

Tailored machine designs

Innovation through technological expertise



- > Custom solutions
- > Reliable and efficient
- > Top quality



Roth Composite Machinery
Pleating & Coating

Roth Composite Machinery Pleating & Coating

High-tech solutions and outstanding customer service



■ Tailored solutions for your production processes



The merger of EHA and SCHLESINGER to form Roth Composite Machinery brought together the Pleating & Coating division in a synergistic union. When it comes to your particular converting and finishing tasks for web materials, we provide an expert team of design engineers and technicians with application-specific experience who will be happy to take on your challenges to supply the ideal means of production. Take advantage of our broad experience in many different end product areas.

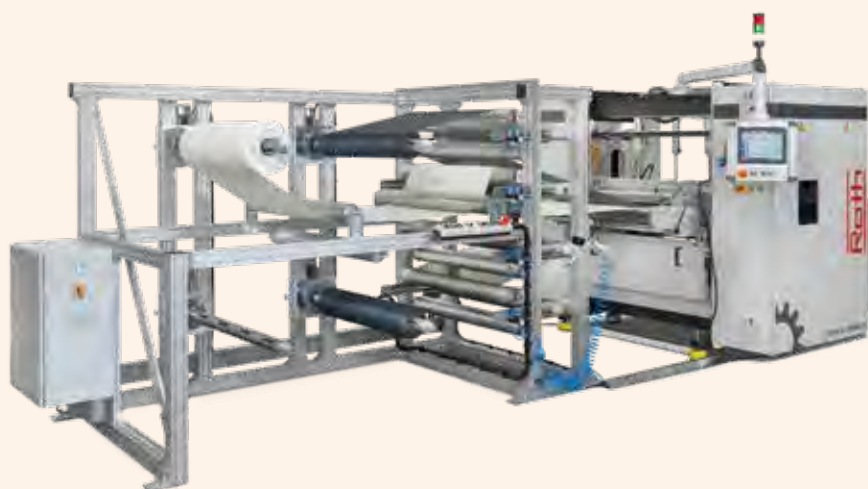
Our machine solutions are trusted around the world by leading manufacturers in their sectors: Automobile industry, industrial filters, medical technology, aerospace technology, machines, units and equipment for all process steps in finishing web goods such as paper, film, laminate, woven fabric or metal.



■ As complex your task – as individual our solution

The particular quality standards you require from a product produced on our machinery will determine our development/design approach and the technology we choose specifically for you. We look forward to the challenges you set for production equipment for pleating, coating and impregnating processes. Challenge us!





**Product range for the business field
Pleating & Coating**

- > Mechanically controlled or servo-driven knife pleating machines
- > Mini-pleat systems
- > Rotary pleating equipment
- > High-performance flotation dryers
- > Rewinders and unwinders
- > Applicator and impregnating units
- > Laminating stations
- > Material accumulators
- > Devices for slitting or cross-cutting
- > Custom solutions

■ Pleating technology

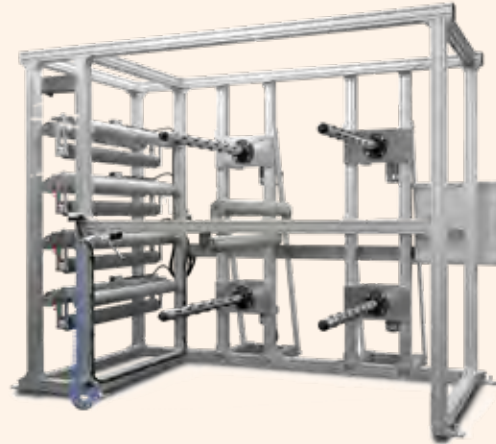
Take advantage of our wide range of products, the core of which includes both mechanically controlled and servo-driven knife pleating machines, as well as rotary pleating machines.



Pleating Machine range

■ AR 4 Unwind system

- › Basic frame depending on the application made of aluminum profiles or a welded frame
- › 1 to 10 unwind stations possible
- › Web edge guidance, traction regulations, meter counter e. g. optional available
- › Customized solutions easy to implement

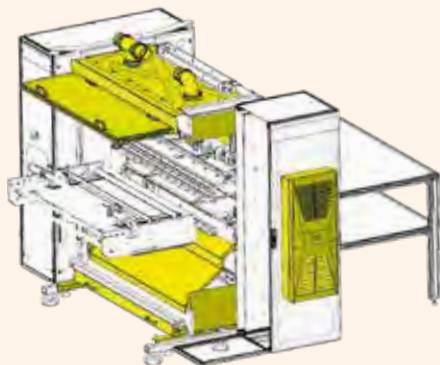


■ MFM-2-S servo knife pleating machine

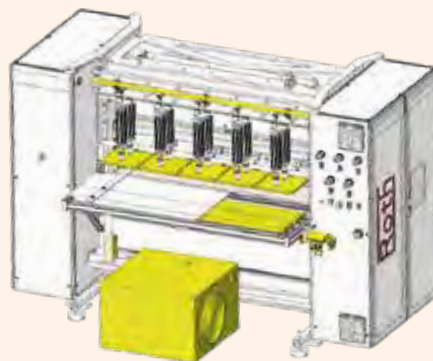
- › High pleating speeds thanks to mass optimization
- › Servo-driven knife movements
- › Controlled via industrial PC with touch panel
- › Fast and flexible program changes
- › For all common working widths and pleating heights
- › Optionally, a dust package and a cooling unit or a OPC-UA can be integrated



Option dust package



Option cooling unit



■ MPS mini-pleat system

- > Can be used as system module in line or stand-alone solution
- > Freely programmable nozzle control
- > Working width as required
- > User-friendly, flexible and customizable
- > Solid or foam hotmelt beads
- > Simplified parameter determination through Smart Pleat Pack Creator (option)



■ Interlinked production lines

The machines are constructed in a way that allows them to be interlinked in any configuration your process require. Through a choice of different operating modes, the modular and multi-functional production line for materials such as HEPA/ULPA offers our customers a completely new level of flexibility. If no mini-pleat products are produced, the unwinder and pleating machine, for example, can be used for other production tasks.



Module 1: Unwind system

Module 2: MFM-2-S servo knife pleating machine

Module 3: MPS mini-pleat system

Options and equipment

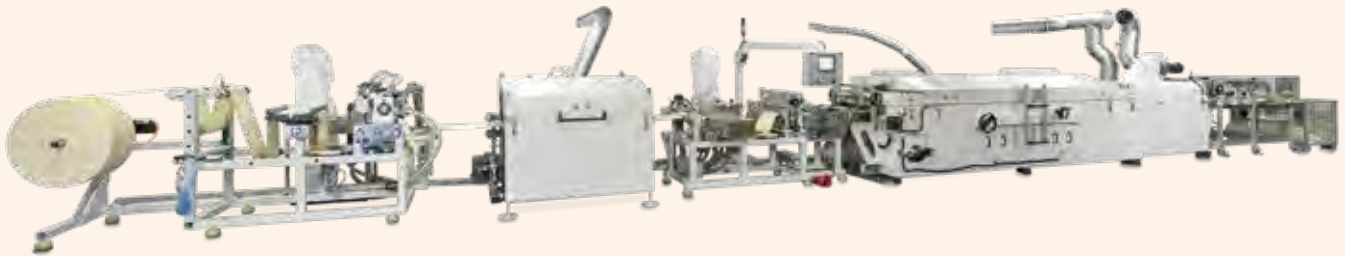
Roth Composite Machinery offers a wide range of options and additional units for the production lines. These include, for example, unwinders, web edge controls, cutting and perforating systems, marking devices, infeed and outfeed heaters and cross cutters.

Pleating

Machine range

■ RFM filter manufacturing line with rotary pleating machine

- > Rotary pleating machines impress with their individual design and equipment as they are basically very customer-oriented solutions
- > Complete production lines in all working widths as well as special pleating geometries are possible
- > Pre heating and post heating with different technologies
- > Condensing furnaces optionally with post-combustion and heat recirculation
- > Additional modules such as web guiding, suction systems, edge trimming and its disposal or even hot melt systems are optionally available



■ Optional additional aggregates (excerpt)



Cross cutter



Side sealing



Inline slitter



Hinged infeed table



Splice units with/without media buffer



Coating

Machine range



■ **Machines, units and equipment for all process steps in finishing web goods such as paper, film, laminate, woven fabric or metal**

- > Unwinding
- > Laminating
- > Drying
- > Fixing
- > Embossing
- > Coating
- > Cutting
- > Rewinding

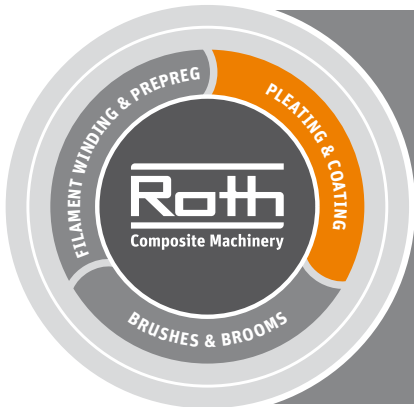
■ **Rewinders and unwinders**

- > Semi-automated and fully automatic machines
- > Continuous operation thanks to a flying splice system for maximum availability
- > Fault-free production thanks to tensile force regulation
- > Top product quality thanks to precise web alignment

■ **Coating & Converting**

Coating, impregnating, drying, laminating, winding, cutting...
If your production tasks require custom solutions and designs, then they will appeal to us.
We are happy to take on the challenge of designing machines that provide optimum support for your production process.





Roth Composite Machinery

Divisions

- > Filament Winding & Prepreg
- > Pleating & Coating
- > Brushes & Brooms

Technical expertise

- > Sophisticated and innovative technology
- > Custom solutions
- > Stable, process-robust equipment
- > Durable, easy-to-maintain machines

Consultation and service capabilities

- > Dependable contacts
- > Experience and application know-how
- > Global service
- > High availability of spare parts

Roth Composite Machinery a reliable partner worldwide

■ Customer satisfaction is our touchstone – trust needs to be earned

A partnership-based approach, comprehensive industry knowledge and many years of experience with solutions to demanding tasks; all of these provide the basis for the trust that customers have placed in Roth Composite Machinery for decades.

The know-how possessed by our mechanical engineering experts consists of being able to listen, think analytically and develop complete, customer-specific solutions with new technology. This not only generates trust, but also satisfaction...

Choosing a machine from Roth Composite Machinery means choosing the best quality. If a problem does ever occur, however, you can rely on the global service offered by Roth Composite Machinery – no matter where you are.

Roth Composite Machinery Pleating & Coating

- > High flexibility
- > Sophisticated and innovative technology
- > Identification with own products
- > Tailored, custom solutions
- > Solid technology and high reliability
- > Stable and durable machines
- > Fast and un-bureaucratic service
- > In-depth, customized consultation

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