

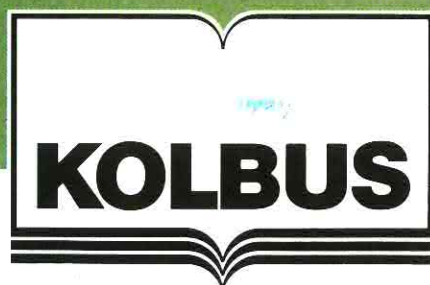


High capacity up to 10,000 cycles/h

Top quality perfect binding

Copilot technology

Systembinder 2000

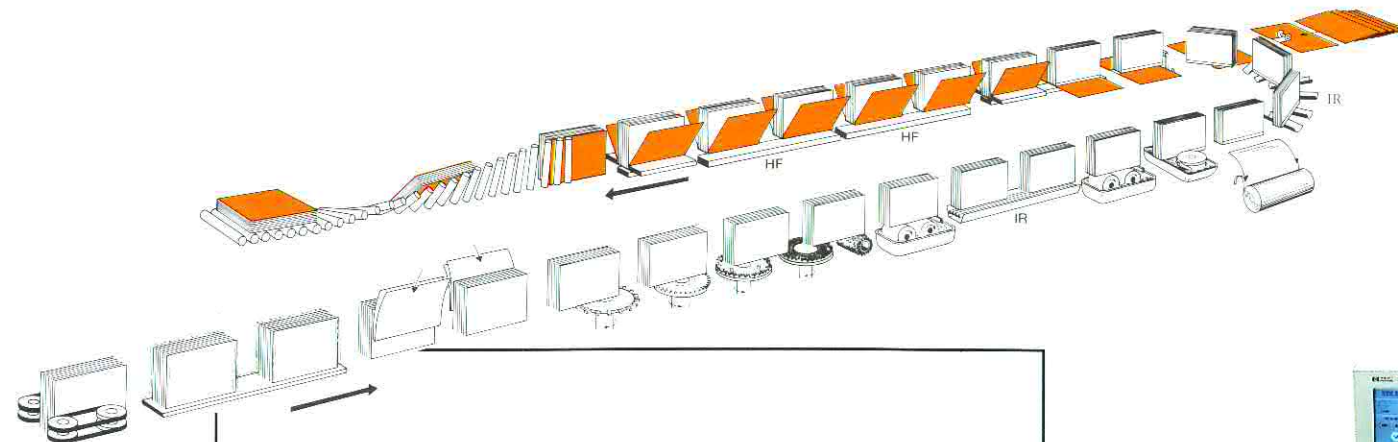


– Bound for the Future



Systembinder 2000

Perfect binding of the future with a new design, the latest technology and a new operating system.



This new binder based on the proven Systembinder range opens new ways in perfect binding for you. The Systembinder 2000 introduces perfected process technology as well as motorized adjustment of format and block hang-out via Copilot. This and the operating concept with its decentrally placed monitors on the machine represent the ultimate in shorter make-ready times, easier handling and operator guidance in the perfect binding sector.

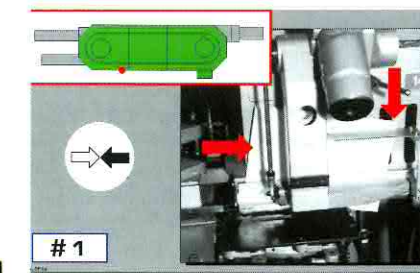
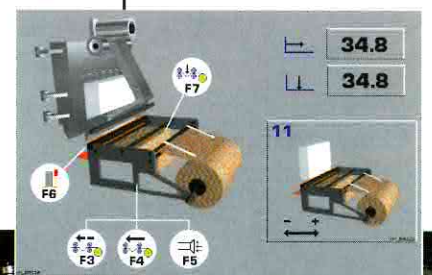
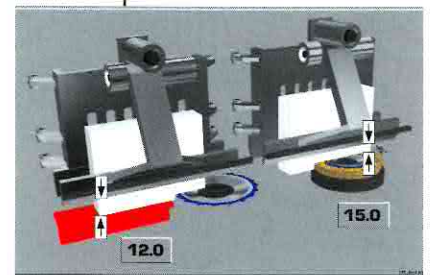
For instance, the Systembinder 2000 equipped as a 25 clamp hotmelt machine really is the kind of machine you've been looking for to produce your brochures and

magazines in the most efficient way. With its capacity of 10,000 cycles/h and coupled with one of the Kolbus gathering machines like the 811/ 813 or 816 A type you'll get a perfect binding line which is in a class of its own with its top performance, economy and top quality products.



- Concept of control with decentrally placed key-boards and screens on the machine.
- Decentralized input/operation possible via keys on at least 3 operation points for all stations.
- Format and block hang-out adjustments are set motor-driven by the Copilot. The screen(s) show(s) suggestions for exchange parts and other necessary preparation for the production.
- The choice of production is possible by calling up stored product data or by entering the new production data manually position by position.

- Corrections can be done at all stations via +/- keys.
- Menu oriented operation on the screen and colour graphic displays ensure high operating reliability.
- Safety standard according to CE directives and specifications.

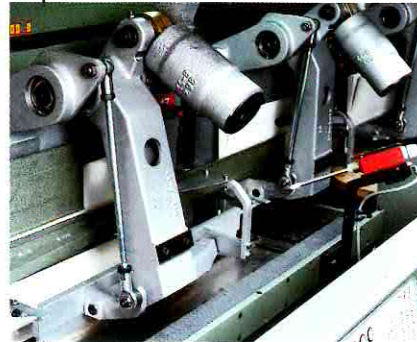


Technical details

Basic machine with clamps

Sturdy, nearly vibration free frame (modular design with 18, 25 or 32 clamps). Laterally opening clamps offer the important advantage of horizontal infeed at uniform height. The disadvantage of the inclined infeed – tilting of the gathered, loose sheets – is avoided. Contact pressure of the clamp increases with the increase in the block thickness and block thickness adjustment is automatic. Therefore setting of the clamps becomes obsolete. Balanced adaption of pressure with uneven head and foot thicknesses.

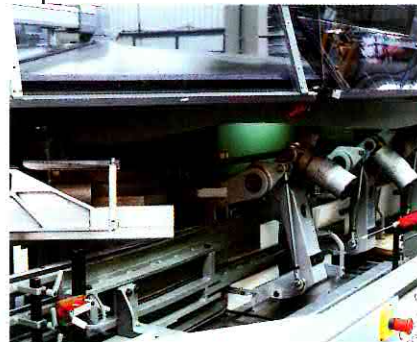
Continuous clamp guide, even in the curves. For control purposes, the clamp can be easily opened by hand at any processing step through a simple push of the lever. The Systembinder is driven by a steplessly adjustable motor. Equipped as standard with a separately placed electrical cabinet and electric surveillance of functions with display of malfunctions on screens. It can be coupled with the Kolbus gathering machines ZU 811/813/816 A (see separate brochures ZU).



Horizontal infeed/end sheet feeder

Horizontal block infeed. Jogging with subsequent levelling area. Height adjustable to the desired milling depth. Two end sheet feeder stations can be attached. The horizontal infeed and the patented end sheet device permit a precise and functionally correct attachment of the end sheets. They are precisely adjusted with-

out previous glue application using individual height adjustable guide rails. The end sheets are coated with glue at joint area, by spine and side gluing units, and subsequently joined with the lining strip in order to achieve an optimum joint function between end sheets and book block.



Spine processing station

In the main milling area an additional pressing is effected by two pairs of independent pressing discs on the clamp and on the block. Additional spine processing stations can be attached, depending on the equipment and size of the

binder, for such operations as levelling, notching, sanding and brushing. The binder can be equipped with a separate dust extraction unit. The spine processing stations can be lowered for back gluing of sewn and burst bound products.

Hard metal back plates for top quality spine preparation.



Gluing stations

Height adjustable spine gluing stations designed for hotmelt, PUR or cold glue with 2 synchronously running application rollers. The hotmelt and PUR gluing units are equipped with a heated spinner running counter-clockwise and with side bulge guides, the cold glue unit with scrapers or with a brush running counter-clockwise (e.g. for back gluing of sewn blocks or perforated sections). All systems include a scraper control system for glue control. Correction of the glue application length is possible during production. Easy exchange of the movable spine gluing unit with integrated undercarriage. Exchangeable side gluing units for hotmelt or

cold glue with 10 or 13 mm wide application discs, optionally available with scraper control. All hotmelt and PUR gluing stations feature a safe temperature control and a fume extraction hood. Preheating of the hotmelt also possible outside the machine. For the cold glue side gluing unit glue application discs with 8° inclination incl. scrapers and pressing rails with 8° inclination, top, for the first and, if existing, for the 2nd pressing station are available for the processing of thread sewn book blocks having a larger spine. Corrections of the glue application with the side gluing unit are possible during running production.



Premelting unit LH

All types of hotmelts can be melted in this mobile unit. It distinguishes itself by a gentle pre-melting process, safe temperature guidance in the individual heating zones (melting funnel, progressive heating zone, heated hose). The maximum melting capacity is 40-50 l/h during con-

tinuous pumping this being dependent upon the viscosity, the processing temperature and type of hotmelt. The pump impulse is automatically triggered by a level control in the glue container of the adhesive binder.

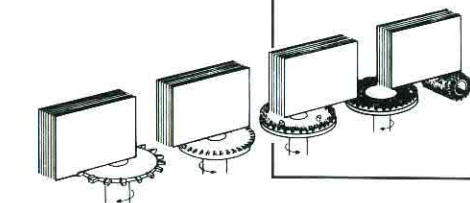
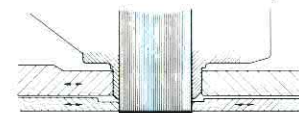
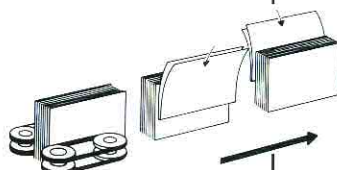
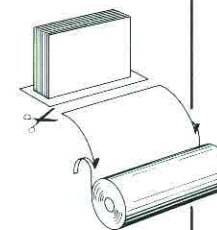
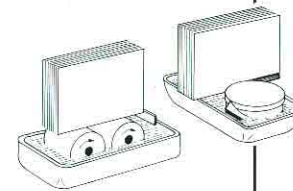
Note: Premelter for careful pre-melting of PUR-glue available.



Lining Station

With automatic pre-pull so that actual feeding is made independent of the material roll weight, i.e. tension free and precise. The slitting and cross cutting device can handle all materials generally used in the industry e.g. like

gauze or crepe paper etc. A height adjustable support in the turn holds the lining overlap in the horizontal position in order to ensure a perfect transfer of the lined block into the pressing station.



Intermediate heating

Infrared radiant heaters are fitted in the curve. It prolongs if necessary the open time of the hotmelt.

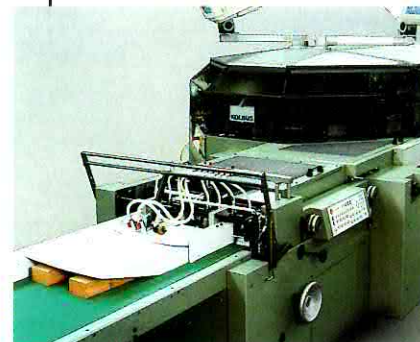
Thereby increasing cover adherence.



Cover feeder/scoring unit

Cover feeder fully equipped with transport belt for stream prestacking, separation unit, cover alignment and scoring station. The scoring unit can be equipped with scoring tools for two, four or six scores. All scorers and

the entire scoring unit can be adjusted by a central adjustment and corrected during production. The processing of covers with folded-in flaps by a special equipment is possible.



Cover alignment and pressing station

The precise cover alignment unit operates with a proven system. An alignment unit achieves a precisely synchronous running of block and cover which can be corrected even during production. The pressing station presses lining strip or cover to the block spine twice, as well as laterally to

the block. Bottom table and side pressing unit are coupled and can be adjusted synchronously for further reduction of make-ready time. A second pressing station for renewed pressing of lining strip or cover to the block is necessary following an IIF dryer.



Drying

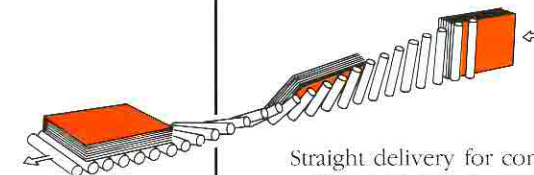
Infrared heaters act as an intermediate dryer for the two-shot method with cold glue in binders with 25 clamps or more. Special high energy density double heaters dry the first glue film prior to the next glue film being applied. High frequency dryer (HF) with appropriate cooling conveyors for inline processing of cold glue

products. The IIF system can be extended by individual units of 10 kW output capacity each. This unit ensures excellent efficiency, low energy consumption and an optimum adaptation to the drying process. A special electronic control avoids flashovers. (The HF-unit is supplied only with a 2nd pressing station).

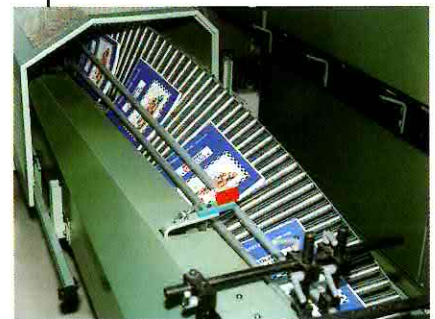


Delivery unit

without accelerating rollers – and are carefully transported lying flat.



Straight delivery for connection with a transport system as a cooling and drying unit or via lay-down devices. The products standing on their spine are laid down with the spine to the left by these lay-down devices – with or



Technical Data

Number of clamps		18		25		32	
Length (with standard infeed and stream cover feeder)	10,450 mm 34' 3.27/64"		12,585 mm 41' 3.15/32"		14,720 mm 48' 3.55/64"		
Block size	max.	305 x 510 x 20 mm 12 1/64 x 20 5/8 x 25/32"	290 x 510 x 65 mm 11 27/64 x 20 5/8 x 2 9/16"	100 x 125 x 3 mm 3 15/64 x 4 59/64 x 1/8"	290 x 510 x 80 mm 11 27/64 x 20 5/8 x 1/8"		
	With special equipment when used as a gluing machine						
Mechanical speed	up to 10,000 cycles/h						
	Net production dependent on material, format, machine equipment etc.						
Air pressure consumption (for central lubrication)	0.55 Nm³/h						
Working pressure	6 bar						
Floor load	max. ca. 9.5 kN/m²						
Weight/Total rated current motors/heaters	according to equipment						
Electrical equipment	230/400 V, 3 phase, 50 cycles						

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Advantages:

- Continuous transport from the gathering machine to the systembinder – with driven rollers in the transfer.
- Horizontal product infeed into laterally opening clamp – no tilting point.
- Smooth closing movement for safe block clamping.
- Increasing contact pressure of the clamp acting on the block with increasing block thickness.
- The clamps can be easily opened by hand for inspection of the product.
- Individual spine processing incl. levelling milling tool for all paper types.
- Precise cover alignment.
- Advanced bigb frequency dryer – better control, with immediate, constant and gentle drying performance.
- Double form spine pressing.
- Motorized format and hang-out adjustments via Copilot for further reduction of make-ready time.
- Decentralized input and operating via keyboards on at least 3 operating points for all stations.
- Menu oriented operation and colour graphic screens for bigb operating reliability.
- Correction via +/- keys at all operating points even while running production.
- The main miller is equipped with two pairs of individually adjustable pressing rollers for clamp and block joint for perfect clamping of the block without creasing of light-weight papers.
- Spine gluing unit with integrated under-carriage available for every type of glue. Correction of the glue application length is possible during production.
- Correction of the glue application length with the side gluing unit also possible during production.
- Bottom table and side pressing unit are coupled for synchronous adjustment for a further reduction of make-ready time of the pressing station.

