

31. Hofer Vliesstofftage

9th and 10th of November 2016 Freiheitshalle – Hof

LACONS

Machine and production line concepts for solvent free coatings of technical textiles with functionalized hot melts



Content

- Application techniques and their suitability for the production of technical laminates
- Structures and geometries and their texture for the fulfilment of presumed requirements
- Continuous treatment of rolled goods
- Machine concepts under the focus of efficiency and ecology
- Discontinuous treatment of format goods Robot based applications
- Technology shift and market demands



Kiener Group

Kiener Maschinenbau GmbH	Kiener Hungária Fémipari Kft.	Lacom GmbH	Kiener Shanghai Mechanical and Electrical Equipment Co. Ltd.	COMAG Engineering GmbH
LauchheimBopfingenNeunheim	• Lébény	LauchheimDinkelsbühl		WienSaalfelden
	100% subsidiary company	100% subsidiary company	100% subsidiary company	100% subsidiary company
assembly machines/ testing technology development construction production assembly commissioning	assembly machines/ testing technology development construction production assembly control cabinet commissioning	laminating and coating machines development construction production assembly commissioning automation and robotic	assemblycommissioningservice	Tools and machines for laminating, punching, edge folding and welding of automotive interior parts
360 Employees	120 Employees	35 Employees	25 Employees	35 Employees
Annual turnover:	Annual turnover:	Annual turnover:	Annual turnover:	Annual turnover:

KIENER KIENER LACOM KIENER COMAG

www.kiener-online.de

105 million €

www.kiener-online.de

12 million €

www.lacom-online.de

10 million €

www.kiener-shanghai.com

1 million €

www.comag.at

4,5 million €



CEO: Dipl.-Ing. Waldemar Kiener

CTO: Dipl.-Ing. Stefan Kiener

CFO: Dipl.-Kfm. techn. Jürgen Kiener

Lauchheim:

Sales Dipl.-Ing. Achim Schaile

Marketing Sleiman Khalil Product Management Johannes Maier

Dinkelsbühl:

Sales Patrick Bosch







Application techniques

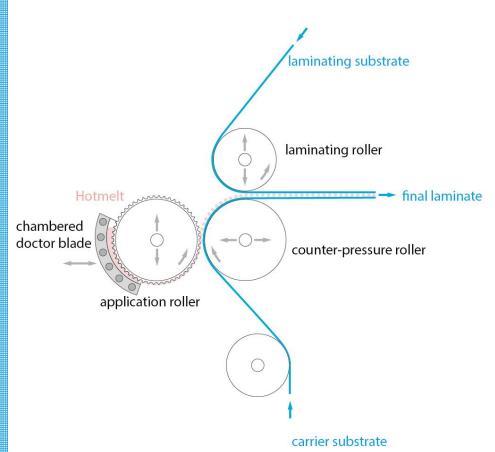
Hot melts

- Gravur-Roller System
- Multi-Roller System
- Multi Purpose System
- Slot die System

Dispersion

- Blade -System
- Multi-Roller System
- Slot die spray System

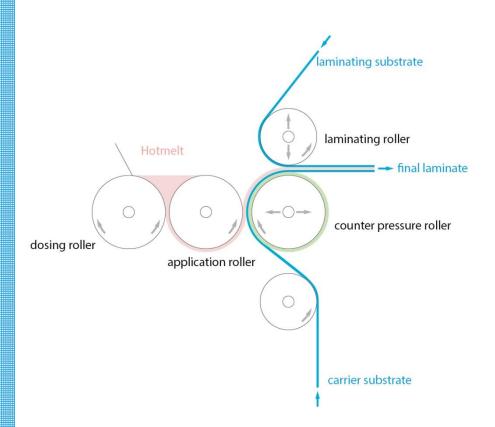




Gravure-Roller System

- Dot coating
- Production of duplex and triplex laminates by thermoplastic or reactive hot melt adhesives
- Air permeable laminates
- Low energy consumption
- Application of thermoplasts- and reactive hotmelts
- Application weight from 3-40g/sqm

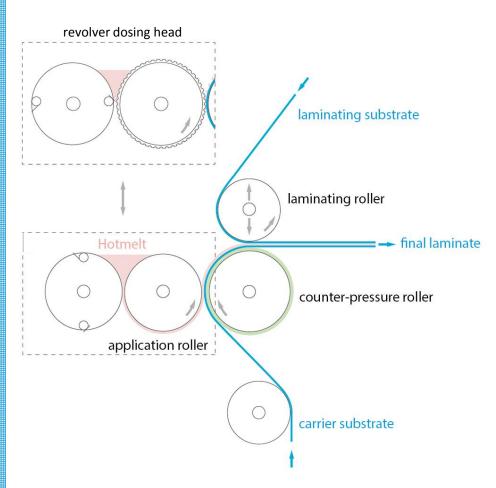




Multi Roller System

- Back coating of textiles, film and paper
- Full-cover coating
- O.C.S. (Open Coating Structure)
- Breathable coatings and laminates
- Application of thermoplastic and reactive hotmelts
- Application weight from 5 -1500g/sqm(RV)

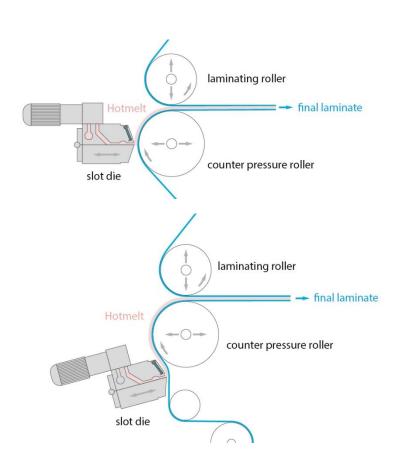




Multi Purpose System

- Combined Gravure- and Multi Roller
 Coating unit
- Easy and fast setup of respective coating modus
- dot coating O.C.S. (Open Coating Structure)
- Breathable laminates and full cover coatings
- Application of thermoplastic- and reactive hotmelts (PUR)



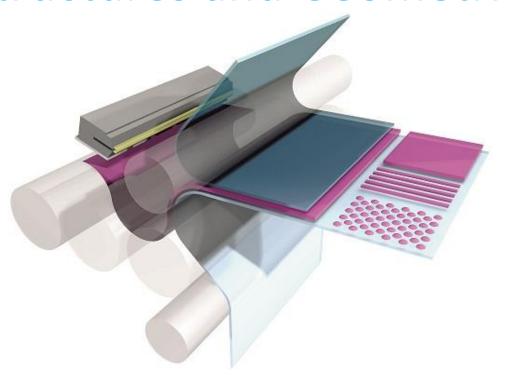


Slot Die System

- Full cover Coating
- O.C.S. (Open Coating Structure)
- Production of Duplex and Triplex laminates
- Breathable laminates
- Application of thermoplasts- and reactive hotmelts (PUR)
- Application weights 5 to 3.500g/m²



Structures and Geometries



Coating Results

- Dot
- Stripes
- O.C.S
- Full cover

Features

- Breathability
- Hydrostatic head
- Additional functions



Continuous treatment of rolled goods





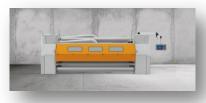
Machine concepts under the focus of efficiency and ecology

LACOM COMPACT VERSION



- Modular Design
- Integrated unwinders, winder and edgeguiding system
- Working Width:
 800 1000 1800 2100-2400-3.200 mm
- Production Speed:5 40 m/min.

LACOM DUPLEX VERSION



- Modular Design
- Working Width:
 1800 3300 mm
- ProductionSpeed:5 150 m/min

LACOM VARIO VERSIÓN



- Modular Design
- Working Width:
 1000 3200mm
- Production Speed:5 150m/min



Machine concepts under the focus of efficiency and ecology

STANDARD VERSION



- Modular Design
- Working Width:
 2.000 2.400mm
- Production Speed:5 60 m/min.

LACOM



- Modular Design
- Working Width: 4.200 - 5.200mm
- Production Speed: up to 20m/min

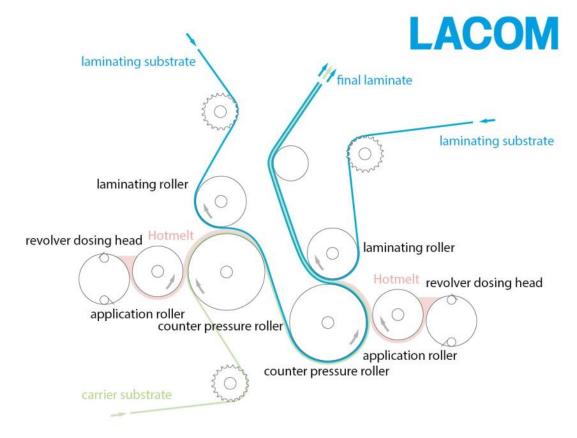
LACOM MRC VERSION



- Modular Design
- Working Width:
 4.000 5.200mm
- Production Speed: up to 20m/min



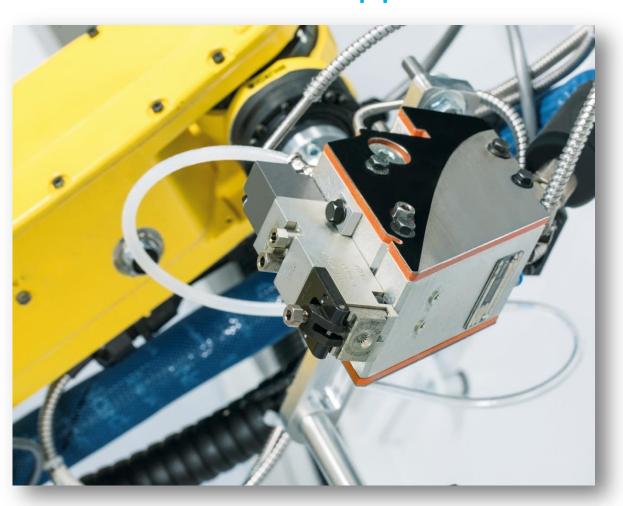




Multi Purpose Duplex application head

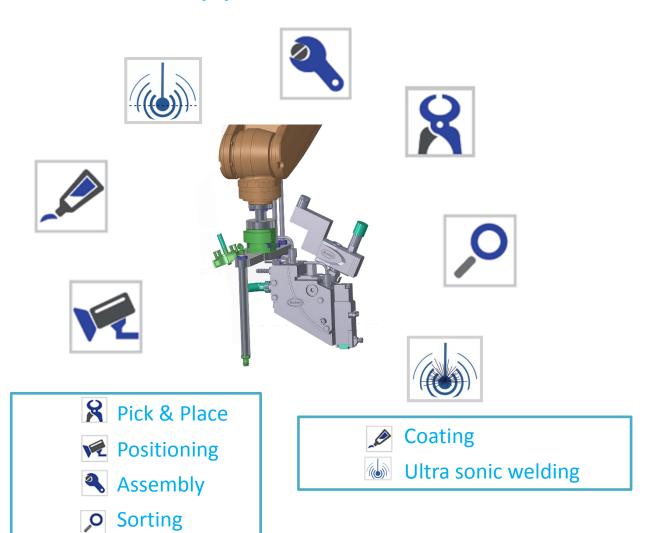


Discontinuous treatment of format goods – Robot based applications





Robot based applications





Robot based applications





LACOM Microroller System



- 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/m²
- Working width: 650-1200 mm



Technology Shift and market demands



Clothing



Building & Construction



Automotive



Agrar & Geo



Activewear



Heatprotection



Transportation



Shoes



Medical



Industry



Home & Living



Contract & Workwear



General technical requirements

- Breathability
- Water tightness
- Abrasion resistance
- Recyclability / Cradle 2 Cradle
- Flame retardence
- Slip resistant
- Improved stability
- Sound dampening
- Tear strength and cut resistance
- Ultraviolet filter
- Shock resistance
- Insulation
- Concrete reinforcement



Multifunctional fabrics

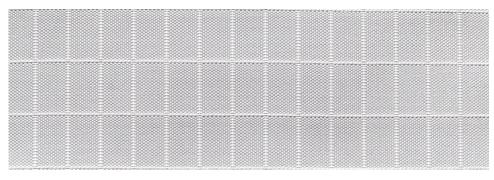




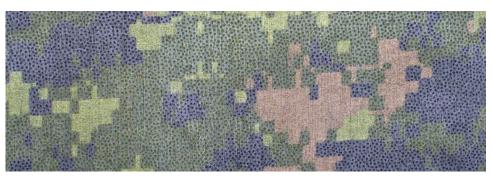


Contract & Workwear





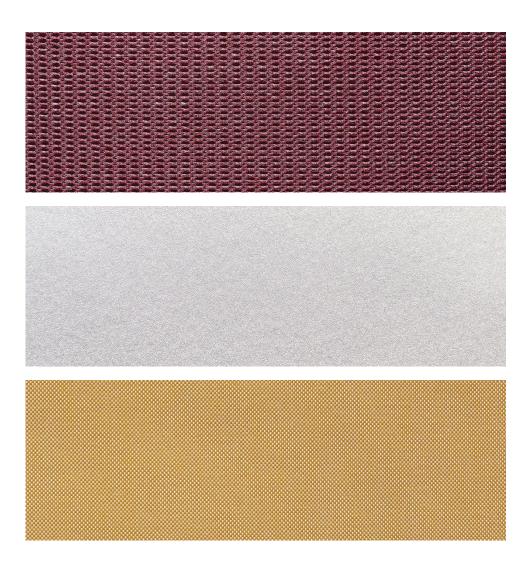






Automotive

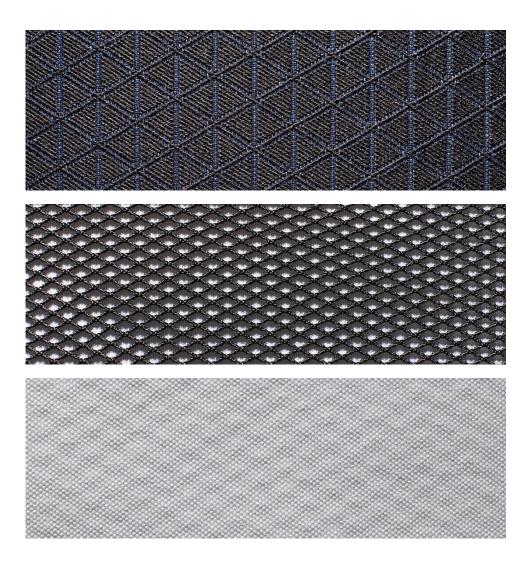






Transportation







Abrasive







Flooring systems











Building & Construction







Thank you for your attention! LACOM GmbH

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