



green
GLUING

SPINECOAT AND SIDEBEAD

Perfectly bound books with
Melt-on-Demand technology

PRECISE, EFFICIENT AND HIGHEST QUALITY

The flexible and cost-efficient bookbinding solution with Melt-on-Demand (MOD) technology for highest quality.

Challenges

New technologies, digitalization and new customer demands like Book-on-Demand with variable book dimensions challenge the industry. Customers are looking for flexible, safe and cost efficient solutions, while maintaining their quality. Using less adhesive, more safety in operation, less production interruptions, quick filling and easy conversion to a new order are the expectations of today.

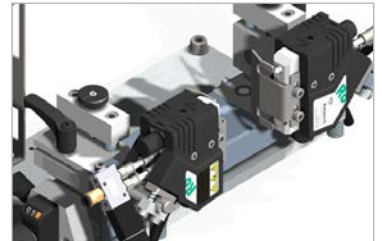
Thanks to our strong and long-standing partnership to the market leader Müller Martini, Robatech has acquired comprehensive and proven expertise to be prepared for current and future demands.

Our Solution

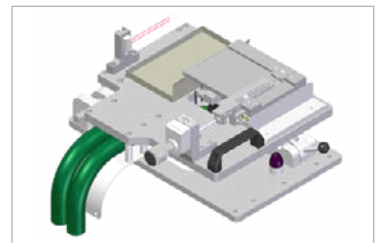
SpineCoat and SideBead are two powerful gluing systems for a complete bookbinding solution suitable for new machines as well as retrofits. Choose the right solution from small, medium to high performance for up to 16'000 books per hour. The spine gluing solution has been based on PUR adhesive and ensures clean gluing from the first to the last page and thus prevents these from tearing out. The side bead is done by a fine bead application of EVA hot melt adhesive on both sides of the book spine. The bead length can be set easily for any book length. The flexible system solutions guarantee a precise and consistent application from the first book to the last.

Your benefits

- Your benefits
- A Precise application and high performance for top quality – perfectly bound books
- Flexible and economic solution even applicable for Book-on-Demand
- Up to 50% adhesive savings (retrofit spine gluing from EVA to PUR adhesive)
- Optimized energy consumption
- Melt-on-Demand (MOD) technology – less waste, less charring, consistent viscosity
- Increased productivity due to short start up, adhesive filling without production interruption, quick format changing and less maintenance
- Closed system – safe tank filling and easy to clean



SideBead – Application Heads



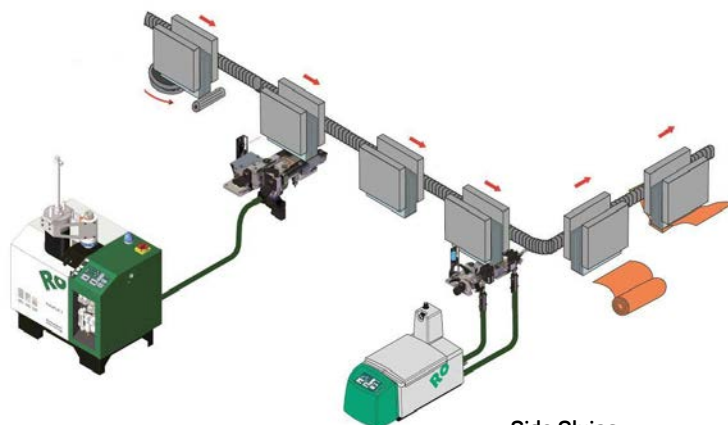
SpineCoat 80RB

BOOKBINDING SOLUTIONS FOR PERFECT BINDER SOFT COVER

SMALL VOLUMES (200 TO 2'000 BOOKS / H)

Application

- Very small editions
- Softcover and book block production
- Digital and offset printing
- Unbound book blocks fed in manually



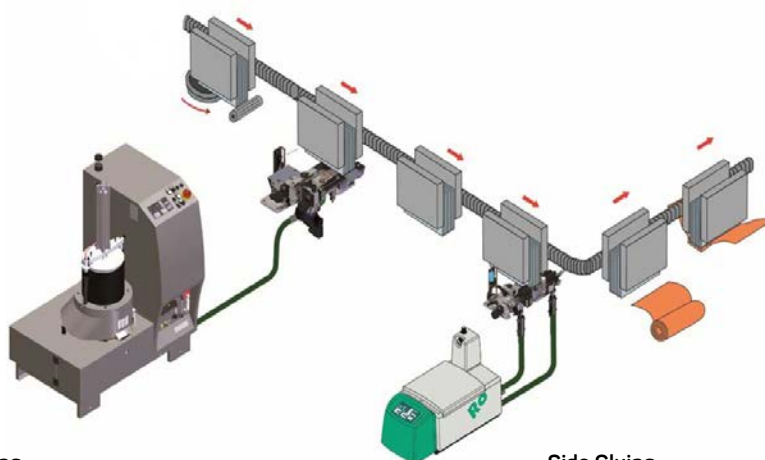
Spine Gluing
RobaPUR 2 MOD
SpineCoat 80

Side Gluing
Concept Diamond 5
SideBead

MEDIUM VOLUMES (2'000 TO 6'000 BOOKS / H)

Application

- Small to medium editions
- Softcover and book block production
- Digital and offset printing
- Unbound books manually or automatically fed, gathering machine and conveying



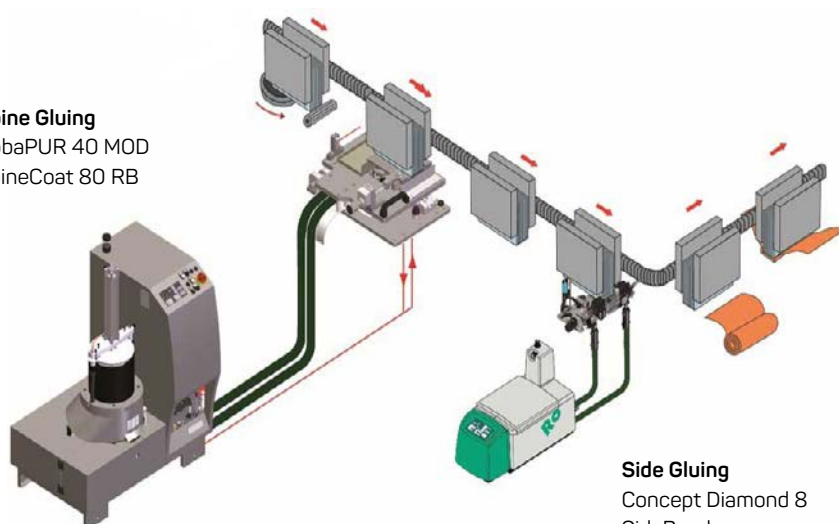
Spine Gluing
RobaPUR 35 MOD
SpineCoat 80

Side Gluing
Concept Diamond 5
SideBead

HIGH VOLUMES (2'000 TO 16'000 BOOKS / H)

Anwendung

- Softcover, rarely book block production
- Offset and rotogravure printing, rarely digital printing
- Gathering machine and conveying, unbound book blocks automatically fed (rarely manually)



Spine Gluing
RobaPUR 40 MOD
SpineCoat 80 RB

Side Gluing
Concept Diamond 8
SideBead



TECHNICAL DATA

TECHNICAL DATA – MELTERS

	RobaPUR 2 MOD	RobaPUR 35 MOD	RobaPUR 40 MOD	Concept Diamond 5 / 8
Adhesive	PUR			EVA
Melting capacity*	10 kg/h	35 kg/h	40 kg/h	5 / 8 kg/h
Delivery pump	Gear pump ZP 3 S			Piston pump KPC 12
Pump rate*	50 kg/h			5 - 50 kg/h
Delivery pressure	Max 100 bar			12 - 72 bar
Viscosity**	1 000 to 10 000 mPas			100 to 20 000 mPas
PUR hot melt inert gas flushing	Integrated membrane compressed air dryer			-
Return system	-	-	integrated	-

*Reference value, melting capacity depends on adhesive used, $\rho = 1 \text{ kg/dm}^3$

** Process-dependent

TECHNICAL DATA – APPLICATION HEADS

	SpineCoat 80	SideBead
Adhesive	PUR	EVA
Viscosity *	1 000 to 10 000 mPas	1 000 to 10 000 mPas
Book block length	100 to 500 mm	100 to 500 mm
Book block thickness	2 to 80 mm	2 to 80 mm
Number of books	Max 16 000 b/h at 24" clamp distance (with return system)	7 000 b/h
Adhesive application thickness	0.3, 0.4 and 0.5 mm	1mm bead

*Process-dependent