
BONDING MACHINES.

LAMIT



**BUILDING-BLOCKS FOR THE FUTURE:
„INTELLIGENT BONDING TECHNIQUE SINCE 1989“**

Since 1989, Lamit has been focusing on supplying the mattress industry with automated bonding machines and line concepts for the production of raw mattresses and has become the world leader in this field. Lamit is a pioneer in the development and manufacture of automatic module systems and line concepts for all common bonding processes in the mattress and foam processing industry.

2015 by acquiring of the product line and taking over of the sales-related activities of Lamit, we have expanded the range of our products. This made it possible to integrate bonding technologies as a further production step into automated production lines.

The new Bäumer Lamit bonding technology offers two different bonding methods. Depending on the application and in particular on the mattress or material type, either water based or hot melt adhesives are used. These can be processed on our bonding machines: Lamit RB and Lamit-HM. The Lamit-Twinglue combines the advantages of both bonding processes in one product line.

The new product portfolio of Bäumer Lamit also includes a wide range of handling systems such as automatic sheet loading system or fully automatic loading system.

SERVICE WORLD-WIDE AND CUSTOMER-ORIENTED

Optimally qualified, highly motivated and extremely flexible. The Bäumer all-round service offers you safety and reliability. We are always ready to listen to your requirements and adapt our service activities individually to your needs.

We coordinate the necessary service measures all over the world and in several languages. Starting with giving technical advices on the purchase of spare parts and delivery up to the assembly and repair work we take care of everything to secure the flow of your production.

Please contact our hotline to get further information:

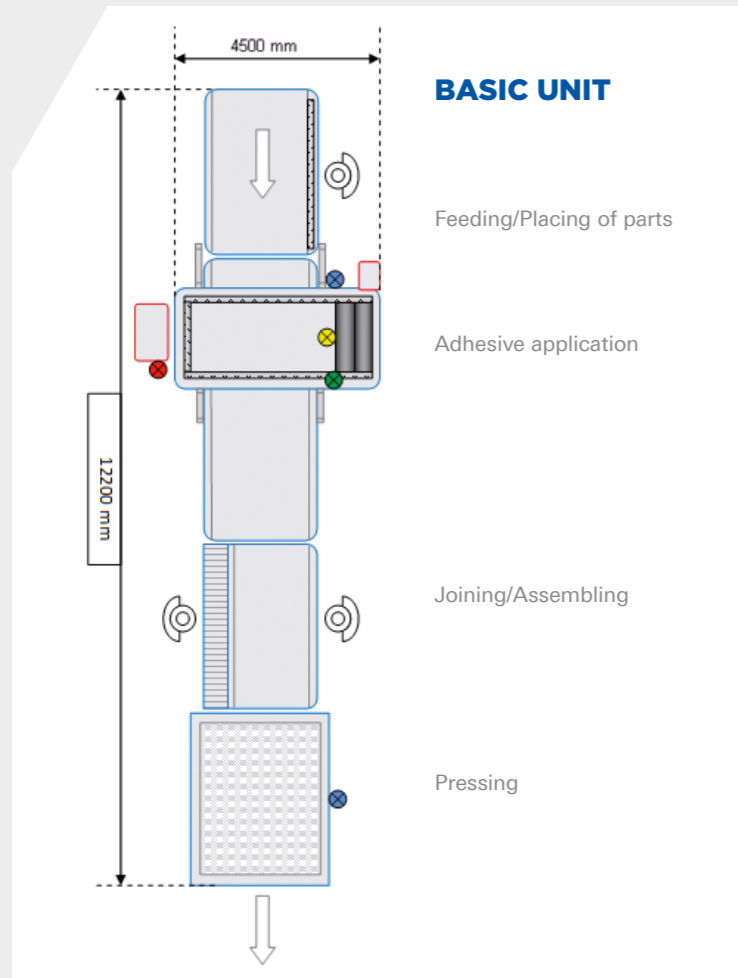
Phone: +49 2734 289-372

e-mail: service@baeumer.com

SPARE PARTS

We have a wide range of high quality spare parts specially made for the original bonding machines.





FEEDING/PLACING OF PARTS



ADHESIVE APPLICATION (E.G. THERMO ACTIVATED WATER-BASED ADHESIVES)

The basic principle of the manufacture of mattresses and foam converting operations consists of linking the same work steps:

1. Feeding/Placing of parts
2. Adhesive application
3. Joining/Assembling
4. Pressing
5. Removing and stacking

This holds true for manual adhesive application as much as for highly automated laminating processes. Lamit provides machine modules for each of these work steps. Linked together, they form the well-known Lamit production line concepts.

Starting off with the basic unit (comprising a laminating machine, assembly conveyor/s and press), the production line can grow with the customer's success by adding logistic systems and Lamit automatic handling robots for feeding, mating, stacking etc. at any time.

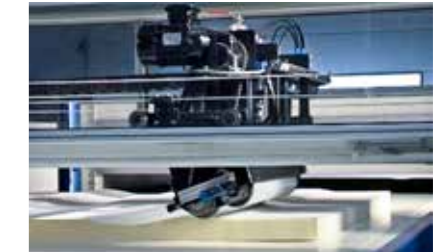
ROLL LAMINATING AND BONDING MACHINES



ASSEMBLY CONVEYOR WITH TILTABLE SEGMENT



PARKING POSITION: AUTOMATIC PARKING POSITION WITH WATER CLEANING DEVICE



PROCESSING OF PROFILE AND WAVE-SHAPED FOAM

- Robust bonding tower with integrated double roller laminating system
- "Parking Position" at one side of the bonding tower for driving the complete laminator out of the machine providing easy access during cleaning and maintenance
- Container platform for glue container (for adhesives which are fed via gravity)
- Complete adhesive supply system in the machine (from container to roller applicator)
- Automatic swivel commands for transversal laminating in both directions (from left to right and from right to left)
- Automatic adhesive level control in the laminator with automatic adhesive filling transport conveyor (either with one long conveyor or with separate feed conveyor)

- Mechanic gap adjustment (for precise and uniform glue application from 55 g/sqm to 300 g/sqm (optionally with programmable electronic gap adjustment))
- Intelligent control systems with Profinet and Profibus connection
- Remote-diagnosis and online service
- Integrated remote maintenance module
- Comfortable HMI operator touch panel (Windows platform)
- Suitable product dimensions for all automatic machines: up to 2200 mm x 2100 mm x 400 mm
- Automatic and programmable adjustment to length, width and height

MODULE SYSTEMS AND PRODUCT LINE CONCEPTS



JOINING/ASSEMBLING



PRESSING

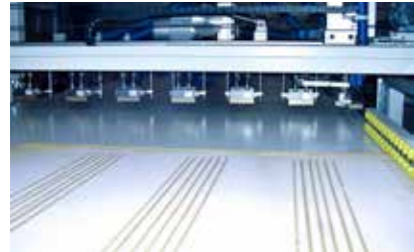


REMOVING AND STACKING



ROLL LAMINATING AND BONDING MACHINE LAMIT-RB

HOT MELT BONDING MACHINES



BEAD/STRIPE APPLICATION



SWIRL APPLICATION



OSCILLATING STRIPE APPLICATION

- Rigid constructions with one or two bonding towers (depending on required output)
- Minimum maintenance requirement
- High availability and reproducibility
- Flexible production due to "multi-purpose" programming for all types of mattresses
- Efficient hotmelt equipment with different melter sizes: 25 kg, 45 kg, 65 kg, 80 kg and 130 kg
- Two independent adhesive feeding circuits for glue heads
- Digital temperature controllers with automatic self-optimization
- Various adhesive application patterns, i.e. straight, oscillating and/or rotating beads, spray application, etc.
- Programmable adhesive application amount
- Automatic adjustment to any panel size (length, width, thickness)
- Intelligent command systems with Profibus technology
- Automatic and selfoptimizing process control and automatic fault messages
- Comfortable command systems based on Windows platform
- Special machines with roller applicator for the processing of polyurethane hot melt adhesives



HOT MELT BONDING MACHINE LAMIT-HM

EXTENSION FOR PRODUCTION LINES

MATTRESS AND SANDWICH PRESSES



Automatic mattress press with adjustable pressure and pressing cycles.

ADHESIVE DRYER



Adhesive dryer for the use of thermo-activated water-based adhesives.

STACKING SYSTEM FOR FOAM AND SPRING MATTRESSES



Automatic mattress stacker for careful and accurate stacking of newly bonded mattresses.

ASSEMBLY AND TRANSPORT CONVEYORS



Depending on the production capacity and mattress design the bonding machines can be additionally equipped with assembly and transport conveyors.

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