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DigiBook 450

A new dimension to PUR Binding.
Four times stronger than hot melt.

PUR is the strongest, most flexible binding adhesive available and offers several additional advantages over other binding methods. When inks, coatings or digital print toners are present in the spine area these can compromise the strength of typical hotmelt perfect binding. PUR is resistant to this and will form a super-strong bond with all weights and finishes of paper stocks. In addition PUR works well with synthetic and recycled-content stock.

The DigiBook 450 is ideally suited to litho and digital printers who require medium to long runs of PUR perfect bound books to a professional standard. This innovative machine is equipped with a patented closed gluing system where the spine and side gluing is applied by a slot applicator for the utmost binding quality and accuracy.

Key product features:

- 450 books per hour
- Touch screen operation complete with automatic format change.
- Pneumatic opening and closing of clamp
- Binding length (spine) from 100mm up to 450mm
- Spine thickness from 1 to 50 mm
- Spine preparation by sophisticated milling device
- Automatic cleaning and sealing of the glue head
- Retractable milling
- Patented hermetically sealed PUR application system for spine and side gluing with automatic glue cut-off
- Automatic cover feeder
- Automatic delivery and stacking of finished books

The DigiBook 450 comes as standard with an automatic cover feeder to give increased production of up to 450 books per hour. The cover feeder can also be equipped with an optional scoring attachment which will eliminate the need to pre-crease covers.

The machine is easy to use, even by non-specialised personnel, and operated via a touch screen panel with icon graphics that allow the programming of all precision operations in just a few seconds. There are a thousand alphanumeric memories available, which enable repeat jobs to be saved for later recall, thus providing totally automatic set up.

An additional feature of the DigiBook 450 is the new and innovative glue application system which is covered by no less than seven international patents. The application is direct and hermetically sealed, without odour or toxic fume emissions, and does not require extraction fans. It is possible to set different temperatures for the glue melting tank and the applicator giving greater flexibility and glue life.



Another feature of this applicator is it can be cleaned and sealed automatically from the touch screen allowing for minimum glue wastage.

The PUR glue is applied on the book spine and on the sides by independent glue slots, each of which can be adjusted to give the best possible spine and side glue results. The quantity is determined by the height of the applicator and the pressure applied, thus allowing any kind of book to be bound with maximum ease.

In addition to PUR binding, the 450 can be used for hotmelt applications with the optional hot melt fuser unit.

The nipping press is a pneumatic system with adjustable lateral pressing force. Pressing time is also adjustable from the panel with a range from 0 to 30 seconds. The press height varies from 0 to 1.5 mm for optimal squaring of the spine and quality of glue application.

In addition to the automatic cover feeder, the DigiBook 450 is also equipped with an automatic book delivery and stacking section to maintain output speeds and reduce handling of the bound books.

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technical specifications

Mechanical Speeds (books/hour)	450
Number of clamps	1
Touch screen	Yes
Book length, max/min	450mm/100mm
Height of book, max/min	320mm/120mm
Milling width	3mm
Book/spine thickness	1 - 50mm
Cover dimension max	700mm x 450mm
Cover dimension min	242mm x 120mm
Maximum cover weight	500 gsm
Dimensions	L 2870mm x W 1670mm x H 1660mm
PUR glue tank capacity	Up to 3kg
Machine weight	1150kg (gross) - 850kgs (net)
Power requirement	16amp, 3 phase, + E + N, 400v 50/60hz

Options (must be specified at the time of order)

Additional hot melt glue tank

Automatic thickness measurement with direct input to the binder PLC

Gauze station for book block production

Cover scoring attachment

Ultrasonic double detection for cover feeder

Barcode Reader

Note: the production speed varies according to material size

Compressed air required: minimum 7 bar/maximum 9 bar

*Disclaimer

As part of our continued product improvement plan, specifications and information published here are subject to change without notice.

All specifications are dependent on application, type of stock, temperature, RH and print engine used.

Specifications quoted were measured on uncoated and unprinted stock.

E & OE.