

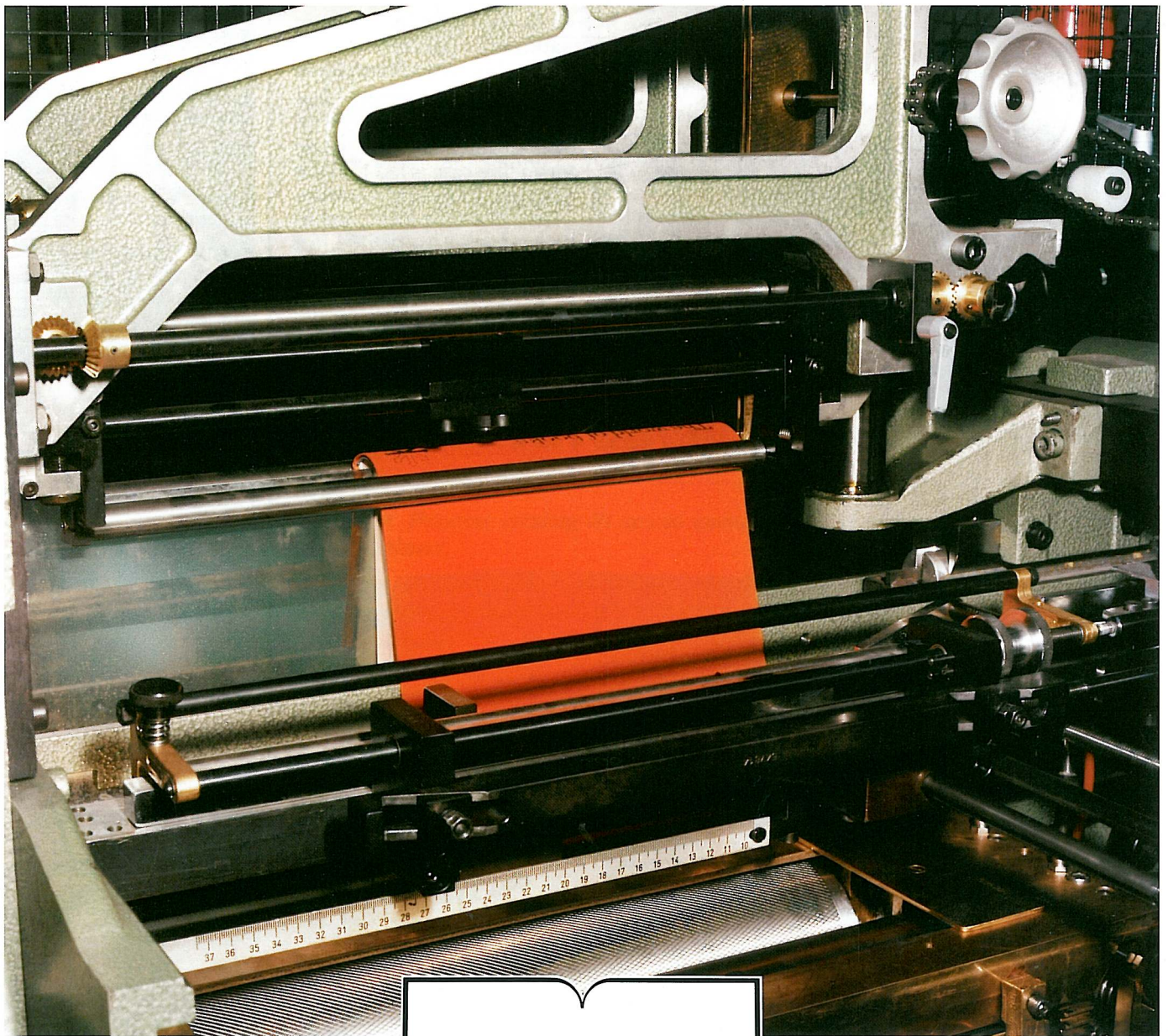


Automatic Casing-in Machine EMP

Fully automatic,

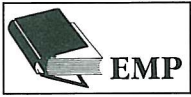
casing-in in perfect register

up to 50 cycles/min



KOLBUS

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Automatic Casing-in Machine

The sturdy machine for casing-in of flat, rounded or backed book-blocks into normal, padded or PVC cases. Can be used as individual machine or as an element for a book production line.



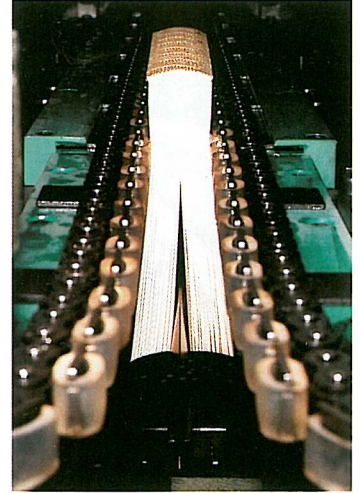
Infeed

EMP method of operation:

- Timed manual infeed or via conveyor belts of pre-linked machines.
- Profile rollers transport the book-blocks into the machine.
- Bar pushers take over the block and guide it in between the transporting chains which grip it near the spine, thus guiding it hanging downward across the block splitter.
- For casing-in the book-block is being divided and taken over by the transport

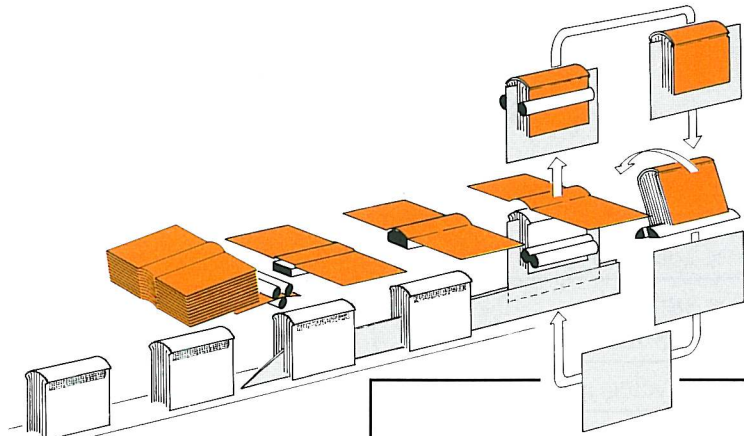
wings of the paternoster system. In the following, joint and endpaper on both sides of the book-block are glued.

- Coming from the case hopper which is fitted with pre-heating for the spine area, the case is fed into the heated forming station. Here, the case spine gets its roundness. A device for case bending prior to the forming station is standard. Book cases with a flat spine are "pre-formed" by an adjustable straight forming iron.

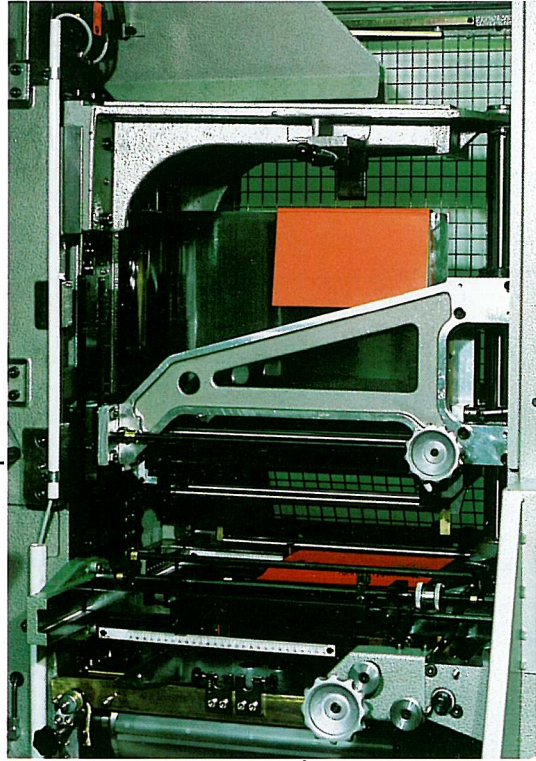


Block splitting

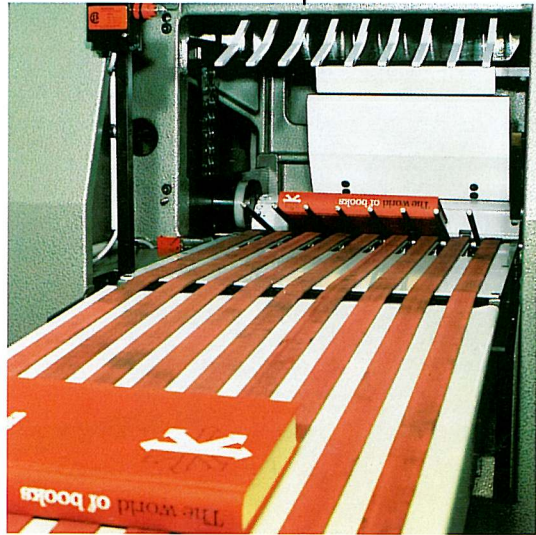




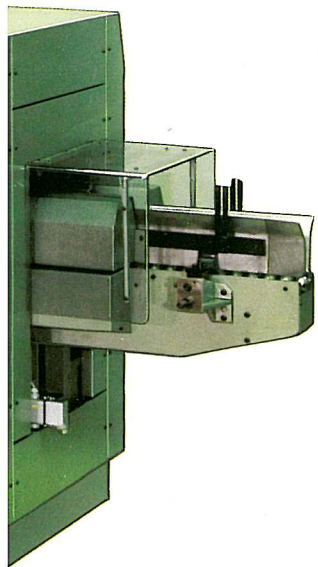
- The casing-in wing guides the glued book-block into the precisely aligned case, and then moves them together into the pressing station.
- The paternoster then moves the cased-in book into the delivery. A delivery rake places the book carefully onto a conveyor belt to the infeed of the next machine.



Casing-in

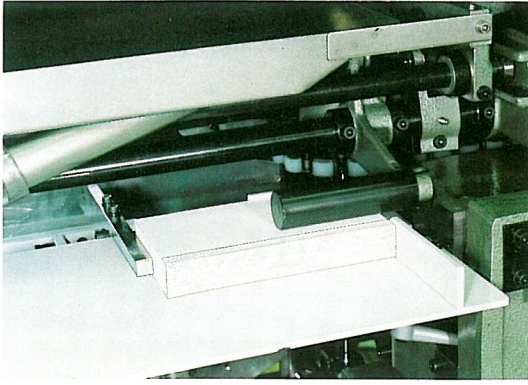


Delivery

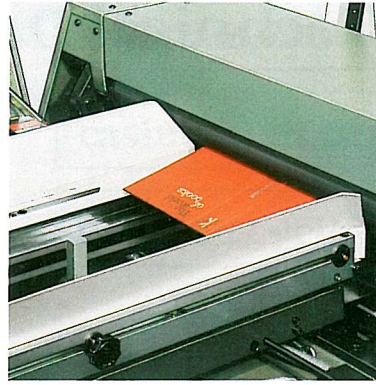


Technical Details

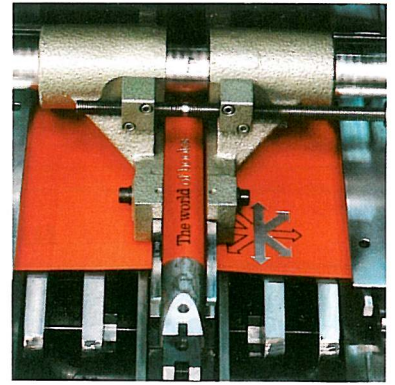
- All adjustments are carried out from the operator's side
- In case of machine stops or missing book-blocks the gluing-stations are automatically tilted down.
- During a stoppage of the machine, a separate drive for the glue application rollers prevents crusting up of the gluing system.
- The patented glue application roller system enables separate adjustment of the glue coating between joint and gaze area and end-sheet, even on books with thick backing joint.
- Additional glue scrapers for thinner applications in the upper and lower turn-in areas of the cases prevent non-desired outflow of glue from the end-sheet edges.
- An additional washing pump for the cleaning of the gluing stations reduces the cleaning time.
- In the case station, an arrester holds back the heated forming iron to prevent the case from being scorched.
- Steady guidance of the book rub-down for pressing the case onto the glued block.
- Overload protectors for transport and drive elements.
- Control and monitoring by electronic elements. Visual stoppage indicators on the control panel automatically signal the respective trouble spot.
- Simple maintenance due to centralized lubrication.



Measuring table



Case bending station



Case forming station

Additional Equipment

- For special formats of book-blocks with max. 300 x 355 x 30 mm, min. 70 x 100 x 4 mm
- Motorized setting of the block infeed for the required block width.
- Motorized setting of the block thickness for the glue stations.
- Special hoppers and suction feeders for flexible and plastic cases.
- Special device for book-blocks below 4 mm down to a minimum of 2 mm e.g. children's books.

Advantages

- *Precise casing-in saves subsequent corrections.*
- *Trouble-free splitting, as the book-block hangs freely between the chains in the splitting area.*
- *Patented glue application roller system enables separate adjustment of glue coating between joint and gauze area and end-sheet, even on books with thick backing joint.*

Technical Data

Automatic Casing-in Machine

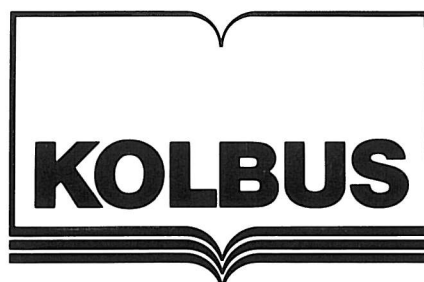
EMP

Book-block formats	max.	270 x 370 x 80 mm	10 ⁵ / ₈ x 14 ⁹ / ₁₆ x 3 ⁵ / ₃₂ "
	min.	100 x 100 x 4 mm	3 ¹⁵ / ₁₆ x 3 ¹⁵ / ₁₆ x ⁵ / ₃₂ "
Format of opened case	max.	630 x 380 mm	24 ⁵¹ / ₆₄ x 14 ⁶¹ / ₆₄ "
	min.	210 x 105 mm	8 ¹⁷ / ₆₄ x 4 ⁹ / ₆₄ "
Output infinitely variable		20 – 50 cycles/min	
Unit dimensions			
Length		5120 mm	16' 9 ⁹ / ₁₆ "
Width (with delivery belt)		2570 mm	8' 5 ¹³ / ₆₄ "
Height		2250 mm	7' 5 "
Weight		5300 kg	
Floor loading		16700 N/m ²	
Total rated current, motors heater (ref. to 380 V)		33,2 A 4,2 A	

Design changes reserved
EMP 594

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