

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 process



Roth Composite Machinery is a worldwide acting company having experience in the special machinery design of more than 100 years. The company develops, designs and manufactures machines and production lines for the filter industry. Its extensive product range includes mechanically and servo-motor controlled knife pleating machines as well as rotary pleating machines and minipleat systems.

The manufacturer is known for first-class product quality and powerful engineering, as well as fast and excellent service, ensured by a global network of representatives. The knife pleating and rotary machines are available for all standard working widths and pleat heights. One of the company's key strengths is the application-specific design and customization of machines to meet customer requirements. Additionally, optional peripheral equipment such as unwinding units and cross-cutters are available.

As part of the family-owned Roth Industries, which comprises various companies and around 1,400 employees worldwide, Roth Composite Machinery operates in the business areas of Pleating & Coating, Filament Winding & Prepreg and Brushes & Brooms.

■ 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!



■ 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.

Product range for the business fields

Pleating

- > Servo-driven knife pleating machines
- > Minipleat systems
- > Rotary pleating equipment
- > Unwind systems
- > Devices for slitting or cross-cutting
- > Custom solutions

Coating

- > High performance flotation dryers
- > Rewinders and unwinders
- > Applicator and impregnating units
- > Laminating stations
- > Material accumulators



Pleating

Machine range



■ Unwind system AR4

- > 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



■ Servo knife pleating machine MFM-3-S

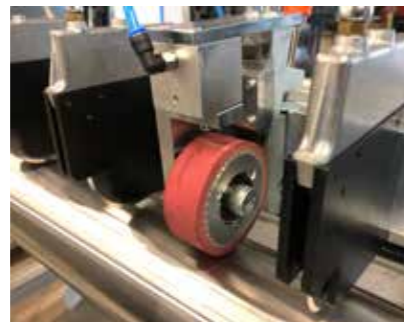
- > High pleating speeds thanks to mass optimization
- > Servo-driven knife movements
- > Controlled via industrial PC with touch panel
- > Fast and flexible program changes
- > For all common working widths and pleating heights
- > Optionally, a dust package and a cooling unit or a OPC-UA can be integrated



Option inline slitter



Option perforation



Detailed information on our pleating machines can be found at www.roth-composite-machinery.com

■ Minipleat system MPS

- > 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 minipleat products are produced, the unwinder and pleating machine, for example, can be used for other production tasks.



Module 1: Unwind system

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

Module 3: Minipleat system MPS

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



Filter manufacturing line with rotary pleating machine RFM

- > 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
- > Curing ovens optionally with post-combustion and heat recirculation
- > Additional modules such as web edge guiding, suction systems, edge trimming and its disposal or even hotmelt systems are optionally available



Optional additional aggregates (excerpt)



Scoring unit



Side sealing



Edge guiding system



Curing oven

Coating Machine range



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

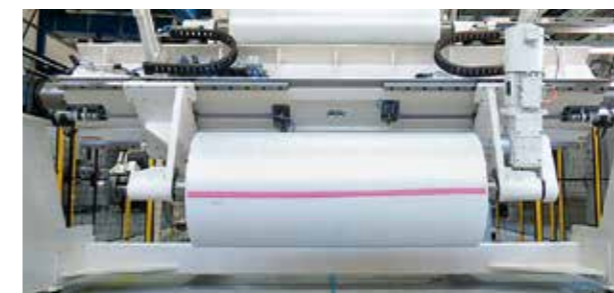
- > Unwinding
- > Laminating
- > Drying
- > Fixing
- > Embossing
- > Coating
- > Cutting
- > Rewinding

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 – a reliable partner worldwide

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

■ 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

MADE IN GERMANY

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