



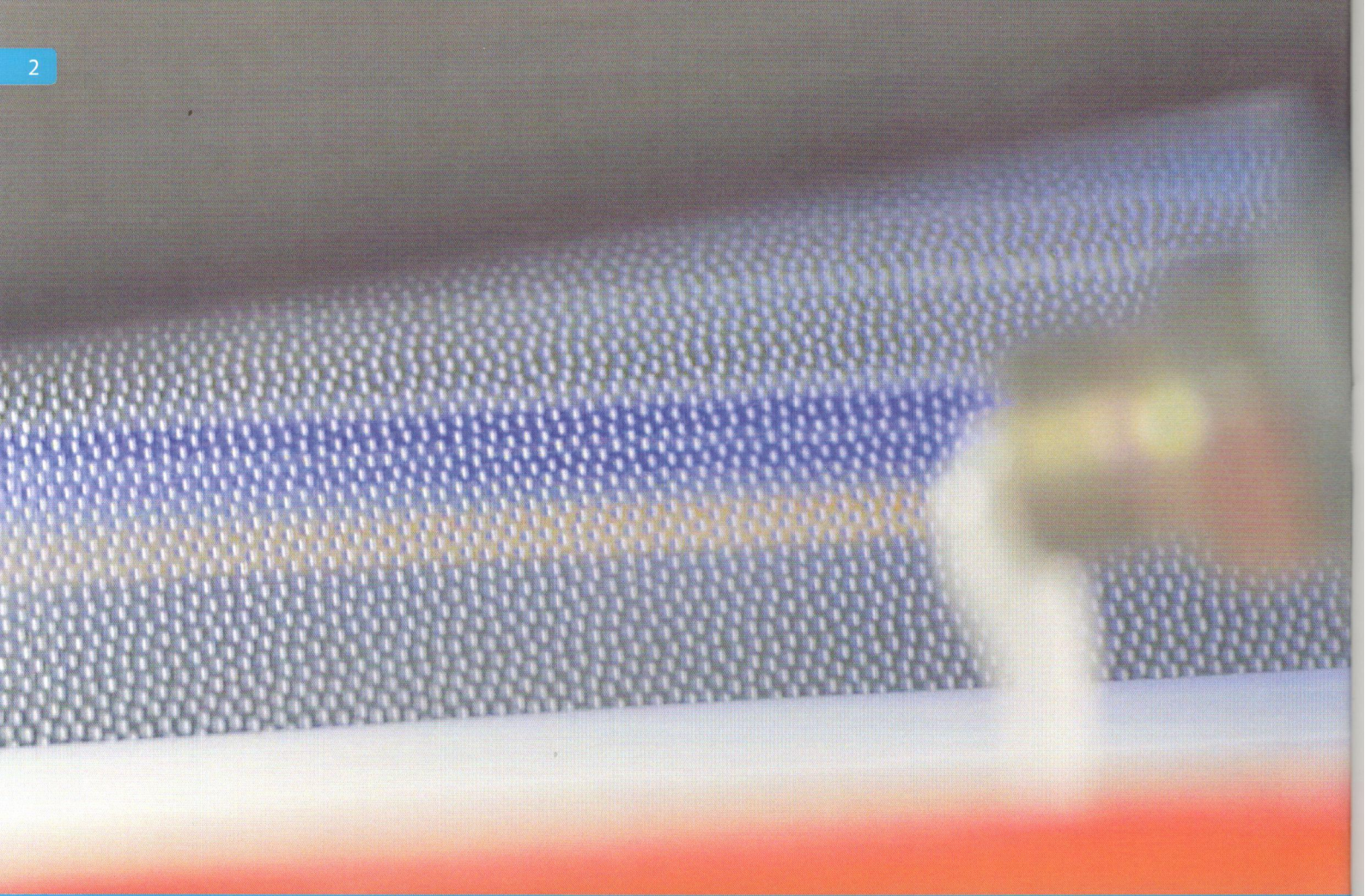
**LACOM** 

**Application Systems**

Highest product quality and diversification, low costs.

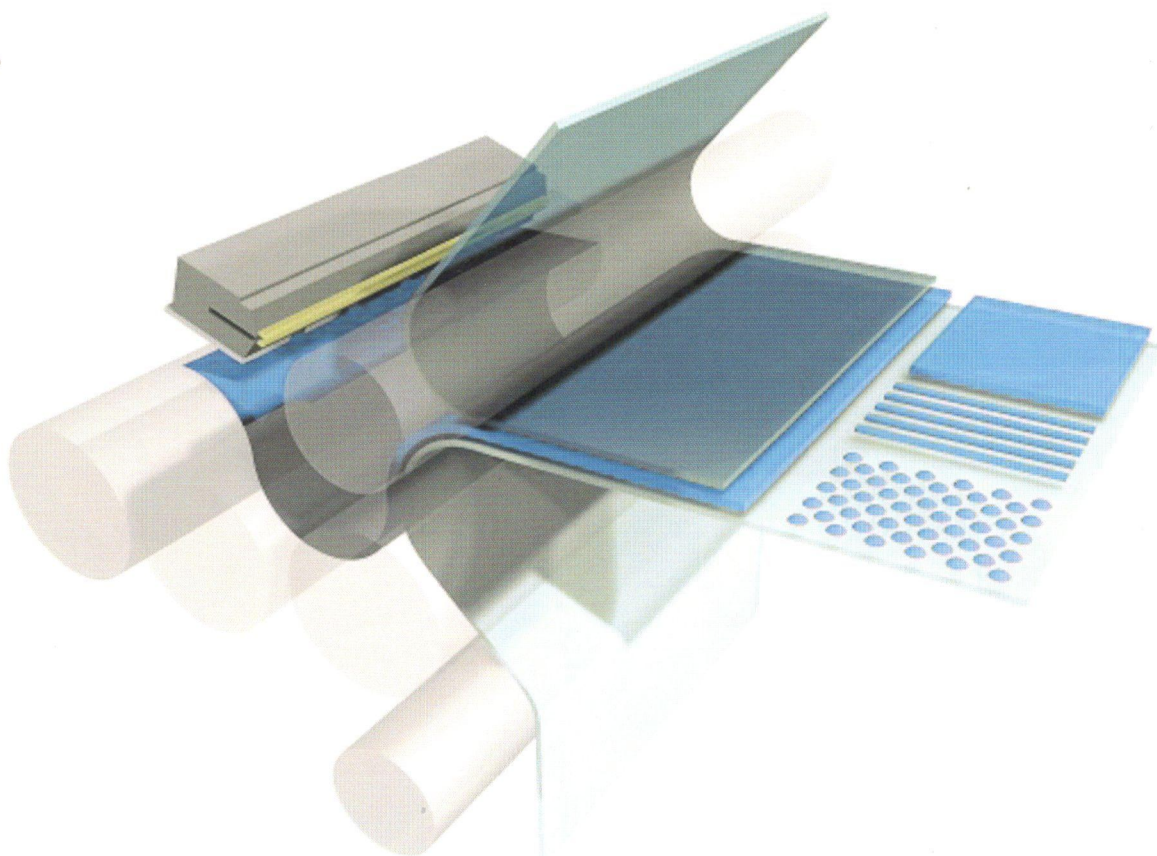






**Highest productivity. Top process- and product safety. Maximised efficiency. Cost savings. Human- and environmental friendly. Low emission. Modified carbon footprint. Technical availability. Application systems. GBL. MRBL. MPBL. DBL. Driving. Feeding. Melting. Coating and Lamination. Bonding. Hotmelt. Dispersion. Functional coatings. Solvent and adhesive free. Ultrasonic. Laser. Thermal. Roller. Extrusion. Nozzle. R2R. Batch2batch. Non-Stop. Robot integrator. Turnkey. Robotcell. Evolution. Duplex. Vario. Standard. Compact. Pilot. Multi roller carpet. Multiflex. Customised solutions. Training and Technology center. Solution provider. Ready for implement. Industrial approved. Market leader. Start-ups. Regional. Global. Owner operated. Competence. Excellence. Skilled. Practical. Excited. Courageous. Innovative. Made in Germany.**





### The LACOM application systems – versatile and future oriented

As one of the leading manufacturer of laminating and coating machines our technologies and innovations have been the driving factors to success. The slot die application head, the Gravure-roller technique as well as the multi-roller technology are just some examples for the development of future oriented ideas.

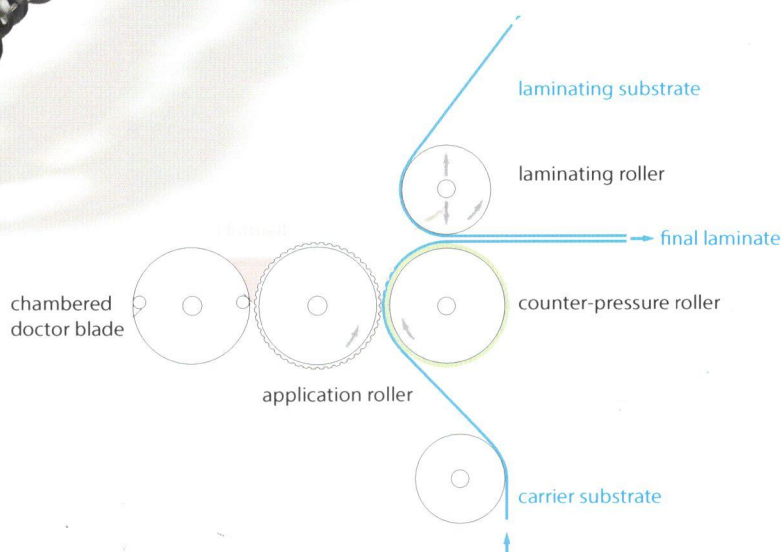
The Multi-Purpose System is the most innovative and state of the art technology ever seen in laminating and coating. Our orientation is always our customer and the market. They are the key factors for a steady development of new innovative ideas.

## GBL GRAVURE ROLLER SYSTEM

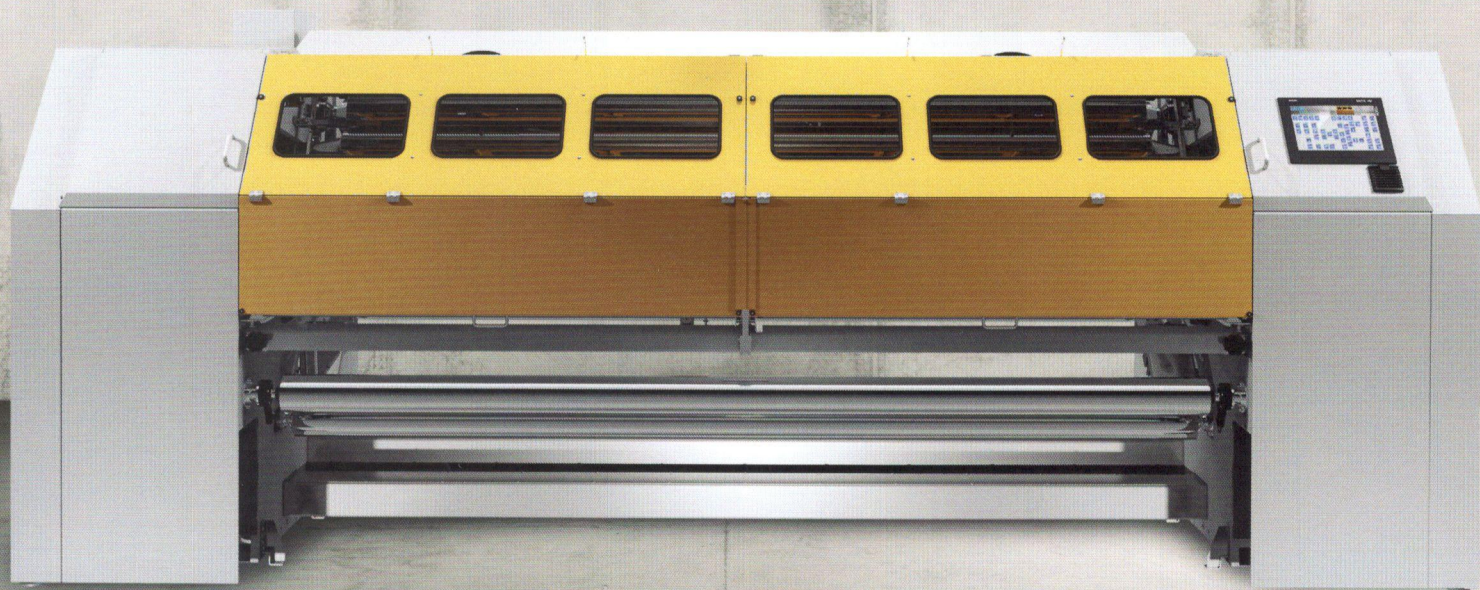
### Engineered to the heart

The gravure roller laminating and coating head is used to produce breathable laminates and coatings. The base material retains its soft hand feel and still achieves a high bonding strength. This coating technology works extremely sparingly and with high efficiency, since very high production speeds are reached.

- Dot coating
- Production of duplex and triplex laminates by thermoplastic or reactive hot melt adhesive systems
- Air permeable laminates
- Soft hand feel of the laminates
- Low energy consumption





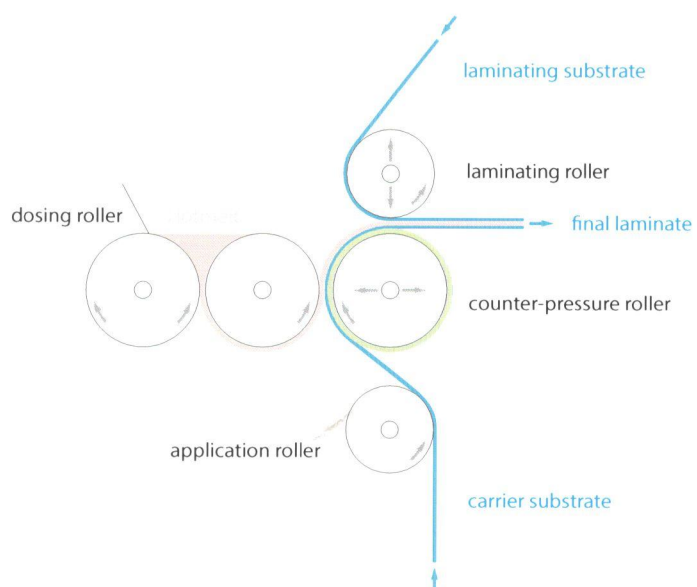


## MRBL MULTI ROLLER SYSTEM

### Guaranteed flexibility

The Multi Roller laminating and coating head it is used for full-cover coating of various materials and provides an extremely high bonding strength with all products, that are exposed to very high loads in everyday use.

- Back coating of textiles
- Coating of airbag fabrics
- Full cover coating of substrates e.g. carpet backing, shoe toe and heel stiffener, upholstery fabric, mattress ticking
- Air permeable laminates
- O.C.S. (Open Coating Structure)
- Full cover coating



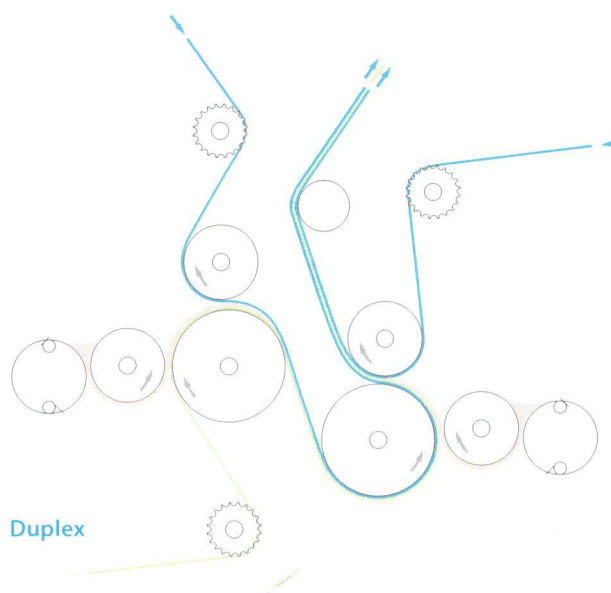
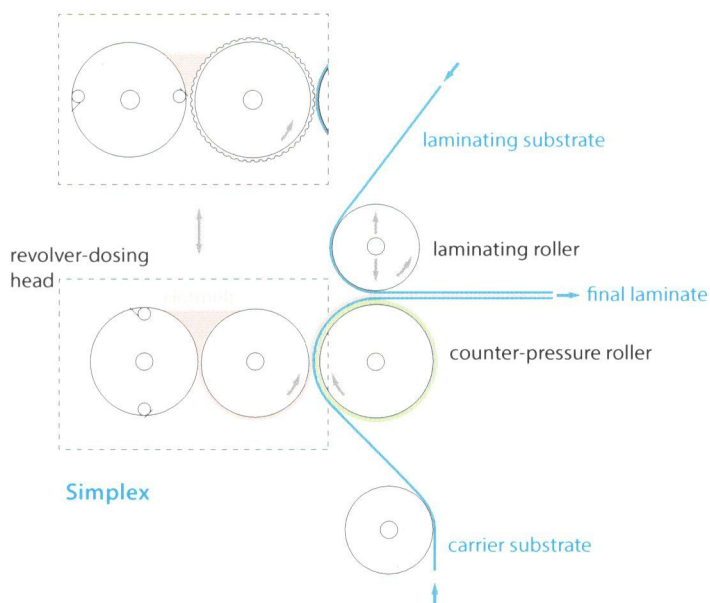


## MPBL MULTI PURPOSE SYSTEM

### Patented flexibility for the production

The Multi-Purpose – hotmelt laminating and coating system is **very versatile**. By combining a gravure roller and a multi-roller system we create unprecedented flexibility in production, which allows you to quickly switch between a wide variety of materials, without having to take any losses in your production. This is state of the art technology developed by LACOM.

- Combined Gravure- and Multi Roller Machine
- Easy system exchange without mechanical alterations
- Application of thermoplastic- and reactive hot melts (PUR)
- Air permeable laminates and full cover coatings
- Dot coating
- O.C.S. (Open Coating Structure)
- Full cover coating





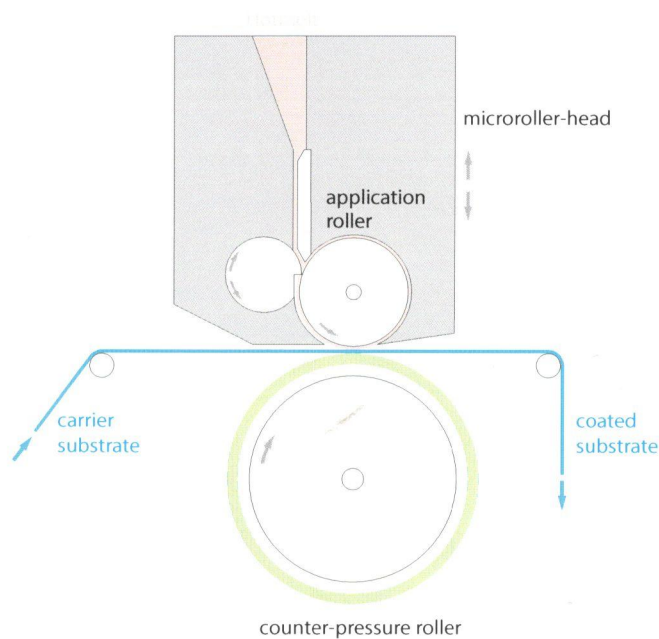


## MICROROLLER SYSTEM

### Hot melt coating machine for formats and rolled goods

The Microroller coating system is the perfect solution for treating formats and rolled goods. It is designed to be space saving and ergonomic. The Microroller coating system can apply full cover coatings as well as dot coatings by using the established roller application system. Using hot melt technology reduces the consumption of energy and raw material to a minimum. The Microroller coating system guarantees a high process and product safety combined with a maximum of efficiency.

- Roller application system
- Full cover as well as dot coating
- Thermoplastic and reactive hot melts
- Temperature: 80° - 200°
- Viscosity: 3.000 - 60.000 mPa
- Application weight: 10 - 200 g/m<sup>2</sup>
- Working width: 650 - 1200 m





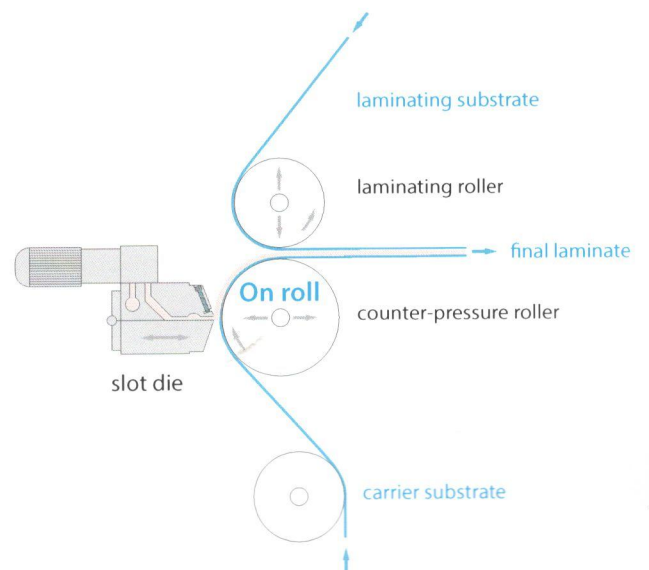
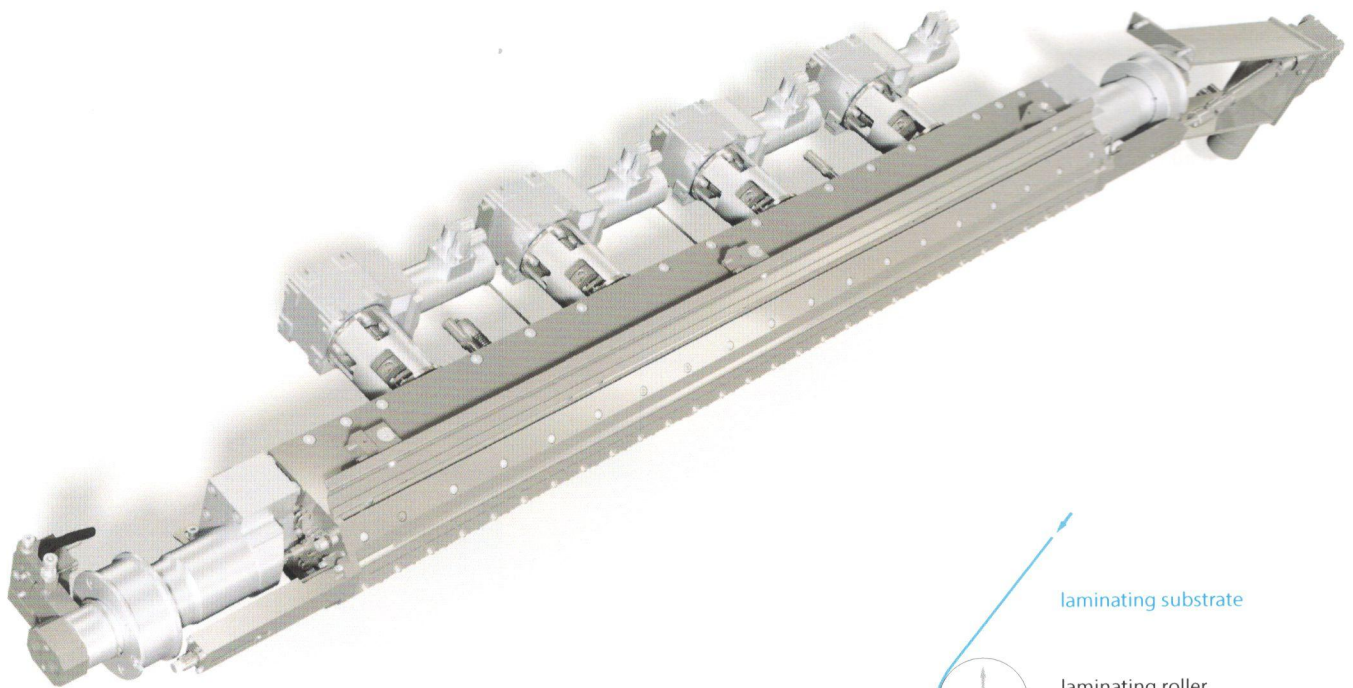
## SLOT DIE

### Specialist for viscosities

The slot die is versatile. In addition to the full cover coating you can also work with an open coating structure, which allows air permeable laminates. The slot die coating allows the exclusion of air.

The two biggest advantages of a slot die system are the application of highly viscous media at very high production speeds.

- O.C.S. (Open Coating Structure)
- Full cover coating
- Production of duplex and triplex laminates by thermoplastic or reactive hot melt adhesive systems
- Air permeable laminates
- Soft hand feel of the laminates
- Closed application system (no contact with moisture)
- Processing with high viscous products
- High production speed



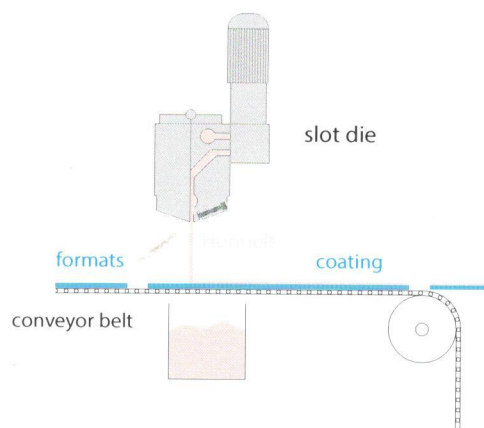
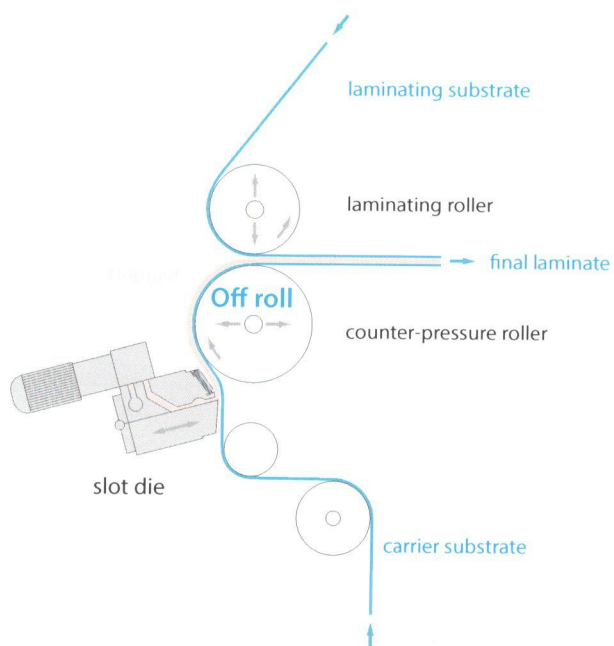
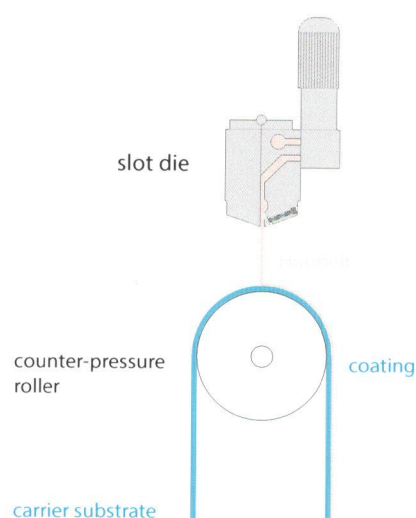
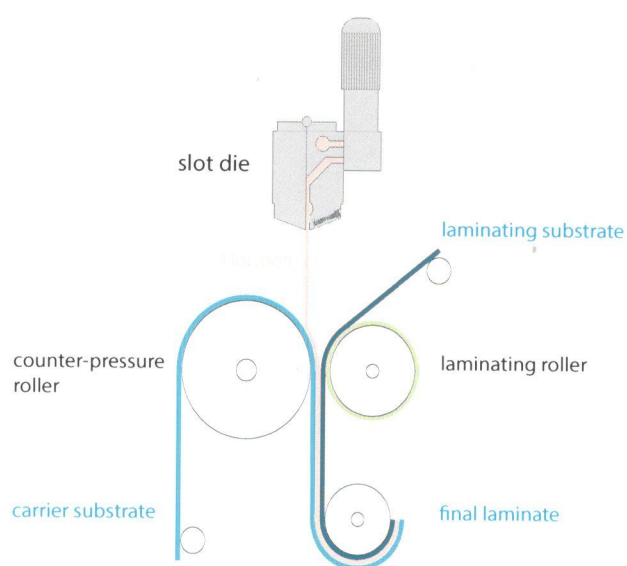


## SLOT DIE – CURTAIN COATING

### Extremely fast, contactless application

The slot die is a closed system, the application media does not get in contact with air, which reduces the amount of cleaning time significantly, especially when you use reactive adhesives. The use of the curtain coating technology allows the application of homogeneous films on a substrate at very high production speeds and with great reproducibility. The curtain of adhesive

falls onto a moving substrate, the application weight is the result of the amount of adhesive resigning from the nozzle and the speed of the substrate. This completely contactless application technique is best used for temperature sensitive and mechanical sensitive substrates as well as fragile materials.





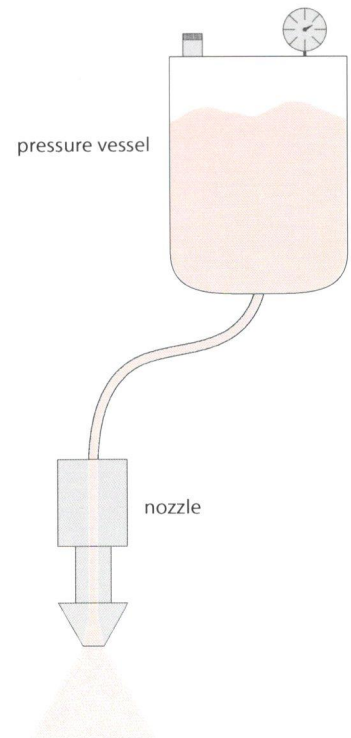
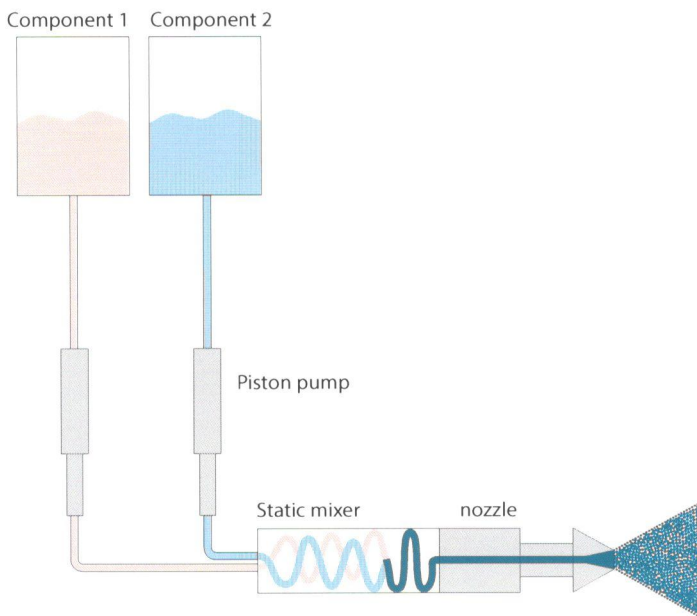
## SPRAY APPLICATION

### Success in every drop

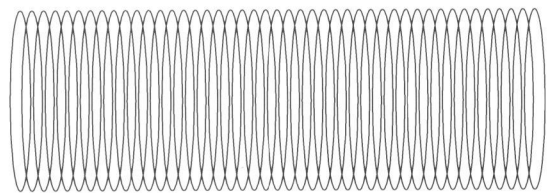
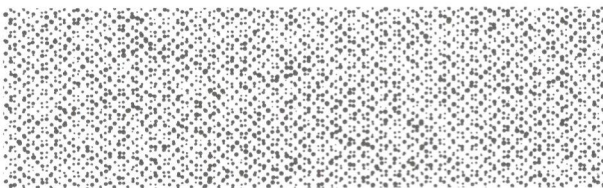
The spray application is the perfect solution for temperature sensitive or 3-dimensional substrates. It is divided in three major techniques, air less (without compressed air) and air-coat (with compressed air) as well as spinspraying. Depending on the spraying media the aircoat technology can be realized with a LVLV (Low volume low pressure) or with a HVLP (High volume low pressure) application process, whereby both offer a reduction in overspray when compared to high pressure systems. The droplets can be sprayed as monodisperse or polydisperse droplets. The application picture can be divided in two pictures, round- and flat spray nozzles. Choosing a nozzle is mainly dependent on the rheology of the applied media.

- Pressure (Application media): up to 250 bar
- Pressure (Nozzle exit): up to 12 bar
- Viscosity: up to 100.000 mPas
- Temperature: up to 220°C
- Speed: up to 1 m/s  
(when using dispersions)
- Application weight: up to 0,5 kg/h
- Spraying angle: up to 170°
- Overspray: 5 - 40 %

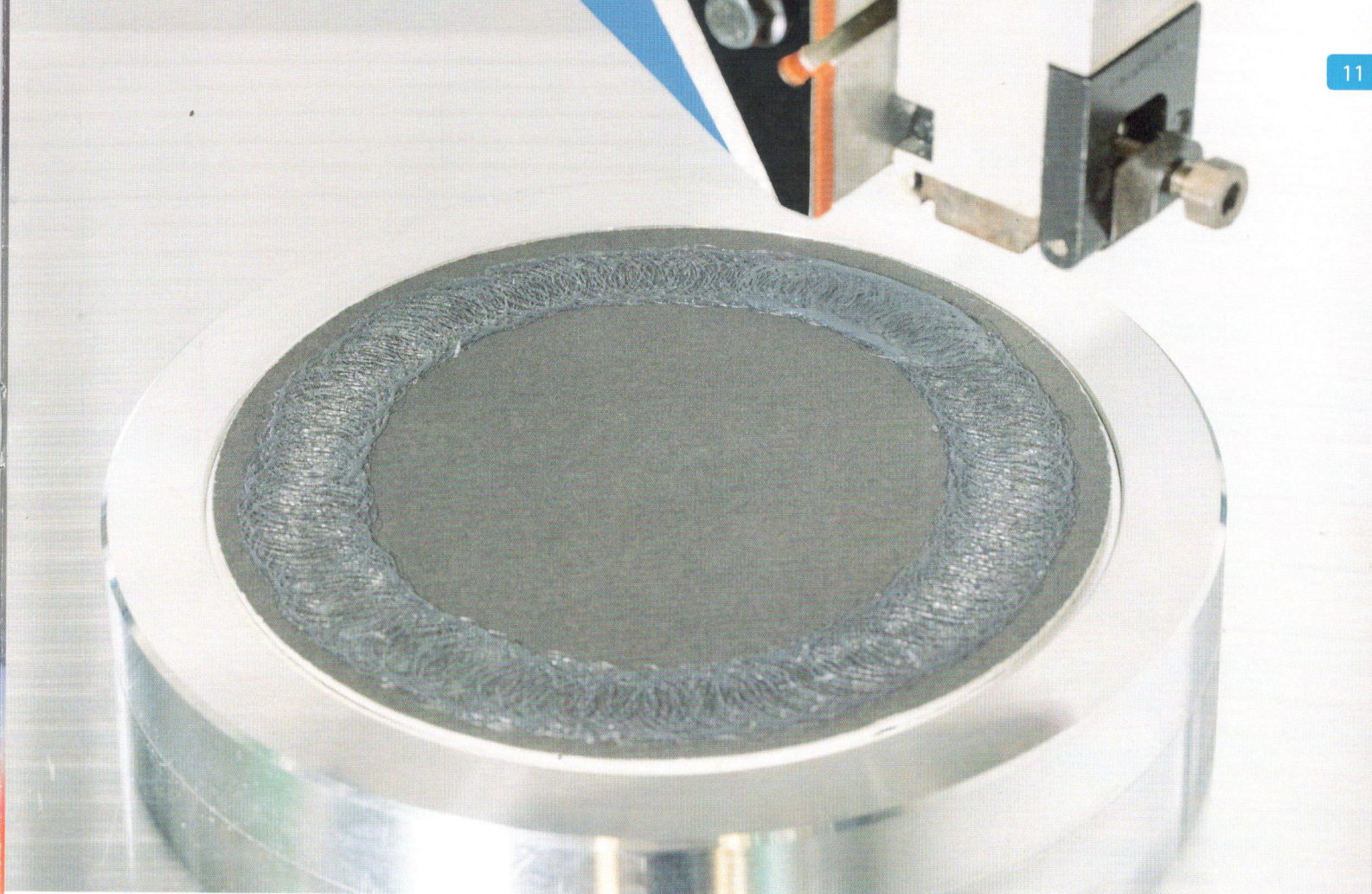
### Adhesive processing:



### Coating picture:







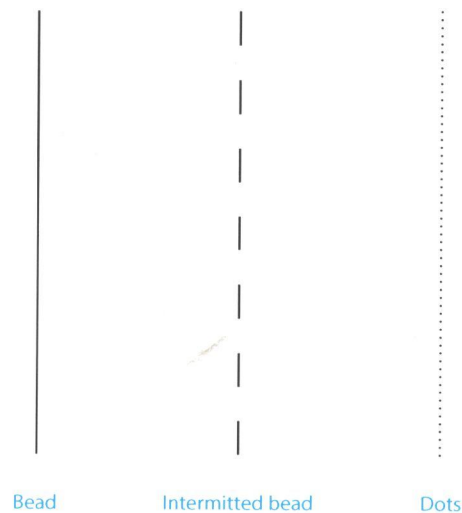
## DISPENSER

### Perfection all across the line

The bead application is perfect for edge-gluing and sealant application with a robot arm. Depending on the nozzle geometry different beads are possible for example flat beads or triangular beads, also as dot or intermitting bead. The valve timing for intermitting beads is controlled by either a spring or by air pressure depending on the speed and life span. For temperature-sensitive substrates the bead can be applied with a predefined height between nozzle and substrate. The application media is the defining factor for the pressure and temperature window of the nozzle.

- Pressure: up to 12 bar
- Viscosity: up to 100.000 mPas
- Temperature: up to 220°C
- Speed: up to 1 m/s
- Application weight: up to 0,5 kg/h
- On/off cycle speed: up to 6.000 min

### Application picture dispenser:

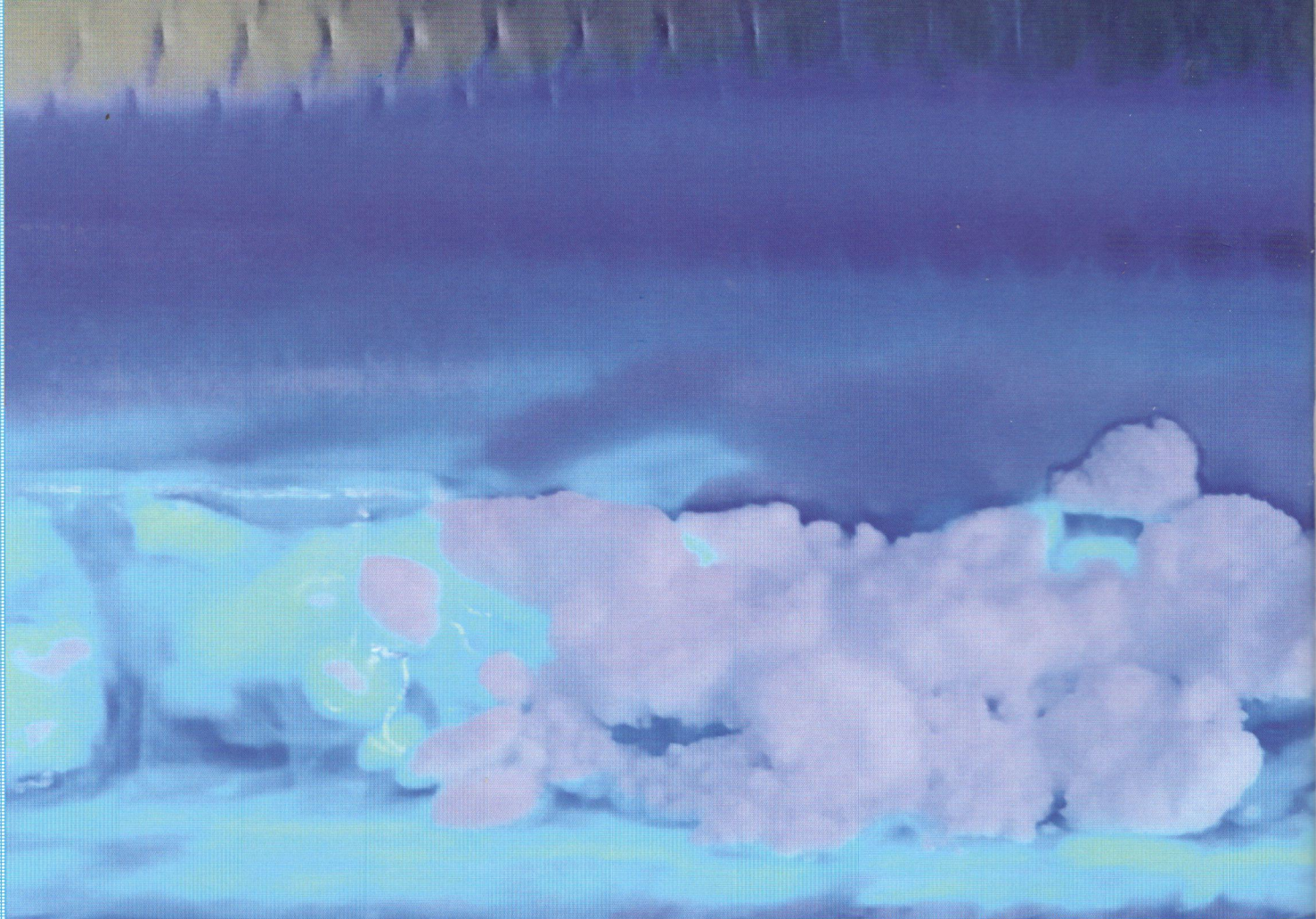


Bead

Intermitted bead

Dots





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