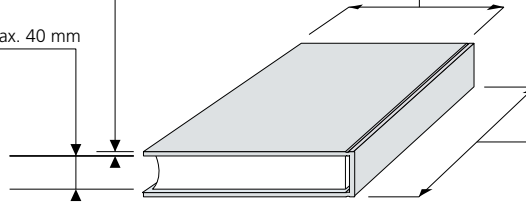


min. 130 mm / max. 400 mm

min. 150 mm / max. 360 mm

min. 1.5 mm / max. 3.5 mm

min. 2 mm / max. 40 mm



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Technical specifications

Back to front:	min. 150 mm – max. 360 mm	(min. 6 inch – max. 14 inch)
Head to tail:	min. 130 mm – max. 400 mm	(min. 5 1/8 inch – max. 15 3/4 inch)
Book block thickness:	min. 2 mm – max. 40 mm	(min. 5/64 inch – max. 1 1/2 inch)
Open case (length):	min. 325 mm – max. 750 mm	(min. 12 3/4 inch – max. 29 1/2 inch)
Open case (height):	min. 130 mm – max. 400 mm	(min. 5 1/8 inch – max. 15 3/4 inch)
Case thickness:	min. 1.5 mm – max. 3.5 mm	(min. 1/16 inch – max. 1/8 inch)
Production speed:	up to max. 7 books / minute – depending on size	
Electrics:	400 V, 3 PNE, 50 Hz	
Power requirements:	7 kW	
Air consumption:	110 NI/min. à 6 bar	
Size change:	approx. 1–2 minutes	
Floor space:	2 x 2.6 m	
Weight:	approx. 1'000 kg	

Technical specifications subject to change without notice

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